

**SKRIPSI**

**ANALISA STRUKTUR PELAT CENDAWAN (*FLAT SLAB*) TANPA  
BALOK PADA GEDUNG HOTEL IJEN PADJAJARAN SUITES HOTEL  
RESORT AND CONVENTION HALL MALANG**



**Disusun Oleh :**

**DAVID SAFIUDIN**

**10.21.050**

**PROGRAM STUDI TEKNIK SIPIL S-1  
FAKULTAS TEKNIK SIPIL DAN PERENCANAAN  
INSTITUT TEKNOLOGI NASIONAL  
MALANG**

**2014**

**LEMBAR PENGESAHAN**

**ANALISA STRUKTUR PELAT CENDAWAN (FLAT SLAB) TANPA  
BALOK PADA GEDUNG HOTEL IJEN PADJAJARAN SUITES  
HOTEL RESORT AND CONVENTION HALL MALANG  
SKRIPSI**

*Dipertahankan Dihadapan Majelis Penguji Sidang Skripsi*

*Jenjang Strata Satu (S-1)*

*Pada Hari : Selasa*

*Tanggal : 19 Agustus 2014*

*Dan Diterima Untuk Memenuhi Salah Satu Persyaratan  
Guna Memperoleh Gelar Sarjana Teknik*

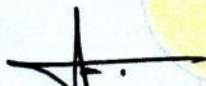
**Disusun Oleh :**

**David Safiudin**

**10.210.50**

**Disahkan Oleh :**

**Ketua**



**(Ir. A. Agus Santosa, MT)**

**Sekretaris**



**(Lila Ayu Ratna Winanda, ST, MT.)**

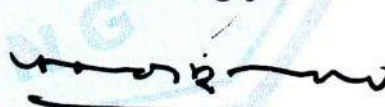
**Anggota Penguji :**

**Dosen Penguji I**



**(Ir. A. Agus Santosa, MT)**

**Dosen Penguji II**



**(Ir. H. Sudirman Indra, MSc)**

**PROGRAM STUDI TEKNIK SIPIL S-1  
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**LEMBAR PERSETUJUAN**

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*Disusun dan Diajukan Sebagai Salah Satu Syarat Untuk Memperoleh Gelar Sarjana Teknik  
Sipil S-1*

*Institut Teknologi Nasional Malang*

**Disusun Oleh :**

**DAVID SAFIUDIN**

**10.21.050**

**Menyetujui :**

**Dosen Pembimbing I**



**(Ir. Bambang Wedvantadji, MT)**

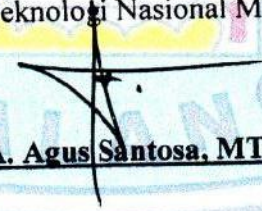
**Dosen Pembimbing II**



**(Ir. Ester Priskasari, MT)**

**Mengetahui,**

**Ketua Program Studi Teknik Sipil S-1  
Institut Teknologi Nasional Malang**



**(Ir. A. Agus Santosa, MT.)**

**PROGRAM STUDI TEKNIK SIPIL S-1  
FAKULTAS TEKNIK SIPIL DAN PERENCANAAN  
INSTITUT TEKNOLOGI NASIONAL MALANG**

**2014**



**INSTITUT TEKNOLOGI NASIONAL**  
**FAKULTAS TEKNIK SIPIL DAN PERENCANAAN**  
**PROGRAM STUDI TEKNIK SIPIL S-1**  
Jl. Bendungan Sigura-gura No.2 Telp.(0341) 551431 Malang 65145

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## **PERNYATAAN KEASLIAN SKRIPSI**

Saya yang bertanda tangan di bawah ini:

Nama : **David Safiudin**  
NIM : **10.21.050**  
Program Studi : **TEKNIK SIPIL S-1**  
Fakultas : **TEKNIK SIPIL DAN PERENCANAAN**

Menyatakan dengan sesungguhnya bahwa skripsi saya dengan judul:

***“ANALISA STRUKTUR PELAT CENDAWAN (FLAT SLAB) TANPA BALOK PADA GEDUNG HOTEL IJEN PADJAJARAN SUITES HOTEL RESORT AND CONVENTION HALL MALANG”*** adalah benar-benar merupakan hasil karya sendiri, bukan duplikat serta tidak mengutip atau menyadur seluruhnya karya orang lain kecuali disebut dari sumber aslinya yang tercantum dalam daftar pustaka.

Pernyataan ini saya buat dengan sebenarnya tanpa ada paksaan dari pihak manapun.

Malang, 21 Agustus 2014  
Yang membuat pernyataan,

**( David Safiudin )**

**“ANALISA STRUKTUR PELAT CENDAWAN (FLAT SLAB) TANPA BALOK PADA GEDUNG HOTEL IJEN PADJAJARAN SUITES HOTEL RESORT AND CONVENTION HALL MALANG”**. Skripsi, Jurusan Teknik Sipil S-1, Institut Teknologi Nasional Malang. David Safiudin, 10.21.050, 2014. Pembimbing: (I) Ir. Bambang Wedyantadji, MT. (II) Ir. Ester Priskasari, MT.

### **ABSTRAKSI**

Pada umumnya arsitek menginginkan desain struktur gedung dengan jarak antar kolom yang cukup lebar, tetapi tinggi tiap lantai gedung tidak terlalu tinggi hanya berkisar 4 -5 meter hal ini dapat diatasi dengan sistem struktur Pelat Cendawan (*flat slab*). *Flat slab* merupakan konstruksi beton tulangan dua arah yang hanya memiliki unsur horizontal berupa pelat tanpa balok dan ditahan kolom – kolom saja. Pada penyusunan skripsi ini pelat beton bertulang yang ditumpu secara langsung oleh kolom – kolom beton tanpa memakai balok balok perantara. Pelat dapat mempunyai tebal konstan seluruhnya atau dapat dipertebal didaerah kepala kolom dengan suatu pelat tiang (*drop panel*). Kolom juga dapat mempunyai penampang konstan atau dibesarkan untuk membentuk suatu kolom (*column head*). Pertebalan pelat bermanfaat dalam mengurangi tegangan geser pons yang mungkin terjadi ditimbulkan kolom terhadap pelat.

Tujuan dalam penulisan skripsi ini adalah untuk dapat mengetahui bagaimana merencanakan struktur pelat cendawan dengan penebalan pelat (*drop panel*) dan penulangan penebalan pelat cendawan yang sesuai dengan peraturan SNI – 03 – 2847 -2002.

Sistem pelat cendawan (*flat slab*) tegangan geser yang berbahaya adalah tegangan geser arah pons dikarenakan semua beban lantai dipindahkan ke kolom. Sehingga diusahakan agar tegangan yang timbul kecil, dengan jalan memberi kepala kolom (*drop panel*). Hasil Analisa momen yang perlu diperhatikan adalah momen tumpuan (*Mt*) dan momen lapangan (*Ml*). Dalam skripsi ini untuk mengurangi geser pons diberikan penambahan besi ditengah tulangan, diambil 45° ditarik dari tengah kolom dan diarahkan ke ujung drop panel paling tepi untuk mengurangi momen akibat (*Mtx*) dan (*Mty*). Dalam penggunaan konstruksi struktur pelat tanpa balok hendaknya dikombinasikan dengan dinding geser dalam tinjauannya terhadap gaya gempa yang disebabkan oleh gempa guna untuk memenuhi syarat keamanan dan kenyamanan suatu bangunan.

Kata Kunci: Pelat Cendawan, Drop Panel

## KATA PENGANTAR

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Dalam menulis laporan ini penulis menyadari bahwa terdapat banyak kekurangan, hal ini dikarenakan terbatasnya kemampuan penulis. Maka penulis mengharapkan kritik dan saran yang bersifat membangun dari para pembaca demi kesempurnaan laporan ini.

Malang, 21 Agustus 2014

Penulis

## LEMBAR PERSEMBAHAN

Berhenti di kurang lebih 47 halaman dan beberapa lampiran, bukanlah perjalanan sederhana. Melawan rasa ngantuk dan duduk belajar , setelah hingga dinihari mata terjaga adalah perjalanan panjang. Kulakukan untuk berjuang sebagai pelaksanaan kata-kata dan pembuktian keinginan. Ada hal yang paling lama saya susun di skripsi. Bukan proposal, bukan tiap Bab, atau juga hasil penelitian. Tapi adalah lembar persembahan. Ya, lembar yang bagi kebanyakan orang terlihat sepele. Dari awal saya udah mau susun kata demi kata di lembar persembahan ini, tapi entahlah, saya bingung apa yang harus saya tulis.

### PERSEMBAHAN

Untuk tiap tawa yang tak ternilai

Untuk tiap tangis yang terhapus

Untuk tiap jatuh dan banggunya

Untuk tiap peluang ditengah putus asa

Untuk tiap doa dan dukungan

Sebuah mini mahakarya ku persembahkan kepada:

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waktuku yang tak banyak di rumah.

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dalam perjalanan penuh keyakinan.

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*“ Lebih Baik menyalakan lilin dari pada bergumam dalam kegelapan ”*

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“ Bunga-bunga kecil ini ,yang tumbuh di pelataran aksi ,siap mekar dalam peduli selalu setia pada mentari”Sepenggal lagu yang mengingatkan pada sang panji Hijau Hitam.Bagian demi bagian, setiap bagian yang penuh dengan cerita. Setiap bagian yang penuh dengan

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*“ Berdiri, berlari lakukan semau kalian asal bertanggung jawab dan pemikiran kalian sendiri!!!!”*

Lembar ini mengingatkan saya akan banyaknya tangan yang membantu hingga akhirnya skripsi ini selesai, betapa banyak mulut yang dengan ikhlas berdoa sehingga semuanya terasa lebih mudah, dan betapa banyaknya curahan kasih sayang yang mengobarkan semangat untuk menyelesaikan mini mahakarya ini. Saya yakin, jika saya berusaha untuk membalasnya niscaya balasan yang saya berikan tak setimpal dengan apa yang telah mereka berikan. Karena bantuan dan dorongan yang mereka berikan tak ternilai harganya. Semoga Tuhan memberikan balasan yang lebih kepada mereka yang dengan ikhlasnya membantu saya. Sehingga saya persembahkan mini mahakarya ini kepada mereka yang telah berjasa dalam perolehan gelar sarjana teknik ini. Terimakasih...

*“Tuhan tak pernah terburu-buru, Ia selalu tepat waktu”*  
(David Safiudin, 2010)

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# BAB I PENDAHULUAN

## 1.1. Latar Belakang

Pada umumnya arsitek menginginkan desain struktur gedung dengan jarak antar kolom yang cukup lebar, tetapi tinggi tiap lantai gedung tidak terlalu tinggi hanya berkisar 4 -5 meter hal ini dapat diatasi dengan sistem struktur *flat slab*. *Flat slab* merupakan konstruksi beton tulangan dua arah yang hanya memiliki unsur horizontal berupa pelat tanpa balok dan ditahan kolom – kolom saja.

Pada struktur gedung Ijen Padjajaran Suites Hotel Resort And Convention Hall pada kondisi sebenarnya menggunakan struktur beton bertulang yang terdiri dari pelat lantai dengan balok – balok utama dan balok – balok anak sebagai unsur horizontalnya dan kolom –kolom untuk seluruh lantai sebagai unsur vertikal. Pada penyusunan skripsi ini pelat beton bertulang yang ditumpu secara langsung oleh kolom – kolom beton tanpa memakai balok balok perantara. Pelat dapat mempunyai tebal konstan seluruhnya atau dapat dipertebal didaerah kepala kolom dengan suatu pelat tiang ( drop panel ). Kolom juga dapat mempunyai penampang konstan atau dibesarkan untuk membentuk suatu kolom ( column head ). Pertebalan pelat bermanfaat dalam mengurangi tegangan geser pons yang mungkin terjadi ditimbulkan kolom terhadap pelat.

## **1.2. Rumusan Masalah**

Berdasarkan dari uraian diatas maka dapat dirumuskan masalah yang dapat dibahas yaitu:

1. Berapa besar penebalan plat ( drop panel ) dalam perencanaan struktur Pelat Cendawan ( flat slab ) ?
2. Bagaimana analisa dan gambar penulangan penebalan plat (drop panel) yang digunakan ?
3. Bagaimana analisa dan gambar penulangan Pelat Cendawan (flat slab) yang digunakan ?

## **1.3. Maksud dan Tujuan**

Maksud dan tujuan dilakukan analisa ini adalah sebagai berikut :

1. Untuk mengetahui seberapa besar penebalan plat (drop panel ) dalam perencanaan struktur flat slab.
2. Untuk mengetahui analisa dan gambar penulangan penebalan plat (drop panel).
3. Untuk mengetahui analisa dan gambar penulangan Pelat Cendawan (flat slab) yang digunakan.

## **1.4. Batasan Masalah**

Dalam pembahasan studi “ANALISA STRUKTUR PELAT CENDAWAN (FLAT SLAB) TANPA BALOK “,maka penulis memberi batasan masalah yang akan dibahas dalam tulisan ini,yaitu :

1. Perencanaan penebalan plat (drop panel ) dalam perencanaan struktur flat slab.



2. Analisa penulangan penebalan plat (drop panel) dan gambar pendetailan penulangan.
3. Analisa penulangan Pelat Cendawan (flat slab) dan gambar pendetailan penulangan Pelat Cendawan (flat slab).

Peraturan yang digunakan :

1. Peraturan Pembebanan Indonesia untuk Gedung ( PPIUG 1987 ).
2. Tata cara perencanaan struktur bangunan gedung (SNI 03 – 2847 – 2002).
3. Program yang digunakan Staad Pro 2004

## BAB II

### LANDASAN TEORI

#### 2.1 Tinjauan Umum Struktur Pelat

Didalam konstruksi beton bertulang plat merupakan sebuah bidang datar horizontal yang lebar dan permukaan atas dengan bawahnya sejajar atau mendekati sejajar yang umumnya dicor menjadi kesatuan monolit atau terangkai dengan gelagar penumpu ( balok ), dinding beton bertulang, atau tertumpu secara langsung pada kolom – kolom.

Pelat merupakan struktur bidang (permukaan) yang lurus, datar dan tidak melengkung yang tebalnya jauh lebih kecil dibanding dengan dimensi yang lain. Geometri suatu pelat bisa dibatasi oleh garis lurus atau garis lengkung. Ditinjau dari statika, kondisi tepi pelat bisa bebas, tumpuan sederhana, jepit, jepit elastis. Beban statis atau dinamis yang dipikul pelat umumnya tegak lurus permukaan pelat (Szilard,1974).

Pelat adalah elemen struktur yang akan dikenai beban layan pertama kali sebelum terdistribusi ke elemen struktur yang lain. ( Nasution,Amriansyah.2009).

Sistem penel pelat tanpa balok lantai dinamakan ada dua tipe dari lantai cendawan ( *flat slab* ) :

- a) Pelat datar ( *flat plate* ), dengan pelat lantai dan kolom tidak terdapat kepala kolom.
- b) Lantai Cendawan ( *flat slab* ), terdapat kepala kolom dan *drop panel* dipertemuan pelat dan kolom.( Nasution,Amriansyah.2009).

## 2.2 Sistem Pelat

### 2.2.1 Sistem Pelat satu arah

Pelat satu arah adalah suatu pelat beton struktural yang perbandingan antara bentang panjang ( $L_y$ ) dengan bentang yang pendek ( $L_x$ ), sama atau lebih besar dari dua. Pada pelat ini aksi struktur utamanya adalah satu arah dan beban-beban yang ditahan oleh pelat dalam arah tegak lurus terhadap gelagar-gelagar penunjang (perletakan) pada dua sisi yang berlawanan dari panel persegi. Akibat dari aksi struktur pelat satu arah ini, maka permukaan yang melendut dari sistem pelat satu arah mempunyai kelendutan tunggal. Sistem pelat satu arah bisa terjadi pada pelat tunggal maupun pelat menerus asalkan perbandingan panjang bentang kedua sisi pelat terpenuhi.

$$\text{Persamaan : } \frac{L_y}{L_x} = 2$$

### 2.2.2 Sistem Pelat dua arah

Pelat dua arah merupakan suatu pelat beton struktural yang perbandingan antara panjang dan bentang pendek kurang dari dua. Aksi struktur utama dari pelat ini adalah dua arah, dimana beban yang terjadi disalurkan pada kedua arah. Akibat dari aksi struktur yang sedemikian maka permukaan pelat akan mengalami lendutan ganda.

$$\text{Persamaan : } \frac{L_y}{L_x} = 2$$

## 2.3 Pembatasan tebal pelat

### 2.3.1 Persyaratan Tebal Pelat

Peraturan SNI 03 – 2847 – 2002 pasal 11.5.3 memberikan persyaratan tebal minimum yang dapat digunakan dalam perencanaan sistem lantai dua arah dalam pengendalian lendutan sebagai berikut :

1. Tebal minimum pelat tanpa balok interior yang menghubungkan tumpuan – tumpuan mempunyai rasio bentang panjang terhadap bentang pendek yang tidak lebih dari dua, harus memenuhi ketentuan dari tabel 2.3.1.1 dan tidak boleh kurang dari :
  - a. Pelat tanpa penebalan (*drop panel*).....120 mm
  - b. Pelat dengan penebalan.....100 mm

Tegangan leleh $f_y^a$ MPa	Tanpa penebalan <sup>b</sup>			Dengan penebalan <sup>b</sup>		
	Panel luar		Panel dalam	Panel luar		Panel dalam
	Tanpa balok pinggir	Dengan balok pinggir <sup>c</sup>		Tanpa balok pinggir	Dengan balok pinggir <sup>c</sup>	
300	$l_n / 33$	$l_n / 36$	$l_n / 36$	$l_n / 36$	$l_n / 40$	$l_n / 40$
400	$l_n / 30$	$l_n / 33$	$l_n / 33$	$l_n / 33$	$l_n / 36$	$l_n / 36$
500	$l_n / 28$	$l_n / 31$	$l_n / 31$	$l_n / 31$	$l_n / 34$	$l_n / 34$

<sup>a</sup> Untuk tulangan dengan tegangan leleh di antara 300 MPa dan 400 MPa atau di antara 400 MPa dan 500 MPa, gunakan interpolasi linear.  
<sup>b</sup> Penebalan panel didefinisikan dalam 15.3(7(1)) dan 15.3(7(2)).  
<sup>c</sup> Pelat dengan balok di antara kolom-kolomnya sepanjang tepi luar. Nilai  $\alpha$  untuk balok tepi tidak boleh kurang dari 0,8.

**Tabel 2.3.1.1 Tebal minimum dari pelat tanpa balok interior (Sumber :**

**SNI 03-2847-2002:66 )**

1. Pelat dengan tebal kurang dari tebal minimum yang ditetapkan dalam butir 1 boleh digunakan bila dapat ditunjukkan dengan perhitungan lendutan yang terjadi tidak melebihi batas lendutan yang ditetapkan dalam tabel 2.3.1.2 lendutan tersebut harus ditentukan dengan memperhitungkan pengaruh dari ukuran dan bentuk panel, kondisi tumpuan, dan keadaan kekangan pada sisi panel.

Jenis komponen struktur	Lendutan yang diperhitungkan	Batas lendutan
Atap datar yang tidak menahan atau tidak disatukan dengan komponen nonstruktural yang mungkin akan rusak oleh lendutan yang besar	Lendutan seketika akibat beban hidup ( $L$ )	$\frac{\ell^2}{180}$
Lantai yang tidak menahan atau tidak disatukan dengan komponen nonstruktural yang mungkin akan rusak oleh lendutan yang besar	Lendutan seketika akibat beban hidup ( $L$ )	$\frac{\ell}{360}$
Konstruksi atap atau lantai yang menahan atau disatukan dengan komponen nonstruktural yang mungkin akan rusak oleh lendutan yang besar	Bagian dari lendutan total yang terjadi setelah pemasangan komponen nonstruktural (jumlah dari lendutan jangka panjang, akibat semua beban tetap yang bekerja, dan lendutan seketika, akibat penambahan beban hidup) <sup>c</sup>	$\frac{\ell^2}{480}$
Konstruksi atap atau lantai yang menahan atau disatukan dengan komponen nonstruktural yang mungkin tidak akan rusak oleh lendutan yang besar.		$\frac{\ell^2}{240}$

<sup>a</sup> Batasan ini tidak dimaksudkan untuk mencegah kemungkinan penggenangan air. Kemungkinan penggenangan air harus diperiksa dengan melakukan perhitungan lendutan, termasuk lendutan tambahan akibat adanya penggenangan air tersebut, dan mempertimbangkan pengaruh jangka panjang dari beban yang selalu bekerja, lawan lendut, toleransi konstruksi dan keandalan sistem drainase.

<sup>b</sup> Batas lendutan boleh dilampaui bila langkah pencegahan kerusakan terhadap komponen yang ditumpu atau yang disatukan telah dilakukan.

<sup>c</sup> Lendutan jangka panjang harus dihitung berdasarkan ketentuan 11.5(2(5)) atau 11.5(4(2)), tetapi boleh dikurangi dengan nilai lendutan yang terjadi sebelum penambahan komponen non-struktural. Besarnya nilai lendutan ini harus ditentukan berdasarkan data teknis yang dapat diterima berkenaan dengan karakteristik hubungan waktu dan lendutan dari komponen struktur yang serupa dengan komponen struktur yang ditinjau.

<sup>d</sup> Tetapi tidak boleh lebih besar dari toleransi yang disediakan untuk komponen non-struktur. Batasan ini boleh dilampaui bila ada lawan lendut yang disediakan sedemikian hingga lendutan total dikurangi lawan lendut tidak melebihi batas lendutan yang ada.

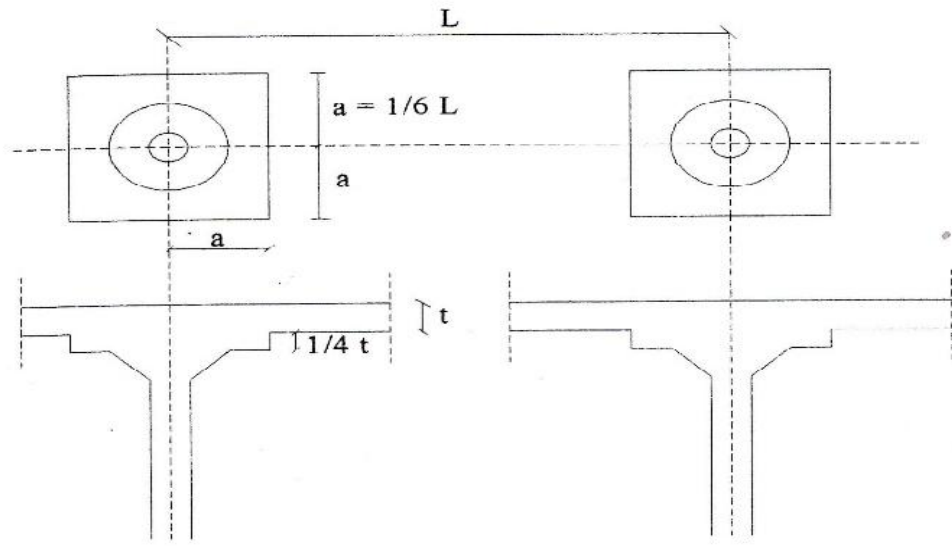
**Tabel 2.3.1.2 Lendutan ijin maksimum (Sumber : SNI 03-2847-2002:65 )**

2. Tepi panel yang tidak menerus jika ada balok tepi harus mempunyai rasio kekakuan tidak kurang dari 0,8 dan tebal minimum pelat dengan balok yang ditetapkan harus dianikkan atau dipertebal paling sedikit 10% pada panel tepi yang tidak menerus.

#### **2.4 Drop Panel**

Pertebalan pelat *drop panel* bermanfaat untuk mengurangi jumlah tulangan momen negatif yang melewati kolom dari suatu pelat datar. Ukuran dari pertebalan pelat menurut SNI 03 – 2847 – 2002 pasal 15.3.7 adalah sebagai berikut :

1. Penebalan panel setempat disediakan pada kedua arah dari pusat tumpuan sejarak tidak kurang dari  $1/6$  jarak pusat ke pusat tumpuan pada arah yang ditinjau.
2. Tebal penebalan panel setempat tidak boleh kurang daripada  $1/4$  tebal pelat diluar daerah penebalan panel setempat.
3. Pada perhitungan tulangan pelat yang diperlukan, tebal penebalan setempat tidak boleh diambil lebih daripada  $1/4$  jarak dari tepi panel setempat ketepi kolom atau tepi kepala kolom.



**Gambar 2.4. Persyaratan penebalan pelat ( Sumber : Sudarmoko,1996 :35)**

## 2.5 Penyaluran Momen dalam sambungan pelat dan kolom

Bila beban gravitasi , angin , gempa atau beban lateral menyebabkan terjadinya penyaluran momen tidak berimbang  $M_u$  antara pelat dan kolom, maka sebagian momen tidak berimbang tersebut yaitu  $\gamma_f M_u$ , harus disalurkan sebagai lentur mengikuti ketentuan dan sisanya, yaitu  $\gamma_v M_u$  disalurkan melalui eksentrisitas geser terhadap pusat penampang kritis yang didefinisikan dalam.

$$\gamma_v = (1 - \gamma_f)$$

Tegangan geser yang terjadi akibat penyaluran momen melalui eksentrisitas geser harus dianggap bervariasi linier terhadap pusat penampang kritis, Tegangan geser maksimum akibat gaya geser dan momen terfaktor tidak boleh melebihi  $V_n$  :

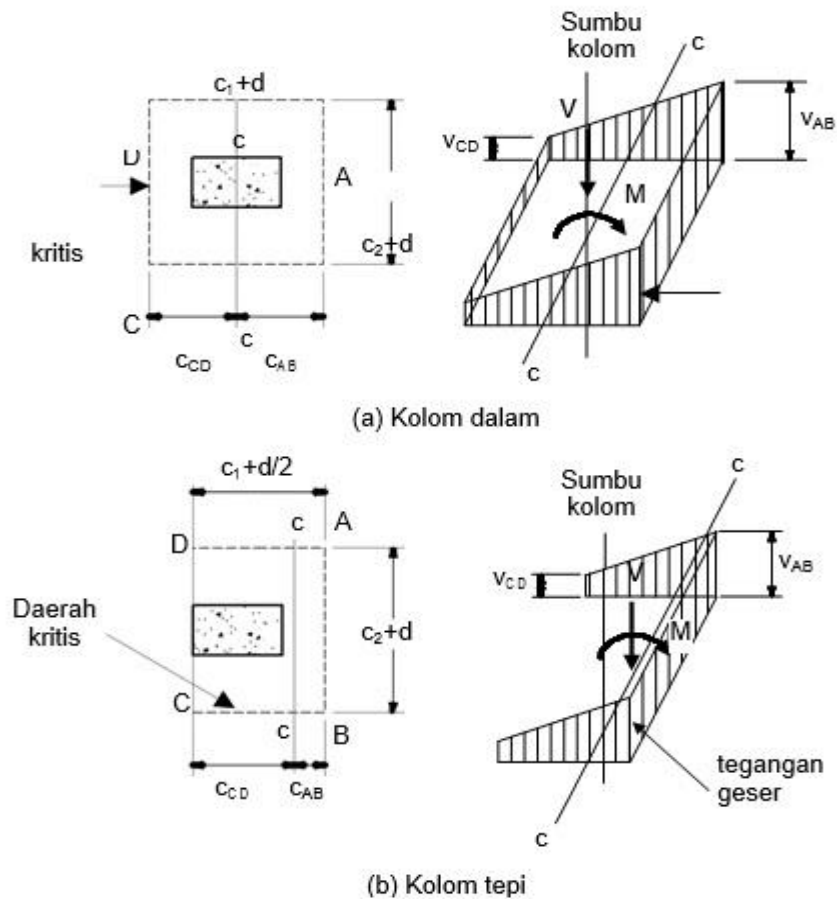
1. Untuk komponen struktur tanpa tulangan geser:

$$V_n = V_c / (b_o d)$$

2. Untuk komponen struktur yang menggunakan tulangan geser selain dari profil penahan

$$V_n = (V_C + V_s) / (b_o d)$$

3. Bila tulangan geser yang digunakan terdiri dari penahan geser yang terbuat dari profil baja I atau kanal, maka jumlah total tegangan-tegangan geser yang bekerja pada penampang kritis  $(1/3) \bar{f}_c$



**Gambar 2.5.1 Distribusi tegangan Geser**

(SNI 03 –2847 – 202 : Hal 116)



## 2.6 Penulangan Pelat

1. Luas tulangan pelat pada masing-masing arah dari sistem pelat dua arah ditentukan dengan meninjau momen-momen pada penampang kritis tapi tidak boleh kurang dari pada yang disyaratkan.
2. Spasi tulangan pada penampang kritis tidak boleh lebih daripada dua kali tebal pelat kecuali untuk bagian pelat yang berada pada daerah rongga atau rusuk. Pada bagian pelat di atas daerah rongga, tulangan diadakan syaratnya.
3. Tulangan momen positif yang tegak lurus tepi tak-menerus harus diteruskan hingga mencapai tepi pelat dan ditanam, dapat dengan kaitan, minimum sepanjang 150 mm ke dalam balok tepi, kolom, atau dinding.
4. Tulangan momen negatif yang tegak lurus tepi tak-menerus harus dibengkokkan atau diangkur pada balok tepi, kolom, atau dinding, sesuai dengan ketentuan mengenai panjang penanaman pada pasal 14.
5. Bila pelat tidak memiliki balok tepi atau dinding pada tepi tak-menerus, atau pada pelat yang membentuk kantilever pada tumpuan maka pengankuran tulangan harus dilakukan didalam pelat itu sendiri.
6. Pada pelat dengan balok yang membentang di antara kedua tumpuannya, dan

$$\alpha = \frac{E_c I_c b}{E_c I_c p} > 1,0$$

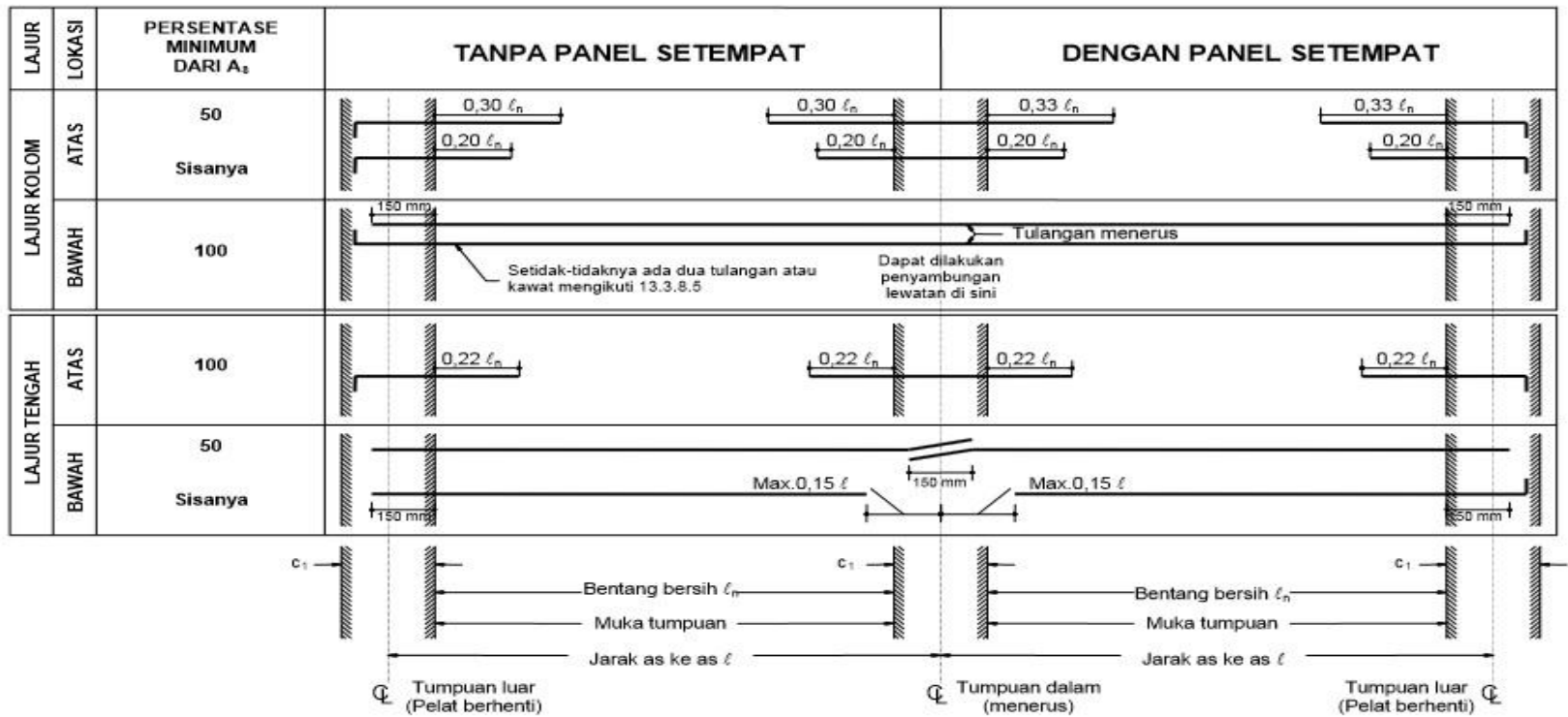
dimana subskrip  $b$  merujuk pada balok dan  $p$  merujuk pada pelat, harus disediakan tulangan khusus di sisi atas dan bawah bagian pelat yang berada di sudut luar, sebagai berikut: (1) Tulangan khusus pada sisi atas dan bawah pelat harus cukup untuk memikul momen positif maksimum (per satuan lebar) pada pelat. (2) Untuk tulangan yang berada di sisi atas, vektor momen tersebut harus dianggap bekerja tegak lurus garis diagonal pada sudut pelat; sedangkan untuk tulangan yang berada di sisi bawah, vektor momen tersebut harus dianggap bekerja sejajar garis diagonal. (3) Tulangan tersebut harus disediakan pada masing-masing arah sejarak seperlima bentang terpanjang dari sudut pelat yang ditinjau. (4) Tulangan khusus tersebut dipasang dalam bentuk lajur paralel dengan diagonal untuk sisi atas dan tegak lurus diagonal untuk sisi bawah. Sebagai alternatif, tulangan tersebut dapat dipasang dalam dua rangkap paralel dengan tepi-tepi pelat, di sisi atas dan di sisi bawah dari pelat tersebut.

7. Bila digunakan penebalan panel setempat untuk mereduksi jumlah tulangan momen negatif di daerah kolom maka dimensi penebalan panel setempat harus sesuai dengan hal hal berikut ini: (1) Penebalan panel setempat disediakan pada kedua arah dari pusat tumpuan sejarak tidak kurang daripada seperenam jarak pusat-ke-pusat tumpuan pada arah yang ditinjau. (2) Tebal penebalan panel setempat tidak boleh kurang daripada seperempat tebal pelat diluar daerah penebalan panel setempat. (3) Pada perhitungan tulangan pelat yang diperlukan, tebal penebalan panel setempat tidak boleh

diambil lebih daripada seperempat jarak dari tepi panel setempat ke tepi kolom atau tepi kepala kolom.

8. Detail tulangan pada pelat tanpa balok:

- (1) Sebagai tambahan terhadap persyaratan 15.3, tulangan pada pelat tanpa balok harus diteruskan dengan panjang minimum.
- (2) Bila panjang bentang yang bersebelahan tidak sama maka penerusan tulangan momen negatif diluar bidang muka tumpuan seperti yang dipersyaratkan harus didasarkan pada bentang yang lebih panjang.
- (3) Tulangan miring hanya diperkenankan bila perbandingan tinggi terhadap bentang memungkinkan untuk digunakannya tulangan dengan kemiringan  $45^\circ$ .



Gambar 2.6.1 Detail tulangan pada pelat tanpa balok

## 2.7 Penulangan Lentur Pelat

Penulangan lentur pelat dapat dilakukan apabila sudah ditetapkan tebal pelat ( $h$ ), mutu beton ( $f_c'$ ), mutu baja ( $f_y$ ) dan momen rencana ( $M_R$ ). Prosedur hitungan dapat disusun seperti langkah – langkah sebagai berikut :

1. Menentukan tinggi efektif ( $d$ ) dari tebal pelat yang sudah ditentukan.
2. Menentukan lebar tinjauan pelat ( $b$ ), biasanya ditinjau tiap satu meter lebar.
3. Menghitung harga  $M_u/bd^2$  dalam satuan  $\text{Kn/m}^2$ , dimana harga  $M_u = M_r / \dots$ .
4. Membaca rasio tulangan ( $\rho$ ) dan harga  $M_u / bd^2$ .
5. Menghitung  $A_s$  dengan  $A_s = \rho b d 10^6 \text{ mm}^2$  bila  $b$  dan  $d$  dalam mm atau  $A_s = b d 10^4 \text{ cm}^2$  bila  $b$  dan  $d$  dalam m.
6. Periksa apakah  $\rho_{\min} < \rho < \rho_{\max}$ .
7. Pilih tulangan dan jarak antar tulangan berdasarkan persyaratan jarak antar tulangan tidak boleh kurang dari 25 mm.

(Sumber, Sudarmoko 1996 : 65 )

## 2.8 Analisis Kapasitas Lentur

Hitungan analisa kapasitas lentur tampang pelat dapat dilakukan jika diketahui tinggi efektif pelat  $d$ , mutu beton  $f_c$ , mutu baja  $f_y$ , luas dan diameter tulangan .Prosedur hitungan kapasitas lentur dapat disusun seperti langkah – langkah berikut :

1. Menentukan lebar tinjauan pelat  $b$  , biasanya ditinjau tiap satu meter lebar.
2. Menentukan luas total tulangan yang ada ( $A_{s\ ada}$  ) per meter lebar yang ditinjau.
3. Menentukan harga  $A = \frac{A_{s\ ada} f_y}{0,85 f_c b}$
4. Menhitung harga Momen  $M_u$
5. Menentukan harga momen nominal ( $M_n$ )

$$M_n = M_u > M_{rencana} (M_R)$$

(Sumber, Sudarmoko 1996 : 65 - 66)

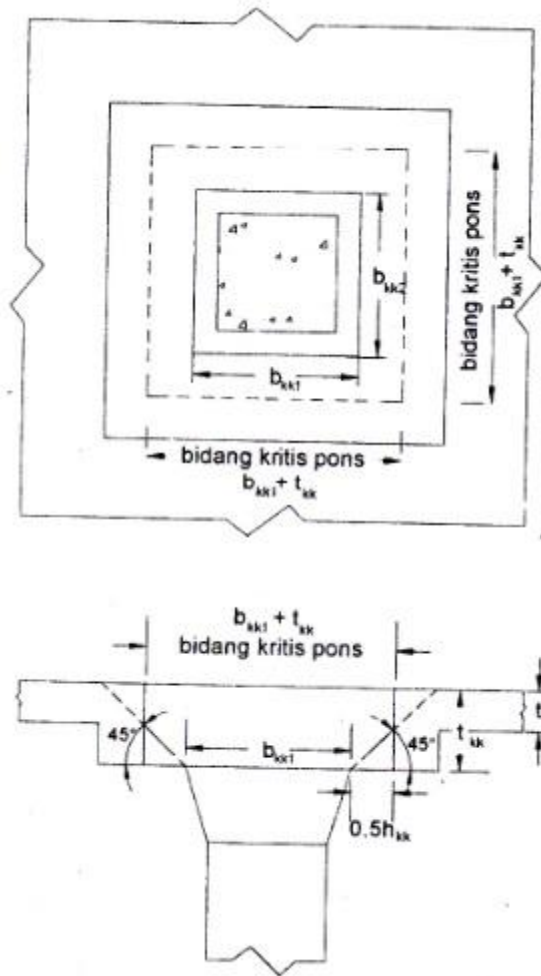
## 2.9 Kekuatan Geser didalam sistem Lantai Dua - arah

Analisa tegangan geser pada lantai dibedakan menurut sistem struktur lantai dibedakan menurut sistem struktur lantai :

1. Analisa gaya lintang bila pelat mempunyai balok.
2. Analisa pons apabila struktur lantai hanya terdiri dari pelat dan kolom saja.

Untuk penulangan pons, mengingat mekanisme yang sulit maka tegangan pons yang terjadi disederhanakan sebagai berikut. Penentuan tegangan  $v$  untuk mengetahui perlu atau tidaknya penulangan pons, atau perlu atau tidak penebalan pelat. Kapasitas geser pons harus melebihi gaya pons beban terfaktor.

Tegangan pons :



## 2.9 Bidang Kritis Pons

Untuk kolom persegi :

$$v = \frac{Pud\_Pons}{2 * b_{kk1} + t_{kk} \quad b_{kk2} + t_{kk} \quad * t_{kk}}$$

Untuk kolom bulat :

$$v = \frac{Pud\_Pons}{\pi * (b_{kk1} + t_{kk}) * t_{kk}}$$

$Pud = \left(1 + \frac{2}{\beta_c}\right) \frac{f_c'}{6} * \text{luas bidang geser pons atau}$

$Pud = \frac{1}{12} \left(\frac{a_s d}{\beta_o} + 2\right) \overline{f_c'} * \text{luas bidang geser pons atau}$

$$P_{ud} = \frac{1}{3} \overline{f_c'} * \text{luas bidang geser pons}$$

c = Perbandingan sisi panjang terhadap sisi pendek kolom, daerah beban terpusat atau reaksi.

s = 40 bagi kolom bagian dalam, 30 bagi kolom bagian tepi, 20 bagi kolom bagian tepi.

Posisi bidang pons didefinisikan sebagai bidang pons sudut, tepi dan tengah. Pada bidang pons sudut dan tepi bekerja gaya pons  $P_{ud}$ , Momen lentur  $M_{ud}$ , dan Torsi  $T_{ud}$ . ( *Nasution, Amriansyah.2009*).

Ket :  $P_{ud\_Pons}$  = Beban dikalikan luas area + berat dinding

bkk = Bidang Kritis Pons

tkk = Tebal drop panel

## 2.10 Tulangan Geser

### 2.10.1 Geser pada pelat

Pelat termasuk komponen struktur lentur tinggi. Untuk perencanaan komponen struktur lentur tinggi terhadap geser harus memenuhi ketentuan sebagai berikut :

1. Perencanaan penampang akibat geser harus didasarkan pada  $V_u$

$V_n$  dimana  $V_u$  adalah gaya geser terfaktor pada penampang yang ditinjau dan  $V_n$  adalah kuat geser nominal yang dihitung dari  $V_n = V_c + V_s$ . Dimana  $V_c$  adalah kuat geser nominal beton dan  $V_s$  adalah kuat nominal tulangan geser.



2. Untuk komponen struktur yang dibebani oleh geser dan lentur saja

$$V_c = ( \overline{f_c'} / 6 ) b d.$$

3. Bila  $V_u > V_c$  maka harus disediakan tulangan geser, bila digunakan tulangan geser yang tegak lurus terhadap sumbu aksial komponen

struktur, maka  $V_s = \frac{A_v f_y d}{s}$  dimana  $A_v$  adalah luas tulangan geser

dalam jarak  $s$ . Jika tulangan yang dipakai tulangan geser dengan

senggang miring  $45^\circ$  maka menggunakan  $V_s = A_v f_y \sin 45^\circ$  (SNI Pasal 13.5.6.5)

4. Kuat gesere  $V_s$  tidak boleh lebih dari  $(2 \overline{f_c'} / 3) b d$ .

(Sumber, Sudarmoko 1996 : 19 )

### 2.10.2 Jenis Tulangan Geser

Tulangan geser dapat terdiri dari :

1. Senggang yang tegak lurus terhadap sumbu aksial komponen struktur.
2. Jaring kawat baja las dengan kawat – kawat yang dipasang tegak lurus terhadap sumbu aksial komponen struktur.
3. Spiral, senggang ikat bundar atau persegi.

Sumber SNI Pasal 13.5.1.1

Untuk komponen struktur tulangan geser dapat juga terdiri dari :

1. Senggang yang membuat sudut  $45^\circ$  atau lebih terhadap tulangan tarik longitudinal.

2. Tulangan longitudinal dengan bagian yang ditekuk untuk mendapatkan sudut  $30^\circ$  atau lebih terhadap tulangan tarik longitudinal.
3. Kombinasi dari sengkang dan tulangan longitudinal yang ditekuk.
4. Spiral.

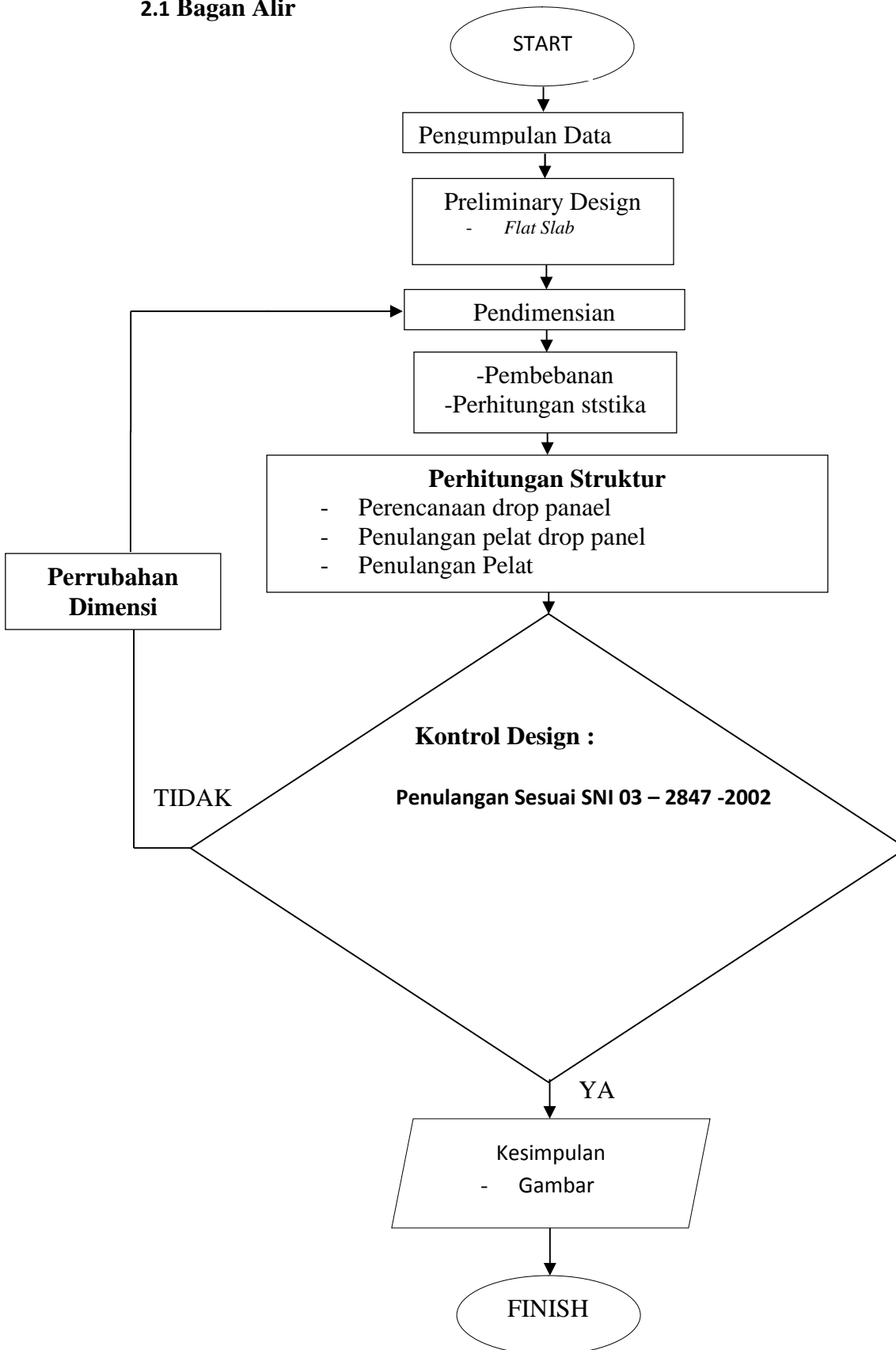
Sumber SNI Pasal 13.5.1.2

### 2.10.3 Batas Spasi tulangan geser

1. Spasi tulangan geser yang dipasang tegak lurus terhadap sumbu aksial komponen struktur beton tidak boleh melebihi  $d/2$  untuk komponen struktur non prategang dan  $0.75h$  untuk komponen struktur prategang, atau 600 mm.
2. Sengkang miring dan tulangan longitudinal yang ditekuk miring harus dipasang dengan spasi sedemikian hingga garis miring  $45^\circ$  ke arah perletakan yang ditarik dari tengah tinggi komponen struktur  $d/2$  ke lokasi tulangan tarik longitudinal harus memotong paling sedikit satu garis tulangan geser.
3. Bila  $V_s$  melebihi  $(1/3) \overline{f_c} bw d$  maka spasi yang diberi maksimum yang diberikan dalam point 1 dan 2 harus dikurangi  $1/2$  nya.

Sumber SNI Pasal 13.5.6

## 2.1 Bagan Alir



## BAB III ANALISA STRUKTUR

### 3.1 Data Perencanaan Gedung

Nama Gedung : Ijen Padjajaran Suites Hotel Resort And Convention  
Hall

Fungsi Gedung : Hotel

Jumlah Lantai : Rencana 15

Rencana Bahan : Beton Bertulang

Bentuk Kolom : Persegi

Zona Gempa : 4

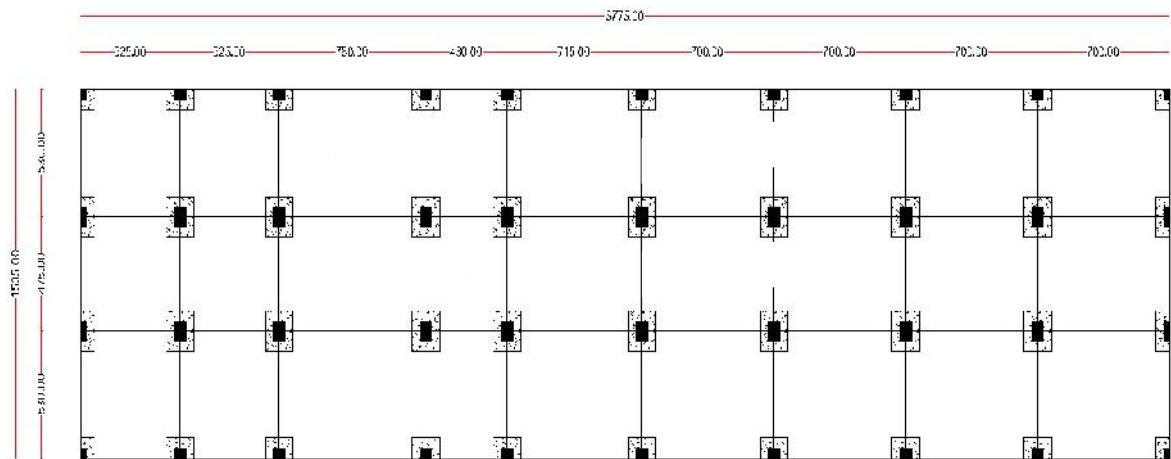
Tegangan Leleh Tulangan Ulir ( $f_y$ ) : 390 Mpa

Tegangan Leleh Tulangan Polos ( $f_y$ ) : 240 Mpa

Kuat Tekan Beton ( $f_c$ ) : 30 Mpa

### 3.2 Perhitungan Pelat

#### 3.2.1 Perencanaan Tebal Pelat



**Gambar 3.2.1.1 Denah Perencanaan Lantai Cendawan**

- Perhitungan Tebal Pelat Minimum Dengan Penebalan Berdasarkan SNI 03 - 2847 - 2002.

$$l_n = 7800 - (1/2 \times 400 + 1/2 \times 700) = 7100 \text{ mm}$$

- Untuk Panel Luar :

$$h = \frac{l_n}{33} = \frac{7100}{33} = 215,512 \text{ mm} > 200 \text{ mm}$$

- Untuk Panel Dalam:

$$h = \frac{l_n}{36} = \frac{7100}{36} = 197,222 \text{ mm} > 200 \text{ mm}$$

Maka tebal pelat diambil 220 mm > 100 mm **OK**

$$\text{Direduksi } 10 \% = 220 - (220 \times 10\%) = 198 \text{ mm} > 200 \text{ mm}$$

(Chu - Kia Wang, Desain beton Bertulang Jilid 2 :136)

### 3.2.2 Perencanaan Tebal Drop Panel

- Perencanaan Minimum Drop Panel 1

- Tebal Drop Panel 1 =  $1/4 \times h_{\text{Pelat}} = 1/4 \times 200 = 50 \text{ mm}$

$$\text{Jadi tebal drop panel} = 200 + 50 = 250 \text{ mm}$$

- Jarak Drop Panel dari As (a) =  $1/6 \times L$

$$= 1/6 \times 7800 = 1300 \text{ mm}$$

$$\text{Jadi dimensi drop panel } 2600 \times 2600 \text{ mm}$$

- Tebal Efektif ( d ) =

$$d = h_{\text{pelat}} - 1/2 \text{ Diameter tul. utama} - \text{Selimut beton}$$

$$= 200 - (1/2 \times 12) - 20 = 174 \text{ mm}$$

➤ Perencanaan Minimum Drop Panel 2

- Tebal Drop Panel =  $1/4 \times h_{\text{pelat}} = 1/4 \times 250 = 62,5 \text{ mm}$

Jadi tebal drop panel =  $200 + 50 + 62,5 = 312,5 \text{ mm} \quad 350 \text{ mm}$

- Jarak Drop Panel dari As (a) =  $1/6 \times \text{Jarak Drop Panel 1}$

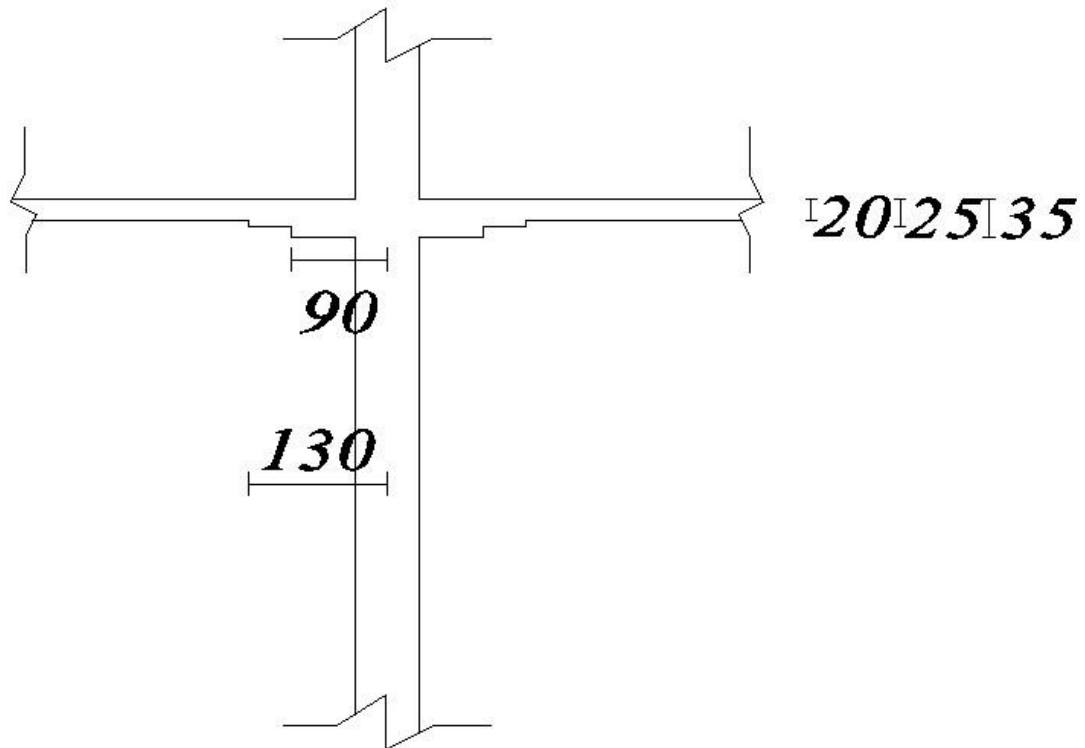
$= 1/6 \times 1300 = 216,667 \text{ mm} \quad 600 \text{ mm}$

Jadi dimensi drop panel  $600 \times 600 \text{ mm}$

- Tebal Efektif ( d ) =

$d = h_{\text{pelat}} - 1/2 \text{ Diameter tul.utama} - \text{Selimut beton}$

$= 174 - (1/2 \times 12) - 20 = 128 \text{ mm}$



**Gambar 3.2.1.2 Gambar Drop panel A**

Sehingga dapat ditabelkan sebagai berikut :

Perhitungan Tebal Pelat Minimum Dengan Penebalan Berdasarkan SNI 03 -2847 – 2002										
No	Pertebalan	Bentang (mm)	$l_n(\text{mm})$	Panel				Diambil	Reduksi 10%	Dipakai  h pelat
	Pelat		$= l -$ $((0,5*b)+(0,5*h))$	h Luar		h Dalam			chu-kia wang jilid 2 :136	
			$l_n/33$			$l_n/36$				
1	A	7800	7100	215.152	220	197.222	200	220	198	200
2	B	7000	6300	190.909	200	175.000	180	200	180	180
3	C	7150	6450	195.455	200	179.167	180	200	180	180
4	D	5300	4600	139.394	140	127.778	130	140	126	130
5	E	5250	4550	137.879	140	126.389	130	140	126	130
6	F	4750	4050	122.727	130	112.500	120	130	117	120
7	G	1750	1050	31.818	130	29.167	120	130	117	120

**Tabel 3.2.1.3 Perhitungan Tebal Pelat Minimum Dengan Penebalan Berdasarkan SNI 03 -2847 – 2002**

**Tabel 3.2.1.4 Perencanaan Tebal Minimum Drop Panel 1**

Perencanaan Tebal Minimum Drop Panel 1							
No	Pelat	DP 1 (Tebal Drop panel 1)	Tebal Drop Panel 1	DP 1 (Tebal Drop panel 1)	Jarak	Jarak Dipakai	Tebal efektif
		= 1/4 *h pelat	= h DP 1 + tebal pelat	Dipakai	=1/6 * L		=hpelat-1/2 D tul.Utama - selimut Beton
1	A	50	250	250	1300	1300	174
2	B	45	225	250	1166.666667	1300	154
3	C	45	225	250	1191.666667	1300	154
4	D	32.5	162.5	200	883.3333333	900	104

**Tabel 3.2.1.4 Perencanaan Tebal Minimum Drop Panel 2**

Perencanaan Tebal Minimum Drop Panel 2							
No	Pelat	DP 2 (Tebal Drop panel 2)	Tebal Drop Panel 2	DP 2 (Tebal Drop panel 2)	Jarak	Jarak Dipakai	Tebal efektif
		= 1/4 *h pelat	= h DP 1 + DP 2 + tebal pelat	Dipakai	=1/6 * L		=hpelat-1/2 D tul.Utama - selimut Beton
1	A	62.5	312.5	350	216.67	600	148
2	B	62.5	312.5	350	216.6666667	600	128
3	C	62.5	312.5	350	216.6666667	600	128
4	D	50	250	250	150	600	78



Dari hasil analisa drop panel diperoleh 2 macam type drop panel :

1. Type A dengan tebal drop panel 1 = 250 mm ukuran 2600 x 2600 mm, drop panel 2 = 350 mm ukuran 1200 x 1200 mm.
2. Type B dengan tebal drop panel 1 = 200 mm ukuran 1800 x 1800 mm, drop panel 2 = 250 mm ukuran 1200 x 1200 mm.

### 3.3 Kontrol Geser

#### 3.3.1 Beban Tiap Pelat drop panel

##### 3.3.1.1 Beban Tiap Pelat drop panel (A)

Beban Mati

- Berat Sendiri Pelat =  $0.2 \times 2400 = 480 \text{ Kg/m}^2$
- Berat Urug Pasir =  $0.05 \times 1600 = 80 \text{ Kg/m}^2$
- Berat Keramik & Adukan =  $0.03 \times 2200 = 66 \text{ Kg/m}^2 + 626 \text{ Kg/m}^2$

Beban Hidup

- Berat hidup unruk hotel =  $250 \text{ Kg/m}^2$

$$\begin{aligned} q_u &= 1,2 q_d + 1,6 q_l \\ &= 1,2 \times 626 + 1,6 \times 250 \\ &= 1151,2 \text{ Kg/m}^2 \end{aligned}$$

Berat Dinding =  $(0,5 \text{ bentang vertikal kiri} + 0,5 \text{ bentang vertikal kanan} + 0,5 \text{ bentang horizontal atas} + 0,5 \text{ bentang horizontal bawah}) \times 0,15 \times \text{tinggi} \times \text{bj.dinding panel} \times \text{tinggi dinding}$

$$= ( 0.5 \times 7,8 + 0.5 \times 5.25 + 0.5 \times 5.3 + 0.5 \times 4.75 ) \times 0.15 \times 120$$

$$\times 4$$

$$= 831,6 \text{ Kg/m}^2$$

qu total = qu + Berat Dinding

$$= 1151,2 + 831,6$$

$$= 1982,8 \text{ Kg/m}^2$$

### 3.3.1.2 Beban Tiap Pelat drop panel (B)

#### Beban Mati

- Berat Sendiri Pelat =  $0.18 \times 2400 = 432 \text{ Kg/m}^2$
  - Berat Urug Pasir =  $0.05 \times 1600 = 80 \text{ Kg/m}^2$
  - Berat Keramik & Adukan =  $0.03 \times 2200 = 66 \text{ Kg/m}^2$
- 578 Kg/m<sup>2</sup>

#### Beban Hidup

- Berat hidup unruk hotel =  $250 \text{ Kg/m}^2$

$$qu = 1,2 qd + 1,6 ql$$

$$= 1,2 \times 578 + 1,6 \times 250$$

$$= 1093,6 \text{ Kg/m}^2$$

Berat Dinding = (0,5 bentang vertikal kiri + 0,5 bentang horizontal atas + 0,5 bentang horizontal bawah ) x 0,15 x tinggi x bj.dinding panel x tinggi dinding

$$= ( 0.5 \times 5.25 + 0.5 \times 5.3 + 0.5 \times 4.75 ) \times 0.15 \times 120 \times 4$$

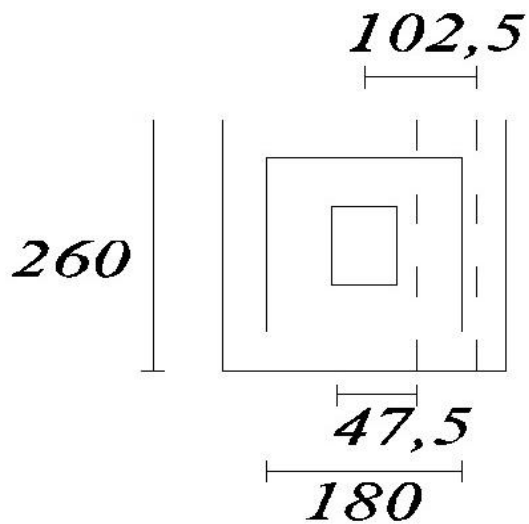
$$= 550,8 \text{ Kg/m}^2$$

$$\begin{aligned}
 q_u \text{ total} &= q_u + \text{Berat Dinding} \\
 &= 1093,6 + 550,8 \\
 &= 1644,4 \text{ Kg/m}^2
 \end{aligned}$$

### 3.3.2 Kontrol Geser Pons Drop Panel

➤ Kontrol Geser Type A

$$q_u = 1982,8 \text{ Kg/m}^2$$



$$V_u = V_n$$

$$V_u = L \times 1,025 \times q_u$$

$$= 2,6 \times 1,025 \times 1982,8$$

$$= 5284,162 \text{ Kg}$$

$$V_c = (\sqrt{f_c'} / 6) b d$$

$$= (\sqrt{30} / 6) \times 2,6 \times 0,25$$

$$= 0,59 \text{ Kg}$$

$$V_s = A_v \times f_y \times \sin \quad (\text{Sengkang miring})$$

$$= 2,6 \times 1,8 \times 390 \times \sin 45^\circ$$

$$= 1290,61 \text{ Kg}$$

$$V_n = V_c + V_s$$

$$= 0,59 + 1290,61$$

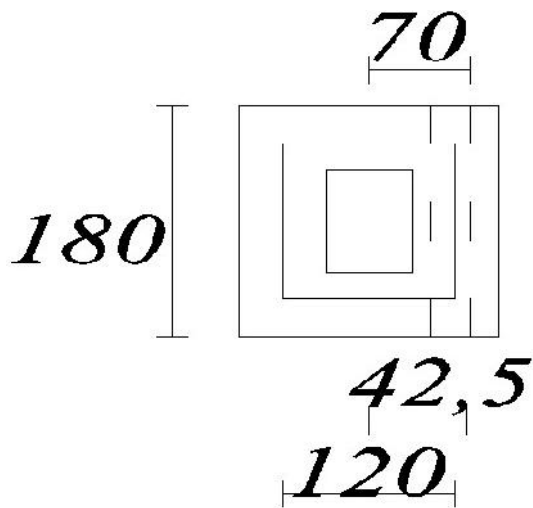
$$= 1291,2 \text{ Kg}$$

$$V_u \quad V_n$$

5284,162    1291,2..... Tidak Ok diperlukan tulangan geser

➤ Kontrol Geser Type B

$$q_u = 1644,4 \text{ Kg/m}^2$$



$$V_u \quad V_n$$

$$V_u = L \times 0,7 \times q_u$$

$$= 1,8 \times 0,77 \times 1644,4$$

$$= 2279,14 \text{ Kg}$$

$$V_c = (\sqrt{f_c'} / 6) b d$$

$$= (\sqrt{30} / 6) \times 1,8 \times 0,2$$

$$= 0,33 \text{ Kg}$$

$$V_s = A_v \times f_y \times \sin \quad (\text{Sengkanng miring})$$

$$= 1,2 \times 1,8 \times 390 \times \sin 45^\circ$$

$$= 595,67 \text{ Kg}$$

$$V_n = V_c + V_s$$

$$= 0,33 + 595,67$$

$$= 596 \text{ Kg}$$

$$V_u \quad V_n$$

2279,14    596 ..... Tidak Ok diperlukan tulangan Geser

### 3.4 Pembebanan Pelat Cendawan

#### 3.4.1 Beban Drop Panel Type A

Beban Mati

- Berat Sendiri Pelat =  $0,2 \times 2400$                          $= 480 \text{ Kg/m}^2$
- Berat Drop Panel 1 =  $0,25 \times 2400$                          $= 600 \text{ Kg/m}^2$
- Berat Drop Panel 2 =  $0,35 \times 2400$                          $= 840 \text{ Kg/m}^2$
- Berat Urug Pasir =  $0,05 \times 1600$                          $= 80 \text{ Kg/m}^2$
- Berat Keramik & Adukan =  $0,03 \times 2200$                          $\underline{= 66 \text{ Kg/m}^2} +$   
 $2066 \text{ Kg/m}^2$

Beban Hidup

- Berat hidup untuk hotel = 250 Kg/m<sup>2</sup>

$$q_U = 1.2 q_d + 1.6 q_l$$

$$= 1,2 * 2066 + 1,6 * 250$$

$$= 2879,2 \text{ Kg/m}^2$$

$$\text{Berat Dinding} = (0,5 \text{ bentang vertikal kiri} + 0,5 \text{ bentang vertikal kanan} + 0,5$$

$$\text{bentang horizontal atas} + 0,5 \text{ bentang horizontal bawah}) \times$$

$$0,15 \times \text{tinggi} \times \text{bj.dinding panel} \times \text{tinggi dinding}$$

$$= (0.5 \times 7,8 + 0.5 \times 5.25 + 0.5 \times 5.3 + 0.5 \times 4.75) \times 0.15 \times 120$$

$$\times 4$$

$$= 831,6 \text{ Kg/m}^2$$

$$q_U \text{ total} = 2879,2 + 831,6 = 3710.8 \text{ Kg/m}^2$$

### 3.4.2 Beban Drop Panel Type B

Beban Mati

- Berat Sendiri Pelat = 0.2x2400 = 480 Kg/m<sup>2</sup>

- Berat Drop Panel 1 = 0.2x2400 = 480 Kg/m<sup>2</sup>

- Berat Drop Panel 2 = 0.25x2400 = 600 Kg/m<sup>2</sup>

- Berat Urug Pasir = 0.05x1600 = 80 Kg/m<sup>2</sup>

- Berat Keramik & Adukan = 0.03x2200 = 66 Kg/m<sup>2</sup> +  
1706 Kg/m<sup>2</sup>

Beban Hidup

- Berat hidup untuk hotel = 250 Kg/m<sup>2</sup>

$$q_U = 1.2 q_d + 1.6 q_l$$

$$= 1,2 * 1706 + 1,6 * 250$$

$$= 2447,2 \text{ Kg/m}^2$$

$$\begin{aligned} \text{Berat Dinding} &= (0,5 \text{ bentang vertikal kiri} + 0,5 \text{ bentang horizontal atas} + 0,5 \\ &\quad \text{bentang horizontal bawah}) \times 0,15 \times \text{tinggi} \times \text{bj.dinding panel} \\ &\quad \times \text{tinggi dinding} \end{aligned}$$

$$= (0.5 \times 5.25 + 0.5 \times 5.3 + 0.5 \times 4.75) \times 0.15 \times 120 \times 4$$

$$= 550,8 \text{ Kg/m}^2$$

$$q_U \text{ total} = 2447,2 + 550,8 = 2998 \text{ Kg/m}^2$$

Hasil Perhitungan menggunakan program bantu staad pro 2004 :

Titik	Momen	No.Pelat	Mx	My	Mx	My
			Knm/m	Knm/m	Knm/mm	Knm/mm
A	Mt kiri	8022	-99.109	-28.5776	-99109	-28577.6
A-B	M Lap	7715	28.704	32.2187	28704	32218.7
B	Mt kanan	7226	-0.503	-2.8296	-503	-2829.6
B	Mt kiri	7227	-82.614	-23.5716	-82614	-23571.6
B-C	M Lap	182	107.673	47.9215	107673	47921.5
C	Mt kanan	6254	-8.286	-47.0572	-8286	-47057.2
C	Mt kiri	6255	-0.429	-47.4572	-429	-47457.2
C-D	M Lap	348	141.486	47.7216	141486	47721.6
D	Mt kanan	5361	-1.022	-46.806	-1022	-46806
D	Mt kiri	5362	-0.492	-47.4887	-492	-47488.7
D-E	M Lap	469	52.072	48.1218	52072	48121.8
E	Mt kanan	4387	-75.885	-10.6218	-75885	-10621.8
E	Mt kiri	4388	-60.051	-31.2423	-60051	-31242.3
E-F	M Lap	601	111.906	46.5536	111906	46553.6
F	Mt kanan	3795	-19.436	-41.5105	-19436	-41510.5
F	Mt kiri	3796	-37.131	-38.0159	-37131	-38015.9
F-G	M Lap	810	98.674	42.2352	98674	42235.2
G	Mt kanan	1784	-91.388	-33.3501	-91388	-33350.1
G	Mt kiri	1785	-29.16	-27.1441	-29160	-27144.1
G-H	M Lap	817	92.655	40.6837	92655	40683.7
H	Mt kanan	820	-19.717	-31.0485	-19717	-31048.5
H	Mt kiri	821	-33.586	-35.0917	-33586	-35091.7
H-I	M Lap	2377	-91.307	-40.3885	-91307	-40388.5
I	Mt kanan	2374	47.268	38.6121	47268	38612.1
I	Mt kiri	2373	-46.639	-38.6397	-46639	-38639.7
I-J	M Lap	2370	83.049	40.6047	83049	40604.7
J	Mt kanan	3666	-26.447	-39.7083	-26447	-39708.3

**Tabel 3.4 Hasil Perhitungan Momen**



**BAB IV**  
**PERENCANAAN STRUKTUR**

**4.1 Perencanaan Penulangan Pelat**

**4.1.1 Perhitungan Penulangan Pelat A**

Diameter tulangan utama = D16

Selimut beton = 20 mm

Tinggi efektif ( $d_x$ ) =  $h - \frac{1}{2} \text{ tul utama} - \text{tebal selimut}$   
 $= 1300 - (1/2 \cdot 16) - 20$   
 $= 1272 \text{ mm}$

$M_lx = 28704 \text{ kNm/mm}$

$M_n = M_lx / 0,8 = 28704/0,8 = 35880 \text{ kNm/mm}$

$f_c' > 30 \text{ Mpa} \rightarrow \rho_1 = 0,85 - (f_c' - 30) \cdot 0,008$   
 $= 0,85 - (30 - 30) \cdot 0,008$   
 $= 0,85$

$$A_s \text{ perlu} = \frac{0,85 \cdot f_c \cdot b \cdot d}{f_y} \left( 1 - \sqrt{1 - \frac{2 M_n}{0,85 \cdot f_c \cdot b \cdot d^2}} \right)$$

$$= \frac{0,85 \cdot 30 \cdot 5300 \cdot 1272}{390} \left( 1 - \sqrt{1 - \frac{2 \cdot 35880}{0,85 \cdot 30 \cdot 5300 \cdot 1272^2}} \right)$$

$$= 723,86 \text{ mm}^2$$

$$A_s \text{ max} = 0,75 \times \frac{0,85 \cdot f_c \cdot b \cdot d}{f_y} \times \frac{600}{600 + f_y}$$

$$= 0,75 \times \frac{0,85 \cdot 30 \cdot 5300 \cdot 1272}{390} \times \frac{600}{600 + 390}$$

$$= 170307,9 \text{ mm}^2$$

$$A_s \text{ min} = 0.002 \times 5300 \times 1272 = 13483.20 \text{ mm}^2$$

$$A_s = \frac{1}{4} r^2$$

$$= \frac{1}{4} \times 3,14 \times 16^2 = 200,96 \text{ mm}^2$$

$$\text{Jarak tulangan (s)} = A_s \times b / A_s \text{ Perlu}$$

$$= 200,96 \times 5300 / 13483.20$$

$$= 78,99 \text{ mm} \quad 70 \text{ mm}$$

$$A_s \text{ ada} = A_s \times b / s \text{ (yang dipasang)}$$

$$= 200,96 \times 5300 / 70$$

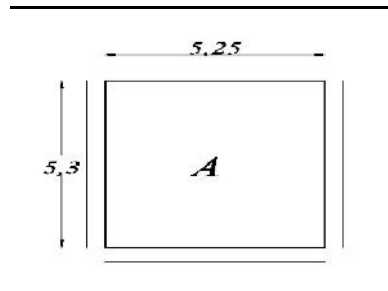
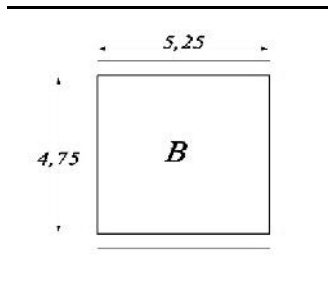
$$= 15215.54 \text{ mm}^2$$

Kontrol :

$$A_s \text{ Ada} = 15215.54 \text{ mm}^2 > A_s \text{ perlu} = 13483,20 \text{ mm}^2 \dots\dots\dots \text{OK}$$

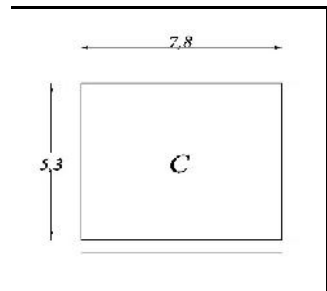
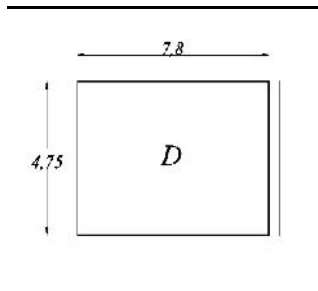
**Perhitungan selanjutnya ditabelkan**

## PERHITUNGAN PLAT LANTAI

Pelat				
	TIPE A		TIPE B	
Spesifikasi	Mlx	Mly	Mlx	Mly
hf (mm)	1300	1300	1300	1300
f'c (Mpa)	30	30	30	30
fy (Mpa)	390	390	390	390
b (mm)	5300	5250	4750	5250
d (mm)	1272	1272	1272	1272
Diameter Tul. (mm)	16	16	16	16
Momen (Nmm)	28704	322187	28704	322187
Mn (Nmm) x 10 <sup>4</sup>	35880	402734	35880	402734
As <sub>perlu</sub> (mm <sup>2</sup> )	723.86	8195.23	723.93	8195.23
As <sub>max</sub> (mm <sup>2</sup> )	170307.90	168701.22	152634.44	168701.22
As <sub>min</sub> (mm <sup>2</sup> )	13483.20	13356.00	12084.00	13356.00
As <sub>perlu</sub> (mm <sup>2</sup> )	13483.20	13356.00	12084.00	13356.00
Tulangan Pokok	16	16	16	16
As (mm <sup>2</sup> )	200.960	200.960	200.960	200.960
s	78.99	78.99	78.99	78.99
s (Yg dipasang)(mm)	70	70	70	70
Jumlah Tulangan	75.71	75.00	67.86	75.00
As <sub>ada</sub> (mm <sup>2</sup> )	15215.54	15072.00	13636.57	15072.00
Kontrol	OK	OK	OK	OK
Tul. Pokok	ø 16 - 70	ø 16 - 70	ø 16 - 70	ø 16 - 70

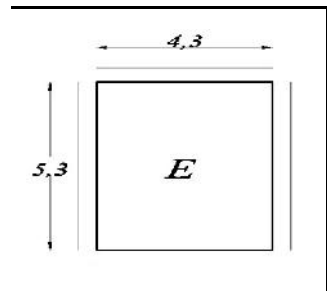
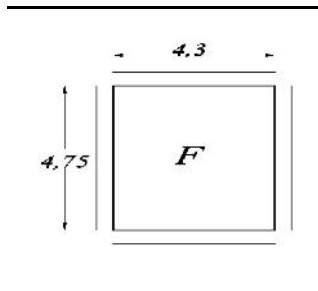
**Tabel 4.1.1 Perhitungan Pelat Lantai A dan B**

## PERHITUNGAN PLAT LANTAI

Pelat				
	TIPE C		TIPE D	
Spesifikasi	Mlx	Mly	Mlx	Mly
hf (mm)	2000	2000	2000	2000
f'c (Mpa)	30	30	30	30
fy (Mpa)	390	390	390	390
b (mm)	5300	7800	4750	7800
d (mm)	1972	1972	1972	1972
Diameter Tul. (mm)	16	16	16	16
Momen (Nmm)	141486	477216	141486	477216
Mn (Nmm) x 10 <sup>4</sup>	176858	596520	176858	596520
As <sub>perlu</sub> (mm <sup>2</sup> )	2303.48	7786.42	2303.93	7786.42
As <sub>max</sub> (mm <sup>2</sup> )	264030.80	388573.64	236631.38	388573.64
As <sub>min</sub> (mm <sup>2</sup> )	20903.20	30763.20	18734.00	30763.20
As <sub>perlu</sub> (mm <sup>2</sup> )	20903.20	30763.20	18734.00	30763.20
Tulangan Pokok	16	16	16	16
As (mm <sup>2</sup> )	200.960	200.960	200.960	200.960
s	50.95	50.95	50.95	50.95
s (Yg dipasang)(mm)	50	50	50	50
Jumlah Tulangan	106.00	156.00	95.00	156.00
As <sub>ada</sub> (mm <sup>2</sup> )	21301.76	31349.76	19091.20	31349.76
Kontrol	OK	OK	OK	OK
Tul. Pokok	ø 16 - 50	ø 16 - 50	ø 16 - 50	ø 16 - 50

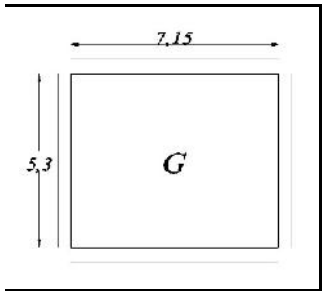
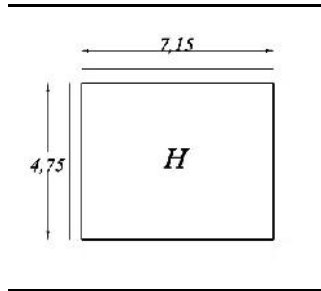
**Tabel 4.1.2 Perhitungan Pelat Lantai C dan D**

## PERHITUNGAN PLAT LANTAI

Pelat				
	TIPE E		TIPE F	
Spesifikasi	Mlx	Mly	Mlx	Mly
hf (mm)	2000	2000	2000	2000
f'c (Mpa)	30	30	30	30
fy (Mpa)	390	390	390	390
b (mm)	5300	4300	4750	4300
d (mm)	1972	1972	1972	1972
Diameter Tul. (mm)	16	16	16	16
Momen (Nmm)	52072	481218	52072	481218
Mn (Nmm) x 10 <sup>4</sup>	65090	601523	65090	601523
As <sub>perlu</sub> (mm <sup>2</sup> )	846.86	7877.28	846.92	7877.28
As <sub>max</sub> (mm <sup>2</sup> )	264030.80	214213.67	236631.38	214213.67
As <sub>min</sub> (mm <sup>2</sup> )	20903.20	16959.20	18734.00	16959.20
As <sub>perlu</sub> (mm <sup>2</sup> )	20903.20	16959.20	18734.00	16959.20
Tulangan Pokok	16	16	16	16
As (mm <sup>2</sup> )	200.960	200.960	200.960	200.960
s	50.95	50.95	50.95	50.95
s (Yg dipasang)(mm)	50	50	50	50
Jumlah Tulangan	106.00	86.00	95.00	86.00
As <sub>ada</sub> (mm <sup>2</sup> )	21301.76	17282.56	19091.20	17282.56
Kontrol	OK	OK	OK	OK
Tul. Pokok	ø 16 - 50	ø 16 - 50	ø 16 - 50	ø 16 - 50

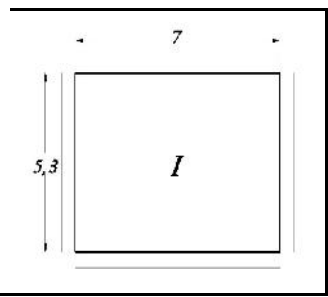
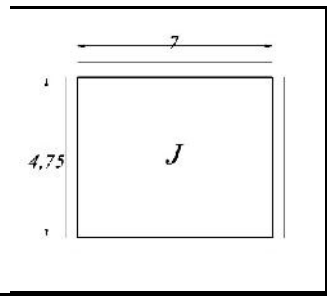
**Tabel 4.1.3 Perhitungan Pelat Lantai E dan F**

## PERHITUNGAN PLAT LANTAI

Pelat				
	TIPE G		TIPE H	
Spesifikasi	Mlx	Mly	Mlx	Mly
hf (mm)	2000	2000	2000	2000
f <sub>c</sub> (Mpa)	30	30	30	30
f <sub>y</sub> (Mpa)	390	390	390	390
b (mm)	5300	7150	4750	7150
d (mm)	1972	1972	1972	1972
Diameter Tul. (mm)	16	16	16	16
Momen (Nmm)	111906	465536	111906	465536
M <sub>n</sub> (Nmm) x 10 <sup>4</sup>	139883	581920	139883	581920
A <sub>S</sub> perlu (mm <sup>2</sup> )	1821.26	7597.75	181.91	7597.75
A <sub>S</sub> max (mm <sup>2</sup> )	264030.80	356192.50	236631.38	356192.50
A <sub>S</sub> min (mm <sup>2</sup> )	20903.20	28199.60	18734.00	28199.60
A <sub>S</sub> perlu (mm <sup>2</sup> )	20903.20	28199.60	18734.00	28199.60
Tulangan Pokok	16	16	16	16
A <sub>s</sub> (mm <sup>2</sup> )	200.960	200.960	200.960	200.960
s	50.95	50.95	50.95	50.95
s (Yg dipasang)(mm)	50	50	50	50
Jumlah Tulangan	106.00	143.00	95.00	143.00
A <sub>S</sub> ada (mm <sup>2</sup> )	21301.76	28737.28	19091.20	28737.28
Kontrol	OK	OK	OK	OK
Tul. Pokok	ø 16 - 50	ø 16 - 50	ø 16 - 50	ø 16 - 50

**Tabel 4.1.4 Perhitungan Pelat Lantai G dan H**

## PERHITUNGAN PLAT LANTAI

Pelat				
	TIPE I		TIPE J	
Spesifikasi	Mlx	Mly	Mlx	Mly
hf (mm)	2000	2000	2000	2000
f'c (Mpa)	30	30	30	30
fy (Mpa)	390	390	390	390
b (mm)	5300	7000	7000	7000
d (mm)	1972	1972	1972	1972
Diameter Tul. (mm)	16	16	16	16
Momen (Nmm)	98674	422352	98674	422352
Mn (Nmm) x 10 <sup>4</sup>	123343	527940	123343	527940
As <sub>perlu</sub> (mm <sup>2</sup> )	1605.65	6890.87	1605.19	6890.87
As <sub>max</sub> (mm <sup>2</sup> )	264030.80	348719.93	348719.93	348719.93
As <sub>min</sub> (mm <sup>2</sup> )	20903.20	27608.00	27608.00	27608.00
As <sub>perlu</sub> (mm <sup>2</sup> )	20903.20	27608.00	27608.00	27608.00
Tulangan Pokok	16	16	16	16
As (mm <sup>2</sup> )	200.960	200.960	200.960	200.960
s	50.95	50.95	50.95	50.95
s (Yg dipasang)(mm)	50	50	50	50
Jumlah Tulangan	106.00	140.00	140.00	140.00
As <sub>ada</sub> (mm <sup>2</sup> )	21301.76	28134.40	28134.40	28134.40
Kontrol	OK	OK	OK	OK
Tul. Pokok	ø 16 - 50	ø 16 - 50	ø 16 - 50	ø 16 - 50

**Tabel 4.1.5 Perhitungan Pelat Lantai I dan J**

## 4.2 Perencanaan Penulangan Drop Panel

### 4.2.1 Perhitungan Penulangan Drop Panel A

$$\text{Diameter tulangan utama} = \text{D16}$$

$$\text{Selimut beton} = 20 \text{ mm}$$

$$\begin{aligned} \text{Tinggi efektif (d}_x\text{)} &= h - \frac{1}{2} \text{ tul utama} - \text{tebal selimut} \\ &= 350 - (1/2 \cdot 16) - 20 \\ &= 322 \text{ mm} \end{aligned}$$

$$M_{tx} = 82614 \text{ kNm/mm}$$

$$M_n = M_{tx} / 0,8 = 82614 / 0,8 = 123886 \text{ kNm/mm}$$

$$\begin{aligned} f_c' > 30 \text{ Mpa} \rightarrow \rho_1 &= 0,85 - (f_c' - 30) \cdot 0,008 \\ &= 0,85 - (30 - 30) \cdot 0,008 \\ &= 0,85 \end{aligned}$$

$$\begin{aligned} A_s \text{ perlu} &= \frac{0,85 \cdot f_c \cdot b \cdot d}{f_y} \left( 1 - \sqrt{1 - \frac{2 M_n}{0,85 \cdot f_c \cdot b \cdot d^2}} \right) \\ &= \frac{0,85 \cdot 30 \cdot 1800 \cdot 322}{390} \left( 1 - \sqrt{1 - \frac{2 \cdot 123886}{0,85 \cdot 30 \cdot 1800 \cdot 322^2}} \right) \\ &= 9385,43 \text{ mm}^2 \end{aligned}$$

$$\begin{aligned} A_s \text{ max} &= 0,75 \times \frac{0,85 \cdot f_c \cdot b \cdot d}{f_y} \times \frac{600}{600 + f_y} \\ &= 0,75 \times \frac{0,85 \cdot 30 \cdot 1800 \cdot 322}{390} \times \frac{600}{600 + 390} \\ &= 14641,99 \text{ mm}^2 \end{aligned}$$

$$A_s \text{ min} = 0,002 \times 1800 \times 322 = 1159,20 \text{ mm}^2$$

$$\begin{aligned} A_s &= \frac{1}{4} r^2 \\ &= \frac{1}{4} \times 3,14 \times 16^2 = 200,96 \text{ mm}^2 \end{aligned}$$



$$\begin{aligned}\text{Jarak tulangan (s)} &= A_s \times b / A_s \text{ Perlu} \\ &= 12057,60 \times 1800 / 9385,43 \\ &= 38,54 \text{ mm} \quad 30 \text{ mm}\end{aligned}$$

$$\begin{aligned}A_s \text{ ada} &= A_s \times b / s \text{ (yang dipasang)} \\ &= 200,96 \times 1800 / 30 \\ &= 12057,60 \text{ mm}^2\end{aligned}$$

Kontrol :

$$A_s \text{ Ada} = 12057,60 \text{ mm}^2 > A_s \text{ perlu} = 9385,43 \text{ mm}^2 \dots\dots\dots \text{OK}$$

**Perhitungan selanjutnya ditabelkan**

Spesifikasi	Drop Panel A							
	Mtx (+)	Mty (+)	Mtx (+)	Mty(+)	Mtx (-)	Mty (-)	Mtx (-)	Mty(-)
hf (mm)	350	350	250	250	350	350	250	250
f'c (Mpa)	30	30	30	30	30	30	30	30
fy (Mpa)	390	390	390	390	390	390	390	390
b (mm)	1800	1800	800	800	1800	1800	800	800
d (mm)	322	306	222	206	322	306	222	206
Diameter Tul. (mm)	16	16	16	16	16	16	16	16
Momen	82614	23572	82614	23572	82614	23572	82614	23572
Mn (kNmm) x 10 <sup>4</sup>	103268	29465	103268	29465	103268	29465	103268	29465
As <sub>perlu</sub> (mm <sup>2</sup> )	9385.43	247.75	1261.23	373.21	831.45	247.75	1261.23	37.32
As <sub>max</sub> (mm <sup>2</sup> )	14641.99	13914.44	4486.57	4163.22	14641.99	13914.44	4486.57	4163.22
As <sub>min</sub> (mm <sup>2</sup> )	1159.20	1101.60	355.20	329.60	1159.20	1101.60	355.20	329.60
As <sub>perlu</sub> (mm <sup>2</sup> )	9385.43	1101.60	1261.23	373.21	1159.20	1101.60	1261.23	329.60
Tulangan Pokok	16	16	16	16	16	16	16	16
As (mm <sup>2</sup> )	200.960	200.960	200.960	200.960	200.960	200.960	200.960	200.960
s	38.54	328.37	127.47	430.77	312.05	328.37	127.47	487.77
s (Yg dipasang)(mm)	30	30	30	30	30	30	30	30
As <sub>ada</sub> (mm <sup>2</sup> )	12057.60	12057.60	5358.93	5358.93	12057.60	12057.60	5358.93	5358.93
Jumah Tulangan	60.00	60.00	26.67	26.67	60.00	60.00	26.67	26.67
Kontrol	OK	OK	OK	OK	OK	OK	OK	OK
Tul. Pokok	Ø 16 - 30	Ø 16 - 30	Ø 16 - 30	Ø 16 - 30	Ø 16 - 30	Ø 16 - 30	Ø 16 - 30	Ø 16 - 30

**Tabel 4.2.1 Perhitungan Penulangan Drop Panel A**

Spesifikasi	Drop Panel B							
	Mtx (+)	Mty (+)	Mtx (+)	Mty(+)	Mtx (-)	Mty (-)	Mtx (-)	Mty(-)
hf (mm)	250	250	200	200	250	250	200	200
f <sub>c</sub> (Mpa)	30	30	30	30	30	30	30	30
f <sub>y</sub> (Mpa)	390	390	390	390	390	390	390	390
b (mm)	1200	1200	600	600	1200	1200	600	600
d (mm)	222	222	172	172	222	222	172	172
Diameter Tul. (mm)	16	16	16	16	16	16	16	16
Momen	99109	28578	99109	28578	99109	28578	99109	28578
M <sub>n</sub> (kNmm) x 10 <sup>4</sup>	123886	35722	123886	35722	123886	35722	123886	35722
A <sub>s</sub> perlu (mm <sup>2</sup> )	1495.05	417.60	2208.14	555.38	1495.05	417.60	2208.14	555.38
A <sub>s</sub> max (mm <sup>2</sup> )	6729.86	6729.86	2607.06	2607.06	6729.86	6729.86	2607.06	2607.06
A <sub>s</sub> min (mm <sup>2</sup> )	532.80	532.80	206.40	206.40	53.28	53.28	206.40	206.40
A <sub>s</sub> perlu (mm <sup>2</sup> )	1495.05	532.80	2208.14	555.38	1495.05	417.60	2208.14	555.38
Tulangan Pokok	16	16	16	16	16	16	16	16
A <sub>s</sub> (mm <sup>2</sup> )	200.960	200.960	200.960	200.960	200.960	200.960	200.960	200.960
s	161.30	452.61	54.61	217.10	161.30	577.48	54.61	217.10
s (Yg dipasang)(mm)	30	30	30	30	30	30	30	30
A <sub>s</sub> ada (mm <sup>2</sup> )	8038.40	8038.40	4019.20	4019.20	8038.40	8038.40	4019.20	4019.20
Jumah Tulangan	40.00	40.00	20.00	20.00	40.00	40.00	20.00	20.00
Kontrol	OK	OK	OK	OK	OK	OK	OK	OK
Tul. Pokok	ø 16 - 30	ø 16 - 30	ø 16 - 30	ø 16 - 30	ø 16 - 30	ø 16 - 30	ø 16 - 30	ø 16 - 30

**Tabel 4.2.2 Perhitungan Penulangan Drop Panel B**

## BAB V

### KESIMPULAN DAN SARAN

#### 5.1. Kesimpulan

Pada perencanaan Gedung Ijen Padjajaran Suites Hotel Resort And Convention Hall menggunakan struktur pelat dengan sistem Pelat Cendawan (*Flat Slab*). Dari perencanaan pada laporan skripsi ini dapat diperoleh hasil diantaranya sebagai berikut:

1. Terdapat 4 penebalan plat (*drop panel*) dalam perencanaan struktur flat slab.

- a) Drop Panel Type A

Tebal Drop Panel 1 = 250 mm, Ukuran 1300 x 1300 mm

Tebal Drop Panel 2 = 350 mm, Ukuran 900 x 900 mm

- b) Drop Panel Type B

Tebal Drop Panel 1 = 200 mm, Ukuran 900 x 900 mm

Tebal Drop Panel 2 = 250 mm, Ukuran 600 x 600 mm

Pengaruh penebalan pelat (*drop panel*) untuk meningkatkan kapasitas panel dalam menahan geser pons.

2. Hasil Penulangan Pelat.

Dari hasil analisa dan gambar penulangan Pelat Cendawan (*flat slab*)

Diperoleh tulangan  $\phi$  16 - 50

3. Hasil Penulangan Drop Panel

Dari hasil analisa dan gambar penulangan penebalan plat (*drop panel*)

Diperoleh tulangan  $\phi$  16 – 30

## 5.2. Saran

- Dengan kemajuan teknologi saat ini, perencanaan struktur gedung portal 3D, kita dapat menggunakan fasilitas program Staad Pro yang mampu menghasilkan penulangan dan hasil output secara langsung, akan tetapi perlu ditinjau juga dalam memakai staad pro karena struktur flat slab tidak memakai balok, serta diperhatikan juga peraturan-peraturan yang ada akan lebih efisien dan dapat menghemat biaya pelaksanaan pekerjaan.
- Dalam penggunaan konstruksi struktur pelat tanpa balok hendaknya dikombinasikan dengan dinding geser dalam tinjauannya terhadap gaya gempa yang disebabkan oleh gempa guna untuk memenuhi syarat keamanan dan kenyamanan suatu bangunan.
- Bagi Pembaca yang berminat untuk merencanakan konstruksi pelat tanpa balok bisa menggunakan referensi konstruksi pelat - pelat yang lain seperti pelat berusuk.
- Gedung yang dikaji untuk pelat cendawan ( *flat slab* ) minimal gedung dengan lantai kurang dari 5, biar lebih efisien seperti pada penggunaan struktur gedung “*Matos (Malang Town Square)*”. Serta gunakan dinding yang ringan untuk mengurangi lendutan.

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# **LAMPIRAN**



SKRIPSI

GEDUNG HOTEL IJEN  
PADJAJARAN SUITES  
HOTEL RESORT AND  
CONVENTION HALL  
MALANG

DIGAMBAR

DAVID SAFIUDIN  
NIM : 1021050

DOSEN PEMBIMBING 1

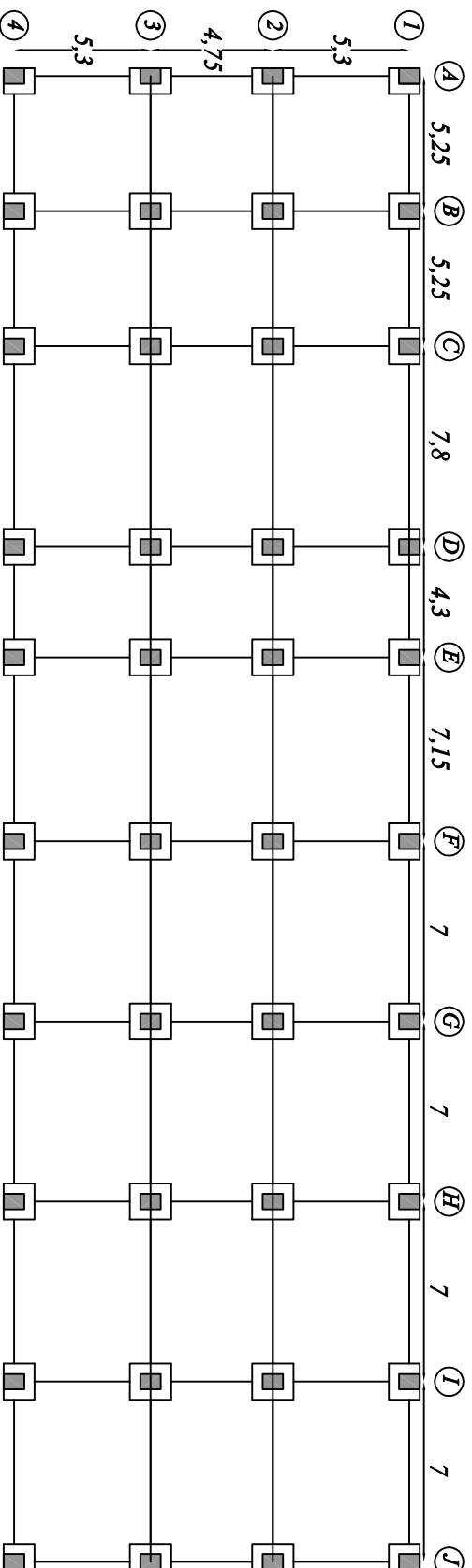
Ir: Bambang Wedyantadi, MT  
DOSEN PEMBIMBING 2

Ir: Ester Priskasari, MT  
NAMA GAMBAR

DENAH LANTAI 1

SKALA

NO LMBR      JMLH LMBR



Denah Pelat Cendawan





SKRIPSI

GEDUNG HOTEL IJEN  
PADJAJARAN SUITES  
HOTEL RESORT AND  
CONVENTION HALL  
MALANG

DIGAMBAR

DAVID SAFIUDIN  
NIM : 1021050

DOSEN PEMBIMBING 1

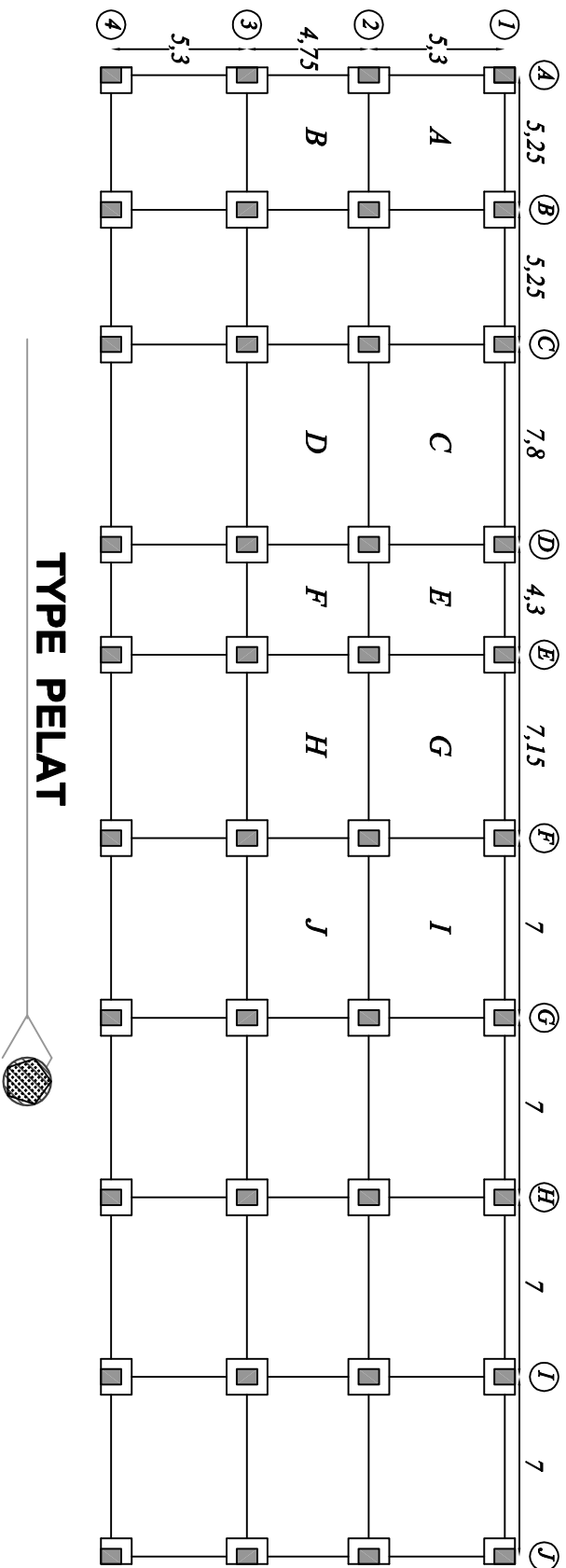
Ir:Bambang Wedyantadi,MT  
DOSEN PEMBIMBING 2

Ir:Ester Priskasari,MT  
NAMA GAMBAR

DENAH LANTAI 1

SKALA

NO LMBR	JMLH LMBR



STAAD SPACE FLAT SLAB

START JOB INFORMATION

ENGINEER DATE 09-Jul-14

END JOB INFORMATION

INPUT WIDTH 79

UNIT METER KG

JOINT COORDINATES

1 0 0 0; 2 0 0 5.3; 3 0 0 10.05; 4 0 0 15.35; 5 5.25 0 0; 6 5.25 0 5.3;  
7 5.25 0 10.05; 8 5.25 0 15.35; 9 10.5 0 0; 10 10.5 0 5.3; 11 10.5 0 10.05;  
12 10.5 0 15.35; 13 18.3 0 0; 14 18.3 0 5.3; 15 18.3 0 10.05; 16 18.3 0 15.35;  
17 22.6 0 0; 18 22.6 0 5.3; 19 22.6 0 10.05; 20 22.6 0 15.35; 21 29.75 0 0;  
22 29.75 0 5.3; 23 29.75 0 10.05; 24 29.75 0 15.35; 25 36.75 0 0;  
26 36.75 0 5.3; 27 36.75 0 10.05; 28 36.75 0 15.35; 29 43.75 0 0;  
30 43.75 0 5.3; 31 43.75 0 10.05; 32 43.75 0 15.35; 33 50.75 0 0;  
34 50.75 0 5.3; 35 50.75 0 10.05; 36 50.75 0 15.35; 37 57.75 0 0;  
38 57.75 0 5.3; 39 57.75 0 10.05; 40 57.75 0 15.35; 41 0 5 0; 42 0 5 5.3;  
43 0 5 10.05; 44 0 5 15.35; 45 5.25 5 0; 46 5.25 5 5.3; 47 5.25 5 10.05;  
48 5.25 5 15.35; 49 10.5 5 0; 50 10.5 5 5.3; 51 10.5 5 10.05; 52 10.5 5 15.35;  
53 18.3 5 0; 54 18.3 5 5.3; 55 18.3 5 10.05; 56 18.3 5 15.35; 57 22.6 5 0;  
58 22.6 5 5.3; 59 22.6 5 10.05; 60 22.6 5 15.35; 61 29.75 5 0; 62 29.75 5 5.3;  
63 29.75 5 10.05; 64 29.75 5 15.35; 65 36.75 5 0; 66 36.75 5 5.3;  
67 36.75 5 10.05; 68 36.75 5 15.35; 69 43.75 5 0; 70 43.75 5 5.3;  
71 43.75 5 10.05; 72 43.75 5 15.35; 73 50.75 5 0; 74 50.75 5 5.3;  
75 50.75 5 10.05; 76 50.75 5 15.35; 77 57.75 5 0; 78 57.75 5 5.3;  
79 57.75 5 10.05; 80 57.75 5 15.35; 1142 1.75 5 0; 1143 1.75 5 0.883333;  
1144 2.625 5 0; 1145 2.625 5 0.883333; 1146 3.5 5 0; 1147 3.5 5 0.883333;  
1148 4.375 5 0; 1149 4.375 5 0.883333; 1150 5.25 5 0.883333;  
1151 0.875 5 1.76667; 1152 0 5 1.76667; 1153 1.75 5 1.76667;  
1154 2.625 5 1.76667; 1155 3.5 5 1.76667; 1156 4.375 5 1.76667;  
1157 5.25 5 1.76667; 1158 0.875 5 2.65; 1159 0 5 2.65; 1160 1.75 5 2.65;  
1161 2.625 5 2.65; 1162 3.5 5 2.65; 1163 4.375 5 2.65; 1164 5.25 5 2.65;  
1165 0.875 5 3.53333; 1166 0 5 3.53333; 1167 1.75 5 3.53333;  
1168 2.625 5 3.53333; 1169 3.5 5 3.53333; 1170 4.375 5 3.53333;  
1171 5.25 5 3.53333; 1174 1.75 5 4.41667; 1175 2.625 5 4.41667;  
1176 3.5 5 4.41667; 1177 4.375 5 4.41667; 1178 5.25 5 4.41667; 1180 1.75 5 5.3;  
1181 2.625 5 5.3; 1182 3.5 5 5.3; 1183 4.375 5 5.3; 1186 1.75 5 6.25;  
1187 2.625 5 6.25; 1188 3.5 5 6.25; 1189 4.375 5 6.25; 1190 5.25 5 6.25;  
1191 0.875 5 7.2; 1192 0 5 7.2; 1193 1.75 5 7.2; 1194 2.625 5 7.2;  
1195 3.5 5 7.2; 1196 4.375 5 7.2; 1197 5.25 5 7.2; 1198 0.875 5 8.15;  
1199 0 5 8.15; 1200 1.75 5 8.15; 1201 2.625 5 8.15; 1202 3.5 5 8.15;  
1203 4.375 5 8.15; 1204 5.25 5 8.15; 1205 0.875 5 9.1; 1206 0 5 9.1;  
1207 1.75 5 9.1; 1208 2.625 5 9.1; 1209 3.5 5 9.1; 1210 4.375 5 9.1;  
1211 5.25 5 9.1; 1212 0.875 5 10.05; 1213 1.75 5 10.05; 1214 2.625 5 10.05;  
1215 3.5 5 10.05; 1216 4.375 5 10.05; 1217 0.875 5 10.9333; 1218 0 5 10.9333;  
1219 1.75 5 10.9333; 1220 2.625 5 10.9333; 1221 3.5 5 10.9333;  
1222 4.375 5 10.9333; 1223 5.25 5 10.9333; 1224 0.875 5 11.8167;  
1225 0 5 11.8167; 1226 1.75 5 11.8167; 1227 2.625 5 11.8167;  
1228 3.5 5 11.8167; 1229 4.375 5 11.8167; 1230 5.25 5 11.8167;  
1231 0.875 5 12.7; 1232 0 5 12.7; 1233 1.75 5 12.7; 1234 2.625 5 12.7;  
1235 3.5 5 12.7; 1236 4.375 5 12.7; 1237 5.25 5 12.7; 1238 0.875 5 13.5833;  
1239 0 5 13.5833; 1240 1.75 5 13.5833; 1241 2.625 5 13.5833;  
1242 3.5 5 13.5833; 1243 4.375 5 13.5833; 1244 5.25 5 13.5833;  
1245 0.875 5 14.4667; 1246 0 5 14.4667; 1247 1.75 5 14.4667;  
1248 2.625 5 14.4667; 1249 3.5 5 14.4667; 1250 4.375 5 14.4667;  
1251 5.25 5 14.4667; 1252 0.875 5 15.35; 1253 1.75 5 15.35; 1254 2.625 5 15.35;  
1255 3.5 5 15.35; 1256 4.375 5 15.35; 1257 9.625 5 0; 1258 9.625 5 0.883333;  
1259 10.5 5 0.883333; 1260 8.75 5 0; 1261 8.75 5 0.883333; 1262 7.875 5 0;  
1263 7.875 5 0.883333; 1264 7 5 0; 1265 7 5 0.883333; 1266 6.125 5 0;  
1267 6.125 5 0.883333; 1268 9.625 5 1.76667; 1269 10.5 5 1.76667;  
1270 8.75 5 1.76667; 1271 7.875 5 1.76667; 1272 7 5 1.76667;  
1273 6.125 5 1.76667; 1274 9.625 5 2.65; 1275 10.5 5 2.65; 1276 8.75 5 2.65;  
1277 7.875 5 2.65; 1278 7 5 2.65; 1279 6.125 5 2.65; 1280 9.625 5 3.53333;  
1281 10.5 5 3.53333; 1282 8.75 5 3.53333; 1283 7.875 5 3.53333;  
1284 7 5 3.53333; 1285 6.125 5 3.53333; 1286 9.625 5 4.41667;  
1287 10.5 5 4.41667; 1288 8.75 5 4.41667; 1289 7.875 5 4.41667;  
1290 7 5 4.41667; 1291 6.125 5 4.41667; 1292 9.625 5 5.3; 1293 8.75 5 5.3;  
1294 7.875 5 5.3; 1295 7 5 5.3; 1296 6.125 5 5.3; 1297 9.625 5 6.25;  
1298 10.5 5 6.25; 1299 8.75 5 6.25; 1300 7.875 5 6.25; 1301 7 5 6.25;  
1302 6.125 5 6.25; 1303 9.625 5 7.2; 1304 10.5 5 7.2; 1305 8.75 5 7.2;  
1306 7.875 5 7.2; 1307 7 5 7.2; 1308 6.125 5 7.2; 1309 9.625 5 8.15;  
1310 10.5 5 8.15; 1311 8.75 5 8.15; 1312 7.875 5 8.15; 1313 7 5 8.15;  
1314 6.125 5 8.15; 1315 9.625 5 9.1; 1316 10.5 5 9.1; 1317 8.75 5 9.1;  
1318 7.875 5 9.1; 1319 7 5 9.1; 1320 6.125 5 9.1; 1321 9.625 5 10.05;  
1322 8.75 5 10.05; 1323 7.875 5 10.05; 1324 7 5 10.05; 1325 6.125 5 10.05;  
1326 9.625 5 10.9333; 1327 10.5 5 10.9333; 1328 8.75 5 10.9333;

1329 7.875 5 10.9333; 1330 7 5 10.9333; 1331 6.125 5 10.9333;  
1332 9.625 5 11.8167; 1333 10.5 5 11.8167; 1334 8.75 5 11.8167;  
1335 7.875 5 11.8167; 1336 7 5 11.8167; 1337 6.125 5 11.8167;  
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1346 8.75 5 13.5833; 1347 7.875 5 13.5833; 1348 7 5 13.5833;  
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2076 56.75 5 14.4667; 2077 55.75 5 14.4667; 2078 54.75 5 14.4667;  
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2214 0 5 0.675; 2215 0.45 5 0.675; 2216 0.675 5 0.675; 2217 0.9 5 0.675;  
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2222 1.3 5 1.3; 2223 0 5 1.3; 2224 0.9 5 1.3; 2225 1.1 5 0;  
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2237 1.3 5 0.866667; 2238 1.1 5 1.08333; 2239 0.9 5 1.08333;  
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2248 0.45 5 1.3; 2249 0.675 5 1.3; 2250 1.75 5 1.3; 2251 1.525 5 0;  
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2306 0 5 5.075; 2307 0.45 5 5.3; 2308 0.45 5 5.075; 2309 0.675 5 5.3;  
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2318 0 5 4.625; 2319 0.45 5 4.625; 2320 0.675 5 4.625; 2321 0.9 5 4.625;  
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2326 1.3 5 4; 2327 0 5 4; 2328 0.9 5 4; 2329 1.1 5 5.3; 2330 1.1 5 5.08333;  
2331 0.9 5 5.08333; 2332 1.3 5 5.08333; 2333 1.1 5 4.86667; 2334 0.9 5 4.86667;  
2335 1.3 5 4.86667; 2336 1.1 5 4.65; 2337 0.9 5 4.65; 2338 1.3 5 4.65;  
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2347 0 5 4.2; 2348 0.45 5 4.2; 2349 0.675 5 4.2; 2350 0.9 5 4.2;  
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2376 1.525 5 4; 2377 0.175 5 4; 2378 0.175 5 3.76667; 2379 0 5 3.76667;  
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2384 0.7 5 4; 2385 0.7 5 3.76667; 2386 0.875 5 4; 2387 0.875 5 3.76667;  
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2399 0.525 5 3.53333; 2400 0.7 5 3.53333; 2401 1.05 5 3.53333;  
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## ELEMENT PROPERTY

1223 TO 1226 1229 TO 1244 1247 TO 1250 1253 TO 1256 1259 TO 1262 1265 TO 1634 -  
1637 TO 1642 1645 TO 1666 1669 TO 1674 1677 TO 1764 3539 TO 3572 -  
4437 TO 4440 8852 TO 8885 THICKNESS 0.2  
1767 TO 1771 1774 TO 1792 1795 TO 1799 1802 TO 2002 2005 TO 2009 2012 TO 2240 -  
4578 TO 4581 4720 TO 4723 4996 TO 4999 5136 TO 5139 5412 TO 5415 -  
5552 TO 5555 5832 TO 5835 5972 TO 5975 6248 TO 6251 6388 TO 6391 -  
6664 TO 6667 6804 TO 6807 7080 TO 7083 7220 TO 7223 8106 TO 8131 -  
8886 TO 8911 THICKNESS 0.16  
2241 TO 2256 2313 TO 2328 2385 TO 2400 2459 TO 2474 2531 TO 2546 2603 TO 2618 -  
2675 TO 2690 2747 TO 2762 2819 TO 2834 2891 TO 2906 2963 TO 2978 -  
3035 TO 3050 3107 TO 3122 3179 TO 3194 3251 TO 3266 3323 TO 3338 -  
3395 TO 3410 3467 TO 3482 3573 TO 3588 3645 TO 3660 3717 TO 3732 -  
3789 TO 3804 3861 TO 3876 3933 TO 3948 4005 TO 4020 4077 TO 4092 -  
4149 TO 4164 4221 TO 4236 4293 TO 4308 4365 TO 4380 THICKNESS 1.55  
2257 TO 2276 2329 TO 2348 2401 TO 2420 2475 TO 2494 2547 TO 2566 2619 TO 2638 -  
2691 TO 2710 2763 TO 2782 2835 TO 2854 2907 TO 2926 2979 TO 2998 -  
3051 TO 3070 3123 TO 3142 3195 TO 3214 3267 TO 3286 3339 TO 3358 -  
3411 TO 3430 3483 TO 3502 3589 TO 3608 3661 TO 3680 3733 TO 3752 -  
3805 TO 3824 3877 TO 3896 3949 TO 3968 4021 TO 4040 4093 TO 4112 -  
4165 TO 4184 4237 TO 4256 4309 TO 4328 4381 TO 4400 THICKNESS 1.4  
2277 TO 2312 2349 TO 2384 2421 TO 2456 2495 TO 2530 2567 TO 2602 2639 TO 2674 -  
2711 TO 2746 2783 TO 2818 2855 TO 2890 2927 TO 2962 2999 TO 3034 -  
3071 TO 3106 3143 TO 3178 3215 TO 3250 3287 TO 3322 3359 TO 3394 -  
3431 TO 3466 3503 TO 3538 3609 TO 3644 3681 TO 3716 3753 TO 3788 -  
3825 TO 3860 3897 TO 3932 3969 TO 4004 4041 TO 4076 4113 TO 4148 -  
4185 TO 4220 4257 TO 4292 4329 TO 4364 4401 TO 4436 THICKNESS 0.2  
4442 TO 4445 4510 TO 4513 4582 TO 4585 4652 TO 4655 4724 TO 4727 4792 TO 4795 -  
4860 TO 4863 4928 TO 4931 5000 TO 5003 5068 TO 5071 5140 TO 5143 -  
5208 TO 5211 5276 TO 5279 5344 TO 5347 5416 TO 5419 5484 TO 5487 -  
5556 TO 5559 5624 TO 5627 5696 TO 5699 5764 TO 5767 5836 TO 5839 -  
5904 TO 5907 5976 TO 5979 6044 TO 6047 6112 TO 6115 6180 TO 6183 -  
6252 TO 6255 6320 TO 6323 6392 TO 6395 6460 TO 6463 6528 TO 6531 -  
6596 TO 6599 6668 TO 6671 6736 TO 6739 6808 TO 6811 6876 TO 6879 -  
6944 TO 6947 7012 TO 7015 7084 TO 7087 7152 TO 7155 7224 TO 7227 -  
7292 TO 7295 THICKNESS 1.7  
4446 TO 4465 4514 TO 4533 4586 TO 4605 4656 TO 4675 4728 TO 4747 4796 TO 4815 -  
4864 TO 4883 4932 TO 4951 5004 TO 5023 5072 TO 5091 5144 TO 5163 -  
5212 TO 5231 5280 TO 5299 5348 TO 5367 5420 TO 5439 5488 TO 5507 -  
5560 TO 5579 5628 TO 5647 5700 TO 5719 5768 TO 5787 5840 TO 5859 -  
5908 TO 5927 5980 TO 5999 6048 TO 6067 6116 TO 6135 6184 TO 6203 -  
6256 TO 6275 6324 TO 6343 6396 TO 6415 6464 TO 6483 6532 TO 6551 -  
6600 TO 6619 6672 TO 6691 6740 TO 6759 6812 TO 6831 6880 TO 6899 -  
6948 TO 6967 7016 TO 7035 7088 TO 7107 7156 TO 7175 7228 TO 7247 -  
7296 TO 7315 THICKNESS 1.3  
4466 TO 4509 4534 TO 4577 4606 TO 4649 4676 TO 4719 4748 TO 4791 4816 TO 4859 -  
4884 TO 4927 4952 TO 4995 5024 TO 5067 5092 TO 5135 5164 TO 5207 -  
5232 TO 5275 5300 TO 5343 5368 TO 5411 5440 TO 5483 5508 TO 5551 -  
5580 TO 5623 5648 TO 5691 5720 TO 5763 5788 TO 5831 5860 TO 5903 -  
5928 TO 5971 6000 TO 6043 6068 TO 6111 6136 TO 6179 6204 TO 6247 -  
6276 TO 6319 6344 TO 6387 6416 TO 6459 6484 TO 6527 6552 TO 6595 -  
6620 TO 6663 6692 TO 6735 6760 TO 6803 6832 TO 6875 6900 TO 6943 -  
6968 TO 7011 7036 TO 7079 7108 TO 7151 7176 TO 7219 7248 TO 7291 -  
7316 TO 7359 THICKNESS 0.18  
7360 TO 7363 7420 TO 7423 7480 TO 7483 7540 TO 7543 7600 TO 7603 7660 TO 7663 -

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7742 TO 7745 7802 TO 7805 7862 TO 7865 7922 TO 7925 7982 TO 7985 -
8042 TO 8045 8132 TO 8135 8192 TO 8195 8252 TO 8255 8312 TO 8315 -
8372 TO 8375 8432 TO 8435 8492 TO 8495 8552 TO 8555 8612 TO 8615 -
8672 TO 8675 8732 TO 8735 8792 TO 8795 8912 TO 8915 8972 TO 8975 -
9032 TO 9035 9092 TO 9095 9152 TO 9155 9212 TO 9215 9272 TO 9275 -
9332 TO 9335 9392 TO 9395 9452 TO 9455 9512 TO 9515 9572 TO 9574 -
9575 THICKNESS 1.7
7364 TO 7391 7424 TO 7451 7484 TO 7511 7544 TO 7571 7604 TO 7631 7664 TO 7691 -
7746 TO 7773 7806 TO 7833 7866 TO 7893 7926 TO 7953 7986 TO 8013 -
8046 TO 8073 8136 TO 8163 8196 TO 8223 8256 TO 8283 8316 TO 8343 -
8376 TO 8403 8436 TO 8463 8496 TO 8523 8556 TO 8583 8616 TO 8643 -
8676 TO 8703 8736 TO 8763 8796 TO 8823 8916 TO 8943 8976 TO 9003 -
9036 TO 9063 9096 TO 9123 9156 TO 9183 9216 TO 9243 9276 TO 9303 -
9336 TO 9363 9396 TO 9423 9456 TO 9483 9516 TO 9543 9576 TO 9602 -
9603 THICKNESS 1.5
7392 TO 7419 7452 TO 7479 7512 TO 7539 7572 TO 7599 7632 TO 7659 7692 TO 7719 -
7774 TO 7801 7834 TO 7861 7894 TO 7921 7954 TO 7981 8014 TO 8041 -
8074 TO 8101 8164 TO 8191 8224 TO 8251 8284 TO 8311 8344 TO 8371 -
8404 TO 8431 8464 TO 8491 8524 TO 8551 8584 TO 8611 8644 TO 8671 -
8704 TO 8731 8764 TO 8791 8824 TO 8851 8944 TO 8971 9004 TO 9031 -
9064 TO 9091 9124 TO 9151 9184 TO 9211 9244 TO 9271 9304 TO 9331 -
9364 TO 9391 9424 TO 9451 9484 TO 9511 9544 TO 9571 9604 TO 9630 -
9631 THICKNESS 0.18
DEFINE MATERIAL START
ISOTROPIC CONCRETE
E 2.21467e+009
POISSON 0.17
DENSITY 2402.62
ALPHA 1e-005
DAMP 0.05
END DEFINE MATERIAL
CONSTANTS
MATERIAL CONCRETE MEMB 95 TO 130 132 TO 134 1223 TO 1226 1229 TO 1244 1247 -
1248 TO 1250 1253 TO 1256 1259 TO 1262 1265 TO 1634 1637 TO 1642 1645 TO 1666 -
1669 TO 1674 1677 TO 1764 1767 TO 1771 1774 TO 1792 1795 TO 1799 -
1802 TO 2002 2005 TO 2009 2012 TO 2456 2459 TO 4649 4652 TO 5691 -
5696 TO 7719 7742 TO 8101 8106 TO 9631
MEMBER PROPERTY AMERICAN
95 TO 130 132 TO 134 4441 PRIS YD 0.8 ZD 0.6
SUPPORTS
1 TO 40 FIXED
LOAD 1 Beban qu
ELEMENT LOAD
1223 TO 1226 1229 TO 1244 1247 TO 1250 1253 TO 1256 1259 TO 1262 1265 TO 1322 -
2241 TO 2456 2459 TO 3106 4437 TO 4440 PR GY -22284.6
1323 TO 1424 3107 TO 3538 4005 TO 4436 PR GY -29087.2
1425 TO 1543 3539 TO 4004 8852 TO 8885 8972 TO 9031 9092 TO 9151 9212 TO 9271 -
9332 TO 9391 9452 TO 9511 9572 TO 9631 PR GY -31395.3
1544 TO 1628 8106 TO 8191 8252 TO 8311 8372 TO 8431 8492 TO 8551 8612 TO 8671 -
8732 TO 8791 8886 TO 8971 9032 TO 9091 9152 TO 9211 9272 TO 9331 -
9392 TO 9451 9512 TO 9571 PR GY -24428.2
1629 TO 1634 1637 TO 1642 1645 TO 1666 1669 TO 1674 1677 TO 1764 7420 TO 7479 -
7540 TO 7599 7660 TO 7719 7802 TO 7861 7922 TO 7981 8042 TO 8101 -
8192 TO 8251 8312 TO 8371 8432 TO 8491 8552 TO 8611 8672 TO 8731 -
8792 TO 8851 PR GY -27706.1
1767 TO 1771 1774 TO 1792 1795 TO 1799 1802 TO 1883 6528 TO 6943 7360 TO 7419 -
7480 TO 7539 7600 TO 7659 7742 TO 7801 7862 TO 7921 7982 TO 8040 -
8041 PR GY -29080.2
1884 TO 2002 2005 TO 2009 2012 TO 2240 4442 TO 4649 4652 TO 5691 5696 TO 6527 -
6944 TO 7359 PR GY -30661.3
PERFORM ANALYSIS
FINISH

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Software licensed to Snow Panther [LZ0]

Job No	Sheet No <b>1</b>	Rev
Part		
Ref		
By	Date 09-Jul-14	Chd
Client	File Pelat Cendawan dengan	Date/Time 08-Aug-2014 05:34

Plate	L/C	SQX (N/mm <sup>2</sup> )	SQY (N/mm <sup>2</sup> )	MX (kNm/m)	MY (kNm/m)	MXY (kNm/m)	SX (N/mm <sup>2</sup> )	SY (N/mm <sup>2</sup> )	SXY (N/mm <sup>2</sup> )
1281	1	3.289	-3.744	-68.160	-342.510	9.965	-1.502	-0.897	0.913
1282	1	-0.244	-1.037	51.557	-208.222	-64.306	-0.948	-0.205	0.610
1283	1	0.424	-0.875	130.202	-155.919	-23.453	-1.279	-0.404	0.352
1284	1	-1.828	-1.825	42.941	-182.024	-1.004	-1.069	-0.484	0.191
1285	1	1.222	-2.360	-93.013	-234.329	19.445	-0.781	-0.530	0.050
1286	1	-2.508	-3.125	-135.876	-302.314	-34.907	-0.782	-0.347	0.217
1287	1	0.743	1.165	-40.641	-145.896	4.107	-1.723	-1.194	-1.026
1288	1	-0.220	1.480	48.906	-175.981	-6.578	-1.041	-0.432	-0.388
1289	1	0.139	0.563	146.106	-142.767	-9.077	-1.429	-0.590	-0.240
1290	1	-1.430	1.333	58.339	-167.600	-36.948	-1.203	-0.627	0.113
1291	1	1.005	2.279	-97.497	-213.264	-15.597	-0.831	-0.682	0.144
1292	1	-0.247	1.022	-106.859	-164.185	-28.858	-0.881	-1.039	0.347
1293	1	0.611	-0.201	24.851	-51.276	-5.725	-0.061	-0.552	-0.060
1294	1	0.448	0.369	75.528	-18.243	-1.075	-0.814	-0.864	-0.262
1295	1	0.291	0.618	135.710	3.955	-17.592	-0.974	-0.697	-0.150
1296	1	-0.729	0.727	76.206	-0.076	-32.022	-1.023	-0.758	-0.068
1297	1	-0.550	0.594	-26.995	-23.912	-15.564	-0.916	-0.852	0.003
1298	1	-0.871	-0.248	-91.539	-57.266	-2.411	-0.660	-0.896	0.133
1323	1	-1.923	0.576	264.824	74.642	-85.402	-0.762	-1.769	-0.718
1329	1	-2.778	-0.567	373.575	-115.762	-53.077	-0.775	-1.253	-0.391
1335	1	-1.108	-0.054	302.567	-336.309	-35.541	-0.899	-1.491	-0.238
1341	1	-1.417	1.709	342.786	-226.280	20.050	-0.987	-1.337	-0.124
1347	1	-3.541	0.312	443.394	130.425	29.105	-0.975	-1.122	-0.027
1353	1	-0.421	-1.355	312.619	256.163	126.537	-0.353	-1.280	-0.183
1359	1	-3.970	-1.721	376.059	480.830	-78.180	-0.432	-0.157	0.946
1365	1	-1.109	-2.496	433.131	-55.623	-62.657	-1.300	-0.365	0.254
1371	1	0.126	-0.004	339.592	-277.804	0.313	-1.329	-0.309	0.005
1377	1	-1.102	2.488	431.924	-56.001	63.325	-1.286	-0.378	-0.247
1383	1	-3.977	1.732	374.920	480.281	78.453	-0.414	-0.181	-0.942
1384	1	0.477	2.364	218.216	303.256	35.539	-0.713	-0.773	-0.255
1385	1	-2.278	1.990	35.490	231.424	5.329	-0.732	-0.690	-0.128
1386	1	0.552	1.286	-75.565	185.427	-10.621	-0.790	-0.677	-0.033
1387	1	-0.783	1.836	1.469	209.674	-36.784	-0.671	-0.638	-0.019
1388	1	3.064	3.311	111.659	294.690	16.915	-0.626	-0.335	0.246
1389	1	-0.425	1.331	310.615	255.330	-125.489	-0.336	-1.294	0.174
1390	1	0.337	-2.714	212.042	262.759	-2.139	-0.650	-0.929	0.075
1391	1	-1.720	-1.402	14.960	208.571	-32.101	-0.778	-0.817	0.009
1392	1	0.319	-0.937	-85.919	178.141	-6.246	-0.857	-0.804	0.075
1393	1	-0.690	-1.785	14.444	195.606	-6.287	-0.673	-0.771	0.040
1394	1	0.781	-1.152	85.632	156.067	13.851	-0.701	-1.036	0.156
1395	1	-3.518	-0.314	439.790	129.490	-28.296	-0.969	-1.140	0.006
1396	1	-1.139	-0.925	156.722	65.334	-25.059	-0.922	-0.875	0.147
1397	1	-1.040	-0.798	-11.452	8.360	-34.124	-0.974	-0.790	0.071
1398	1	0.339	-0.766	-84.162	0.025	-17.883	-0.940	-0.755	0.009
1399	1	0.489	-0.400	-24.276	23.734	-9.900	-0.840	-0.842	-0.049



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Plate	L/C	SQX (N/mm <sup>2</sup> )	SQY (N/mm <sup>2</sup> )	MX (kNm/m)	MY (kNm/m)	MXY (kNm/m)	SX (N/mm <sup>2</sup> )	SY (N/mm <sup>2</sup> )	SXY (N/mm <sup>2</sup> )
1400	1	1.057	0.315	68.973	57.697	-9.578	-0.650	-0.910	0.052
1401	1	-1.406	-1.710	338.924	-226.308	-19.143	-1.002	-1.354	0.092
1407	1	-1.102	0.059	298.580	-335.780	35.828	-0.939	-1.502	0.206
1413	1	-2.753	0.554	369.058	-115.715	53.064	-0.840	-1.258	0.370
1419	1	-1.931	-0.543	261.902	74.221	84.402	-0.832	-1.763	0.702
1425	1	8.870	5.414	-1.1E 3	-194.785	-67.737	-3.534	-2.163	-1.743
1432	1	3.210	1.463	-809.008	66.234	70.639	-1.588	-1.508	-0.820
1439	1	2.887	0.835	-684.503	240.532	1.845	-1.592	-1.598	-0.501
1446	1	3.384	-2.027	-705.614	151.144	-40.875	-1.603	-1.441	-0.124
1453	1	4.190	-1.536	-846.392	-143.102	-68.825	-1.646	-1.205	0.070
1460	1	8.384	-5.133	-1.13E 3	-432.067	21.710	-2.607	-1.357	0.673
1467	1	10.509	8.138	-1.13E 3	-617.391	-84.153	-2.342	-0.536	-0.278
1474	1	1.656	3.103	-743.347	33.400	65.940	-1.741	-0.468	-0.048
1481	1	2.566	0.009	-628.196	218.533	1.140	-1.684	-0.496	0.010
1488	1	1.653	-3.082	-740.859	33.717	-63.686	-1.733	-0.479	0.069
1495	1	10.483	-8.105	-1.13E 3	-616.013	85.833	-2.330	-0.556	0.301
1496	1	4.429	0.598	109.688	-176.722	-76.028	-2.162	-0.664	0.174
1497	1	1.945	-0.331	710.603	46.652	-25.806	-2.098	-0.693	0.105
1498	1	0.035	-0.013	903.190	101.584	1.734	-2.088	-0.681	0.039
1499	1	-1.887	-0.383	734.798	42.845	31.210	-2.097	-0.685	-0.023
1500	1	-4.552	0.847	149.100	-202.567	85.641	-2.178	-0.632	-0.084
1501	1	-11.775	-10.284	-1.13E 3	-697.872	-110.798	-2.339	-0.308	-0.142
1502	1	8.351	5.131	-1.12E 3	-430.246	-19.491	-2.595	-1.368	-0.647
1503	1	4.575	-0.077	99.657	-197.220	58.892	-2.186	-0.723	0.030
1504	1	1.980	0.154	717.368	46.512	23.898	-2.166	-0.645	0.094
1505	1	0.039	0.133	906.157	104.309	-0.598	-2.168	-0.627	0.036
1506	1	-1.909	0.176	742.001	43.483	-27.861	-2.153	-0.638	-0.019
1507	1	-4.606	-0.132	136.735	-213.644	-65.661	-2.144	-0.696	0.054
1508	1	-8.373	7.017	-1.09E 3	-415.707	36.512	-2.568	-1.396	0.784
1509	1	4.163	1.546	-838.240	-141.718	70.228	-1.646	-1.219	-0.048
1510	1	3.316	0.744	98.482	40.385	114.303	-2.134	-0.957	-0.019
1511	1	1.833	0.360	681.796	116.721	46.151	-2.188	-0.649	0.100
1512	1	0.053	0.145	886.982	157.735	-2.298	-2.207	-0.558	0.030
1513	1	-1.744	0.396	703.609	119.111	-51.181	-2.171	-0.649	-0.037
1514	1	-3.104	0.890	143.417	60.313	-120.704	-2.117	-0.963	0.105
1515	1	-3.389	0.843	-750.035	-98.585	-59.389	-1.600	-1.222	0.189
1516	1	3.359	2.027	-696.816	151.726	42.180	-1.620	-1.455	0.145
1523	1	2.864	-0.823	-674.801	240.660	-0.768	-1.632	-1.610	0.520
1530	1	3.192	-1.444	-797.616	66.881	-69.229	-1.650	-1.517	0.833
1537	1	8.792	-5.370	-1.09E 3	-192.902	67.517	-3.626	-2.174	1.756
1594	1	6.419	-3.724	-494.406	-541.500	-99.440	-0.327	0.079	-0.892
1595	1	2.197	0.238	-107.187	-212.720	-39.263	-0.617	-0.724	-0.182
1596	1	0.274	-0.588	27.501	-133.453	10.039	-0.672	-0.685	0.027
1597	1	-1.689	0.386	-19.560	-194.589	62.691	-0.712	-0.666	0.188
1598	1	-6.045	-5.430	-324.361	-491.571	83.817	-0.560	0.025	0.662



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1599	1	1.420	-0.415	-415.149	-219.263	195.535	-0.425	-1.303	0.093
1600	1	1.590	1.007	-110.257	-188.830	32.210	-0.637	-0.840	0.083
1601	1	0.261	-0.012	43.164	-135.141	11.023	-0.798	-0.792	0.082
1602	1	-1.147	0.833	-24.445	-179.333	-12.427	-0.767	-0.787	0.135
1603	1	-1.164	0.935	-257.965	-177.730	-146.728	-0.829	-1.286	0.372
1604	1	3.921	-0.297	-541.049	-124.644	78.472	-1.023	-1.142	0.028
1605	1	1.470	0.774	-138.226	-56.016	60.843	-1.069	-0.852	0.129
1606	1	0.253	0.443	8.441	-20.807	11.662	-1.058	-0.781	0.114
1607	1	-0.831	0.697	-48.185	-33.492	-38.422	-1.051	-0.926	0.141
1608	1	-2.900	-0.453	-333.027	-94.088	-43.640	-0.861	-1.150	0.245
1709	1	11.439	-11.664	-1.03E 3	-674.651	114.208	-1.330	-0.025	-0.102
1710	1	4.900	0.510	-38.775	-269.157	-89.927	-1.286	-0.641	0.104
1711	1	2.331	-0.631	441.539	-41.567	-35.043	-1.224	-0.701	0.115
1712	1	0.737	-0.150	662.710	38.036	-0.773	-1.229	-0.753	0.103
1713	1	-0.746	-0.168	672.958	29.782	32.882	-1.217	-0.812	0.082
1714	1	-2.443	-0.830	468.320	-70.852	68.584	-1.165	-0.881	0.099
1715	1	-5.383	0.651	-10.471	-339.881	135.676	-1.120	-0.967	0.219
1716	1	-13.611	-14.530	-1.11E 3	-853.809	-147.222	-0.843	-0.167	0.853
1717	1	6.512	7.577	-986.659	-368.047	5.354	-1.297	-1.393	-0.459
1718	1	4.446	0.188	-59.264	-265.078	76.139	-1.141	-0.716	0.033
1719	1	2.309	0.211	448.136	-59.231	39.201	-1.212	-0.715	0.131
1720	1	0.738	0.080	670.860	20.372	13.582	-1.233	-0.716	0.108
1721	1	-0.760	0.092	679.595	10.055	-1.854	-1.220	-0.777	0.043
1722	1	-2.397	0.225	472.404	-92.686	-33.887	-1.148	-0.910	0.002
1723	1	-4.773	0.307	-39.967	-339.101	-82.771	-0.945	-1.060	0.032
1724	1	-6.870	8.814	-1.04E 3	-431.836	33.953	-0.897	-1.734	0.187
1725	1	3.295	-0.734	-674.269	-113.168	50.222	-0.747	-1.120	-0.060
1726	1	2.748	1.261	-44.563	3.773	104.576	-1.086	-1.019	0.060
1727	1	1.925	0.443	412.685	43.380	66.073	-1.164	-0.736	0.190
1728	1	0.636	0.225	645.021	83.091	20.818	-1.240	-0.643	0.136
1729	1	-0.621	0.251	651.309	78.607	-24.168	-1.256	-0.683	0.014
1730	1	-1.924	0.499	428.635	30.662	-76.236	-1.205	-0.868	-0.103
1731	1	-2.634	1.647	-24.546	-4.909	-118.667	-1.138	-1.227	-0.071
1732	1	-2.873	-1.056	-595.291	-133.967	-68.743	-0.888	-1.515	0.223
1835	1	3.834	-1.376	-319.983	-371.258	-33.035	-2.210	-0.473	-0.094
1836	1	-1.776	-4.156	-207.595	-248.760	-32.655	-2.055	-0.956	0.184
1837	1	3.738	-2.761	97.493	-167.879	-34.998	-2.663	-1.107	0.055
1838	1	0.206	-0.014	319.426	-82.140	-1.732	-2.588	-1.085	-0.166
1839	1	-3.246	-2.150	162.036	-154.379	44.888	-2.662	-1.081	-0.354
1840	1	-0.028	-4.631	-176.570	-288.088	39.723	-1.939	-1.088	-0.510
1841	1	-2.873	-4.807	-275.337	-389.177	-17.245	-1.770	-1.046	-0.066
1842	1	-0.215	-2.488	-276.931	-167.196	103.124	-2.215	-1.932	-0.864
1843	1	-1.541	3.560	-241.413	-230.214	-14.468	-1.790	-1.073	-0.257
1844	1	2.982	1.594	122.408	-144.508	19.225	-2.706	-1.104	-0.348
1845	1	0.229	0.334	331.868	-100.471	-1.070	-2.638	-1.049	-0.154



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Plate	L/C	SQX (N/mm <sup>2</sup> )	SQY (N/mm <sup>2</sup> )	MX (kNm/m)	MY (kNm/m)	MXY (kNm/m)	SX (N/mm <sup>2</sup> )	SY (N/mm <sup>2</sup> )	SXY (N/mm <sup>2</sup> )
1846	1	-2.470	1.418	197.279	-141.253	-16.211	-2.712	-1.222	0.034
1847	1	1.376	2.181	-208.334	-238.486	1.587	-1.822	-1.208	-0.114
1848	1	-0.359	0.900	-238.745	-181.630	-11.689	-1.690	-1.427	-0.138
1849	1	3.885	-0.409	-401.001	-121.898	-9.824	-1.409	-1.631	-0.342
1850	1	0.947	1.193	-173.196	-59.593	-9.135	-1.965	-1.563	-0.068
1851	1	1.638	0.754	144.457	14.137	22.486	-2.420	-1.251	-0.136
1852	1	0.178	0.641	321.260	41.778	-1.968	-2.541	-1.133	-0.141
1853	1	-1.336	0.678	213.202	13.088	-36.686	-2.420	-1.191	-0.206
1854	1	0.188	1.749	-136.938	-61.029	-7.753	-2.031	-1.325	-0.390
1855	1	-2.602	-1.060	-245.424	-126.112	1.224	-1.831	-1.387	-0.106
1954	1	-2.887	5.005	298.202	407.044	-23.734	-2.045	-1.028	0.080
1955	1	0.104	5.100	207.033	310.500	41.642	-2.201	-0.991	0.523
1956	1	-3.703	2.399	-165.620	167.356	50.970	-3.068	-0.980	0.321
1957	1	-0.026	0.067	-367.080	81.266	0.114	-2.997	-0.988	0.131
1958	1	3.633	2.362	-172.182	163.816	-51.122	-3.076	-0.953	-0.064
1959	1	-0.101	5.068	198.547	305.317	-41.154	-2.201	-0.953	-0.322
1960	1	2.851	5.001	290.429	398.189	26.872	-2.075	-1.088	0.033
1961	1	-0.295	-0.968	261.497	193.874	-8.556	-2.036	-1.462	-0.109
1962	1	1.627	-2.359	245.247	260.351	4.208	-2.128	-1.189	-0.016
1963	1	-2.906	-1.616	-202.862	154.881	-15.285	-3.203	-1.204	-0.156
1964	1	-0.024	-0.338	-386.112	101.774	-0.843	-3.092	-0.977	0.131
1965	1	2.852	-1.589	-208.838	152.307	14.009	-3.206	-1.194	0.433
1966	1	-1.631	-2.310	238.153	257.036	-3.967	-2.099	-1.166	0.256
1967	1	0.330	-1.063	255.246	190.635	6.138	-2.033	-1.428	0.442
1968	1	-2.631	1.104	267.450	132.327	5.421	-2.119	-1.425	-0.022
1969	1	0.282	-1.905	167.459	66.630	-4.484	-2.377	-1.378	0.270
1970	1	-1.603	-0.751	-223.270	-15.188	-37.886	-2.880	-1.229	0.116
1971	1	-0.013	-0.732	-374.180	-49.829	-1.297	-3.029	-1.158	0.127
1972	1	1.580	-0.732	-227.502	-16.060	36.088	-2.853	-1.248	0.150
1973	1	-0.316	-1.886	161.200	64.443	3.847	-2.271	-1.394	-0.031
1974	1	2.544	1.089	256.646	127.354	-7.029	-1.973	-1.407	0.240
2073	1	-2.698	4.833	171.099	350.203	-73.634	-4.070	-3.345	2.931
2074	1	0.075	4.940	77.292	264.120	45.314	-3.096	-0.724	2.160
2075	1	-2.977	1.965	-283.033	122.615	55.225	-4.545	-0.824	0.866
2076	1	0.514	0.107	-408.250	66.941	-2.970	-3.939	-0.986	0.157
2077	1	4.330	2.763	-140.828	181.162	-49.438	-3.829	-1.012	-0.249
2078	1	-0.380	5.565	257.814	333.964	-36.333	-2.661	-0.996	-0.593
2079	1	2.701	5.005	323.055	418.906	32.205	-2.477	-1.115	-0.177
2080	1	-0.582	-1.356	132.328	166.474	43.565	-4.814	-2.679	-2.803
2081	1	1.912	-1.887	130.382	231.920	-10.555	-3.081	-0.925	-0.885
2082	1	-2.275	-1.306	-317.272	120.609	-9.544	-4.894	-1.235	-0.984
2083	1	0.507	-0.308	-425.465	89.358	12.156	-4.090	-0.906	-0.205
2084	1	3.448	-1.845	-179.202	166.467	25.842	-4.002	-1.271	0.236
2085	1	-1.934	-2.581	296.268	279.512	-1.156	-2.566	-1.222	0.084
2086	1	0.094	-0.952	283.432	202.711	8.547	-2.465	-1.493	0.277



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Plate	L/C	SQX (N/mm <sup>2</sup> )	SQY (N/mm <sup>2</sup> )	MX (kNm/m)	MY (kNm/m)	MXY (kNm/m)	SX (N/mm <sup>2</sup> )	SY (N/mm <sup>2</sup> )	SXY (N/mm <sup>2</sup> )
2087	1	-1.292	0.584	28.609	76.624	-0.479	-0.644	-1.244	-0.227
2088	1	0.890	-1.892	60.649	36.231	-9.591	-2.267	-1.971	-0.925
2089	1	-1.292	-0.490	-314.438	-33.467	-31.136	-3.374	-1.630	-0.811
2090	1	0.311	-0.691	-409.562	-58.967	19.182	-3.644	-1.405	-0.431
2091	1	1.841	-0.851	-210.050	-16.116	52.429	-3.401	-1.383	-0.176
2092	1	-0.349	-2.064	207.157	71.943	7.754	-2.754	-1.483	-0.261
2093	1	2.536	1.095	287.744	136.525	-7.292	-2.401	-1.457	0.041
2192	1	2.891	-4.995	-297.583	-406.523	22.864	-2.061	-1.023	-0.063
2193	1	-0.102	-5.072	-206.420	-309.643	-42.162	-2.236	-0.976	0.380
2194	1	3.663	-2.385	163.183	-167.882	-51.420	-3.135	-0.963	0.162
2195	1	-0.008	-0.063	360.447	-83.948	-0.289	-3.083	-0.982	-0.027
2196	1	-3.680	-2.388	160.583	-168.348	50.734	-3.165	-0.966	-0.209
2197	1	0.096	-5.053	-209.814	-309.590	42.064	-2.295	-0.999	-0.401
2198	1	-2.911	-4.902	-302.627	-408.501	-19.450	-2.107	-1.019	0.132
2199	1	0.292	0.960	-261.015	-193.631	8.334	-2.048	-1.463	-0.233
2200	1	-1.622	2.347	-244.904	-260.169	-5.033	-2.167	-1.183	-0.131
2201	1	2.877	1.609	200.236	-155.728	13.855	-3.287	-1.195	-0.297
2202	1	-0.007	0.342	379.937	-104.286	-0.387	-3.196	-0.966	-0.013
2203	1	-2.893	1.616	197.964	-156.239	-14.179	-3.311	-1.201	0.265
2204	1	1.610	2.364	-247.259	-260.292	5.591	-2.220	-1.204	0.083
2205	1	-0.268	0.861	-263.181	-193.625	-8.800	-2.065	-1.465	0.074
2206	1	2.629	-1.106	-267.543	-132.538	-5.794	-2.150	-1.428	-0.116
2207	1	-0.292	1.894	-168.131	-67.216	3.500	-2.422	-1.376	0.172
2208	1	1.591	0.747	220.225	14.058	36.138	-2.982	-1.222	-0.001
2209	1	-0.005	0.741	368.621	48.074	-0.547	-3.162	-1.133	0.001
2210	1	-1.601	0.751	219.000	13.344	-36.683	-3.020	-1.206	-0.011
2211	1	0.274	1.889	-170.159	-68.893	-3.056	-2.506	-1.344	-0.207
2212	1	-2.679	-1.089	-272.516	-135.266	5.982	-2.315	-1.429	0.088
2531	1	4.203	3.672	-6.45E 3	-4.9E 3	-4.14E 3	-0.630	-0.591	-0.384
2532	1	2.410	0.686	-3.49E 3	-325.183	-749.050	-0.368	-0.035	-0.061
2533	1	1.646	0.258	-2.15E 3	-290.434	151.949	-0.305	0.125	0.042
2534	1	1.603	-1.402	-1.9E 3	-403.728	899.910	-0.327	0.215	0.160
2535	1	0.350	1.132	140.069	-1.89E 3	-323.546	-0.014	-0.376	-0.045
2536	1	1.556	1.436	-1.55E 3	-1.85E 3	-1.14E 3	-0.189	-0.209	-0.137
2537	1	1.294	0.575	-1.09E 3	-854.154	-123.668	-0.136	0.016	-0.030
2538	1	0.553	-0.055	-66.593	-223.291	-66.132	-0.017	0.282	-0.030
2539	1	0.148	0.510	-140.516	-1.18E 3	-8.312	-0.002	-0.322	-0.007
2540	1	0.521	0.879	-102.078	-1.37E 3	-204.396	-0.035	-0.169	-0.062
2541	1	0.727	0.834	-209.592	-957.502	-351.867	-0.039	-0.003	-0.110
2542	1	0.354	0.737	-64.899	-247.579	-169.386	-0.002	0.207	-0.063
2543	1	0.024	0.279	-7.003	-1.03E 3	71.050	-0.018	-0.297	0.013
2544	1	0.147	0.604	-99.986	-921.583	-57.723	-0.027	-0.099	-0.056
2545	1	0.260	0.806	-18.422	-631.879	-216.108	-0.012	0.015	-0.123
2546	1	0.170	1.145	-3.451	-169.706	-132.374	-0.007	0.095	-0.076
2547	1	1.926	1.325	-1.4E 3	-810.358	-742.970	-0.449	-0.145	-0.239





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Plate	L/C	SQX (N/mm <sup>2</sup> )	SQY (N/mm <sup>2</sup> )	MX (kNm/m)	MY (kNm/m)	MXY (kNm/m)	SX (N/mm <sup>2</sup> )	SY (N/mm <sup>2</sup> )	SXY (N/mm <sup>2</sup> )
2548	1	1.345	-0.464	-634.220	46.374	-21.959	-0.337	0.188	0.099
2549	1	0.067	0.138	169.703	-231.401	-58.913	0.003	-0.036	-0.028
2550	1	0.221	0.655	58.142	-281.681	-281.215	-0.006	0.079	-0.112
2551	1	-0.046	0.057	-45.312	45.566	-128.950	0.005	0.073	-0.044
2552	1	-0.001	0.669	-129.078	-328.265	-191.289	-0.048	-0.030	-0.096
2553	1	-0.086	0.147	-42.467	196.440	-19.477	-0.006	0.129	-0.016
2554	1	-0.035	0.220	-155.093	-324.942	36.333	-0.034	-0.018	-0.006
2555	1	-0.038	0.206	168.293	250.621	-110.733	-0.011	0.146	-0.014
2556	1	0.029	0.094	133.169	-277.833	94.597	0.016	-0.034	-0.009
2557	1	1.133	-0.508	-980.904	178.075	213.331	-0.008	0.141	-0.031
2558	1	1.173	0.741	-614.241	-124.517	21.920	-0.043	-0.030	0.008
2559	1	-0.089	0.344	-174.845	-1.04E 3	209.978	0.009	-0.335	0.052
2560	1	-0.395	0.582	-255.695	-434.348	-75.164	-0.000	0.013	-0.096
2561	1	-0.136	0.690	-205.940	-385.125	-357.845	0.003	0.028	-0.134
2562	1	0.067	1.389	81.025	21.888	-79.746	0.007	-0.024	-0.091
2563	1	-1.870	1.162	408.278	-965.400	153.353	0.302	-0.195	-0.045
2564	1	-1.137	0.249	5.145	57.001	-185.301	0.294	-0.034	-0.094
2565	1	-0.671	0.171	-604.995	-155.072	-307.854	0.160	0.005	-0.061
2566	1	0.252	1.298	-1.16E 3	51.212	-450.976	0.017	-0.094	-0.069
2567	1	10.001	4.637	-189.708	9.067	-63.257	-3.167	0.259	-1.063
2568	1	9.045	-5.273	248.832	-20.348	-43.287	-3.165	-0.170	1.285
2569	1	-0.512	-0.684	14.404	12.129	39.377	-0.151	0.016	0.379
2570	1	-1.223	-0.308	-18.455	-49.867	38.675	-0.154	0.073	-0.157
2571	1	-0.988	-0.000	-4.200	-27.096	21.140	0.126	-0.090	0.199
2572	1	0.373	-1.347	-16.569	-48.641	16.665	0.108	0.179	0.023
2573	1	2.797	-1.420	-154.339	-63.868	75.876	-0.192	-0.249	0.158
2574	1	0.618	-0.282	-19.567	-61.408	-5.670	-0.027	0.338	0.064
2575	1	2.573	-0.382	-153.723	-69.702	-95.166	-0.615	-0.623	-0.428
2576	1	0.610	0.131	-20.374	-76.921	-15.243	-0.068	0.290	-0.081
2577	1	-1.246	-1.623	-4.901	-64.404	-46.070	0.045	-0.398	-0.283
2578	1	0.292	1.017	-22.794	-96.128	-41.419	-0.031	0.065	-0.226
2579	1	-2.265	-0.319	-2.553	-34.403	-80.772	-0.064	-0.132	-0.344
2580	1	-2.273	-0.642	-34.029	-151.580	-89.955	0.007	-0.201	-0.165
2581	1	12.322	-4.712	-235.465	18.485	55.319	-0.426	0.108	-0.001
2582	1	11.229	3.396	140.123	-241.460	-74.536	-0.923	-0.440	-0.508
2583	1	11.209	14.800	-271.575	-450.813	-272.010	-1.563	-1.585	-0.971
2584	1	2.560	-0.480	-39.377	-5.789	14.509	-1.563	-0.017	-0.365
2585	1	2.477	-0.167	24.735	-6.653	20.548	-1.078	0.019	-0.385
2586	1	2.401	0.602	86.285	13.651	19.274	-0.619	-0.099	-0.385
2587	1	0.690	0.719	121.822	15.256	4.076	-0.267	-0.026	-0.148
2588	1	-0.239	0.746	131.321	16.276	-0.347	-0.051	-0.040	-0.066
2589	1	-1.741	0.557	110.406	15.294	-16.757	0.114	0.087	-0.200
2590	1	-1.773	-0.025	71.706	3.520	-22.178	0.385	0.079	-0.287
2591	1	-2.044	1.060	27.384	14.490	-19.547	0.677	-0.037	-0.424
2592	1	-6.260	5.935	-112.499	-56.978	57.779	0.567	-0.780	-0.022



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2593	1	-6.998	9.840	53.394	135.488	-54.384	0.124	-0.768	0.150
2594	1	1.265	1.455	-38.193	-40.301	22.472	0.124	-0.167	-0.456
2595	1	0.965	-0.052	24.851	-0.542	22.874	-0.360	0.029	-0.436
2596	1	0.659	-0.694	77.073	0.984	18.798	-0.819	-0.008	-0.437
2597	1	1.986	3.480	141.915	152.814	86.858	-1.171	-0.690	-0.673
2598	1	-1.005	2.943	126.457	149.342	-73.670	0.083	0.303	-0.413
2599	1	0.113	-0.840	97.127	2.046	-17.415	-0.081	0.035	-0.280
2600	1	-0.237	-0.082	72.193	7.088	-19.046	-0.353	0.071	-0.193
2601	1	-0.348	-0.132	39.494	2.475	-11.252	-0.644	0.063	-0.056
2602	1	3.484	5.282	88.933	197.712	93.369	-0.535	-1.268	-0.458
2603	1	-3.663	-1.656	5.7E 3	781.857	2.16E 3	-0.378	-0.165	-0.176
2604	1	-2.147	-0.305	3.04E 3	569.755	812.439	-0.322	-0.011	-0.093
2605	1	-1.485	-0.332	2E 3	174.089	75.783	-0.290	0.116	-0.004
2606	1	-1.541	0.884	1.87E 3	470.367	-752.190	-0.388	0.071	0.198
2607	1	0.010	0.229	-526.088	-485.953	-323.637	-0.010	-0.039	0.007
2608	1	-0.970	-0.752	821.367	996.544	601.746	-0.089	-0.088	-0.064
2609	1	-0.927	-0.501	791.028	726.120	170.278	-0.114	-0.008	-0.002
2610	1	-0.403	-0.258	6.610	290.155	137.444	-0.010	0.146	-0.017
2611	1	0.029	0.401	41.217	-277.738	-155.605	0.008	-0.037	0.008
2612	1	-0.106	-0.239	-149.025	462.171	-89.644	0.004	-0.057	-0.011
2613	1	-0.340	-0.562	-32.115	622.730	213.580	0.003	-0.004	-0.042
2614	1	-0.190	-0.755	13.770	294.755	157.014	0.005	0.109	-0.030
2619	1	-1.923	-1.455	1.4E 3	768.965	722.953	-0.362	0.014	-0.169
2620	1	-1.354	0.446	623.260	-117.025	43.046	-0.340	0.141	0.107
2621	1	-0.085	-0.259	-174.415	153.208	59.262	0.001	0.068	0.007
2622	1	-0.222	-0.681	-67.732	203.177	278.482	0.001	0.087	-0.070
2623	1	0.010	-0.109	55.175	-143.344	116.648	0.001	0.121	-0.029
2624	1	-0.169	-0.764	150.259	224.692	175.378	-0.013	0.034	-0.034
2639	1	-10.682	-7.859	203.635	29.975	98.790	-2.794	0.471	-1.021
2640	1	-15.258	10.916	-294.900	-284.908	192.427	-3.954	-1.520	1.987
2641	1	-0.846	0.351	-10.656	-73.134	-32.253	-0.342	0.089	0.678
2642	1	-0.268	3.061	7.597	-76.681	-31.951	-0.182	-1.138	0.288
2643	1	0.669	0.492	5.270	-19.621	-36.186	0.103	-0.420	0.596
2644	1	-0.644	3.276	11.219	-13.533	-37.308	-0.014	-0.629	0.370
2645	1	-4.376	2.436	153.571	67.593	-112.305	-0.829	-0.862	0.758
2646	1	-0.749	1.686	14.371	27.455	-26.357	-0.053	-0.187	0.208
2963	1	-4.788	-5.345	3E 3	4.23E 3	1.63E 3	-0.081	-0.192	-0.138
2964	1	-2.232	-0.651	2.23E 3	1.14E 3	4.239	-0.051	-0.013	-0.030
2965	1	-1.497	-0.295	2.2E 3	779.121	-514.667	-0.071	0.002	0.001
2966	1	-1.910	2.076	2.81E 3	1.33E 3	-1.5E 3	-0.078	0.020	0.027
2967	1	-0.608	-2.656	1.64E 3	2.43E 3	126.224	0.018	-0.129	-0.033
2968	1	-1.679	-1.718	1.75E 3	1.66E 3	-115.944	-0.034	-0.071	-0.043
2969	1	-1.321	-0.455	1.17E 3	1.33E 3	-780.544	-0.020	-0.025	-0.009
2970	1	-0.566	0.695	-24.038	715.983	-258.801	-0.003	0.031	-0.011
2971	1	-0.343	-1.700	1.23E 3	1.73E 3	-83.097	0.028	-0.111	-0.009



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2972	1	-0.843	-1.332	997.131	1.52E 3	-263.204	0.009	-0.072	-0.018
2973	1	-0.958	-0.772	477.449	1.1E 3	-312.696	-0.003	-0.032	-0.023
2974	1	-0.462	-0.205	118.083	362.976	-146.674	0.001	0.013	-0.013
2975	1	-0.128	-1.184	1E 3	1.36E 3	-82.407	0.040	-0.111	0.003
2976	1	-0.450	-0.978	821.150	1.2E 3	-114.029	0.017	-0.062	0.003
2977	1	-0.644	-0.823	395.031	789.300	-136.347	-0.002	-0.024	-0.015
2978	1	-0.373	-0.878	82.906	-32.826	-91.277	-0.002	-0.008	-0.016
2979	1	-2.832	-1.869	2.39E 3	770.256	1.21E 3	-0.174	-0.092	-0.098
2980	1	-2.290	1.201	1.26E 3	-382.919	-100.027	-0.116	0.038	0.037
2981	1	-0.089	-0.065	-273.620	-13.996	36.736	0.001	-0.046	-0.016
2982	1	-0.301	-0.535	-128.236	209.158	421.720	-0.004	-0.007	-0.045
2983	1	0.098	0.013	85.214	-357.696	156.116	0.002	-0.000	-0.015
2984	1	-0.033	-0.545	287.836	381.204	282.433	-0.029	-0.053	-0.046
2985	1	0.139	-0.171	98.020	-444.041	-81.067	-0.004	0.020	-0.004
2986	1	0.013	0.390	332.276	491.603	-227.809	-0.003	-0.002	-0.014
2987	1	0.057	-0.258	-262.046	-284.520	17.414	-0.005	0.033	-0.003
2988	1	-0.091	0.545	-181.318	408.858	-284.450	0.003	-0.014	-0.015
2989	1	-1.892	0.848	1.66E 3	84.981	-566.059	0.045	0.039	-0.019
2990	1	-1.592	-0.493	904.983	136.651	-95.482	0.025	-0.020	0.000
2991	1	0.071	-1.140	738.132	1.13E 3	-175.215	0.051	-0.149	0.035
2992	1	0.118	-0.787	1E 3	756.210	-39.484	0.003	-0.050	0.030
2993	1	-0.315	-0.676	672.119	604.558	303.529	0.008	-0.001	-0.009
2994	1	-0.384	-1.508	-104.442	-441.166	-87.448	0.001	-0.032	-0.023
2995	1	1.878	-1.770	1.09E 3	1.03E 3	-511.562	-0.003	-0.197	0.108
2996	1	0.742	-0.254	1.18E 3	60.184	71.216	0.068	-0.004	0.000
2997	1	0.298	-0.059	1.65E 3	327.817	465.536	0.069	0.001	-0.000
2998	1	-0.724	-1.862	2.19E 3	-510.261	638.891	0.052	-0.034	-0.002
2999	1	-19.814	-10.032	515.071	-25.373	172.054	-1.222	-0.052	-0.407
3000	1	-16.115	12.819	-183.792	-59.168	-55.562	-0.968	0.085	0.301
3001	1	2.319	-0.577	14.083	-38.536	-117.523	-0.013	-0.096	0.057
3002	1	0.232	3.719	57.162	50.344	-134.573	-0.050	0.128	-0.162
3003	1	1.971	-1.675	18.472	41.869	-96.544	0.051	-0.033	-0.029
3004	1	-1.154	5.173	44.083	77.830	-96.810	0.063	0.066	-0.077
3005	1	-6.426	1.406	333.313	132.489	-229.356	0.047	-0.016	-0.082
3006	1	-1.409	2.446	41.670	106.642	-49.077	-0.008	0.049	-0.024
3007	1	-5.308	-1.356	325.295	104.793	131.984	-0.344	-0.370	-0.294
3008	1	-1.420	1.309	42.727	132.613	-30.189	-0.030	-0.045	-0.078
3009	1	2.332	1.193	12.797	94.263	27.003	-0.008	-0.213	-0.190
3010	1	-0.865	-0.885	45.299	147.383	20.158	-0.055	-0.202	-0.182
3011	1	3.113	-0.554	12.910	59.773	68.558	-0.071	-0.011	-0.152
3012	1	2.054	1.218	54.641	197.652	81.796	-0.016	-0.404	-0.220
3013	1	-14.950	5.084	370.988	2.867	-123.981	0.199	0.074	-0.070
3014	1	-12.968	-4.066	-127.355	281.880	84.828	-0.167	-0.489	-0.302
3015	1	-12.126	-18.543	311.565	508.973	204.371	-1.045	-1.950	-0.938
3016	1	-2.574	1.831	127.456	-10.911	-55.020	-0.838	-0.073	-0.087



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Plate	L/C	SQX (N/mm <sup>2</sup> )	SQY (N/mm <sup>2</sup> )	MX (kNm/m)	MY (kNm/m)	MXY (kNm/m)	SX (N/mm <sup>2</sup> )	SY (N/mm <sup>2</sup> )	SXY (N/mm <sup>2</sup> )
3017	1	-3.098	0.213	76.465	4.380	-37.593	-0.602	0.056	-0.162
3018	1	-3.134	-0.708	8.538	-18.324	-33.231	-0.361	-0.039	-0.202
3019	1	-1.182	-0.831	-33.734	-20.362	-11.545	-0.173	-0.020	-0.083
3020	1	-0.126	-0.863	-53.784	-21.593	-2.751	-0.065	-0.024	-0.028
3021	1	1.560	-0.661	-45.766	-19.888	20.082	-0.002	0.041	-0.081
3022	1	1.511	0.104	-21.418	-6.055	28.651	0.113	0.048	-0.132
3023	1	1.528	-1.087	-0.442	-20.982	32.634	0.238	-0.041	-0.208
3024	1	6.694	-7.613	112.991	57.326	-52.468	0.147	-0.759	0.164
3025	1	7.452	-13.015	148.211	-202.597	69.407	-0.022	-1.480	0.508
3026	1	-1.713	-0.671	175.545	39.504	-52.725	-0.229	-0.134	-0.342
3027	1	-0.807	0.273	83.199	0.242	-39.908	-0.465	0.057	-0.267
3028	1	-0.388	0.864	21.166	-2.242	-33.218	-0.706	0.009	-0.227
3029	1	-1.958	-3.854	-53.129	-187.405	-113.051	-0.893	-0.370	-0.346
3030	1	0.519	-3.160	-40.789	-182.846	88.058	-0.311	0.112	-0.174
3031	1	-0.783	1.039	-28.347	-3.029	23.615	-0.374	0.019	-0.120
3032	1	-0.353	0.137	-18.845	-9.140	26.086	-0.489	0.044	-0.069
3033	1	0.013	0.988	7.410	-0.867	26.573	-0.615	0.007	0.007
3034	1	-4.768	-8.343	-45.369	-284.304	-104.609	-0.524	-0.969	-0.365
3035	1	4.233	3.503	-2.8E 3	662.060	1.35E 3	-0.051	0.150	0.097
3036	1	2.008	0.241	-1.98E 3	-1.34E 3	478.228	-0.073	0.006	0.032
3037	1	1.359	0.222	-2.13E 3	-575.589	641.954	-0.083	0.008	0.037
3038	1	1.845	-1.843	-2.83E 3	-1.49E 3	1.57E 3	-0.154	-0.090	0.104
3039	1	0.337	1.412	-2.16E 3	143.829	517.466	-0.063	0.079	0.033
3040	1	1.179	1.003	-1.42E 3	-516.281	977.510	-0.030	0.025	0.060
3041	1	1.023	0.268	-1.06E 3	-1.09E 3	997.347	-0.046	-0.019	0.061
3042	1	0.445	-0.637	39.100	-688.418	317.520	-0.002	-0.019	0.022
3043	1	0.222	0.798	-1.54E 3	-167.223	231.980	-0.046	0.034	0.014
3044	1	0.548	0.673	-1.11E 3	-467.211	624.687	-0.029	0.009	0.043
3045	1	0.674	0.414	-408.133	-616.878	569.915	-0.006	0.002	0.042
3046	1	0.347	0.039	-104.462	-239.321	210.084	0.001	0.017	0.016
3051	1	2.800	1.958	-2.35E 3	-546.618	-1.12E 3	-0.099	0.070	-0.034
3052	1	2.293	-1.186	-1.23E 3	474.579	54.200	-0.121	-0.008	0.041
3053	1	0.092	0.180	288.852	236.922	-20.466	0.000	0.068	0.016
3054	1	0.279	0.525	152.920	-84.868	-402.617	0.003	-0.006	-0.009
3055	1	-0.063	0.034	-101.049	576.103	-128.934	-0.001	0.065	-0.001
3056	1	0.263	0.603	-324.881	-220.473	-248.479	0.003	-0.003	0.008
3071	1	20.853	14.957	-536.538	-34.753	-227.562	-0.890	0.144	-0.332
3072	1	25.742	-21.557	255.130	531.679	-176.251	-1.554	-0.949	0.858
3073	1	-0.221	1.031	-19.955	132.097	105.650	-0.161	-0.033	0.316
3074	1	2.074	-7.987	-40.428	144.531	123.336	-0.068	-0.772	0.209
3075	1	-1.496	0.862	-20.276	28.707	118.890	0.030	-0.312	0.309
3076	1	1.576	-8.173	-36.379	16.082	127.661	-0.035	-0.493	0.217
3077	1	8.790	-3.024	-334.967	-140.126	284.513	-0.458	-0.542	0.420
3078	1	1.611	-4.642	-34.359	-58.467	96.454	-0.026	-0.263	0.106
3395	1	4.517	5.254	-2.15E 3	-4.21E 3	-1.18E 3	-0.011	-0.190	-0.090



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Plate	L/C	SQX (N/mm <sup>2</sup> )	SQY (N/mm <sup>2</sup> )	MX (kNm/m)	MY (kNm/m)	MXY (kNm/m)	SX (N/mm <sup>2</sup> )	SY (N/mm <sup>2</sup> )	SXY (N/mm <sup>2</sup> )
3396	1	2.053	0.613	-1.72E 3	-1.26E 3	47.952	-0.008	-0.033	-0.016
3397	1	1.364	0.283	-1.76E 3	-916.437	432.397	-0.036	-0.023	0.002
3398	1	1.706	-1.814	-2.27E 3	-1.26E 3	1.2E 3	-0.042	-0.010	0.013
3399	1	0.571	2.619	-1.66E 3	-2.39E 3	-113.211	0.021	-0.134	-0.019
3400	1	1.581	1.639	-1.53E 3	-1.61E 3	166.871	-0.017	-0.073	-0.023
3401	1	1.220	0.438	-971.913	-1.31E 3	690.926	-0.007	-0.038	-0.001
3402	1	0.511	-0.572	23.260	-759.911	230.282	-0.002	-0.001	-0.005
3403	1	0.353	1.679	-1.21E 3	-1.71E 3	40.914	0.029	-0.113	0.002
3404	1	0.819	1.289	-970.815	-1.47E 3	215.286	0.011	-0.076	-0.005
3405	1	0.899	0.749	-455.758	-1.07E 3	287.440	-0.001	-0.041	-0.007
3406	1	0.425	0.240	-106.690	-423.907	141.140	0.000	-0.007	-0.005
3407	1	0.171	1.179	-1E 3	-1.34E 3	36.966	0.040	-0.116	0.012
3408	1	0.461	0.966	-823.798	-1.16E 3	74.481	0.017	-0.070	0.018
3409	1	0.620	0.807	-406.945	-783.746	99.563	-0.003	-0.032	0.002
3410	1	0.353	0.859	-89.550	-47.619	75.649	-0.002	-0.014	-0.008
3411	1	2.448	1.692	-1.92E 3	-963.745	-1.05E 3	-0.116	-0.071	-0.068
3412	1	1.825	-0.726	-948.022	168.039	24.855	-0.072	0.018	0.023
3413	1	0.083	0.150	216.272	-202.576	-85.574	0.000	-0.038	-0.013
3414	1	0.273	0.727	88.960	-313.555	-383.631	-0.003	-0.016	-0.032
3415	1	-0.079	0.057	-73.774	173.972	-168.249	0.001	-0.004	-0.011
3416	1	0.023	0.732	-237.379	-437.313	-279.576	-0.024	-0.050	-0.035
3417	1	-0.124	0.201	-76.843	331.361	24.556	-0.004	0.009	-0.002
3418	1	-0.026	-0.051	-265.757	-484.927	130.387	-0.002	-0.003	-0.010
3419	1	-0.046	0.269	262.517	298.347	-100.005	-0.004	0.018	0.001
3420	1	0.083	-0.208	190.101	-419.893	215.498	0.001	-0.011	-0.013
3421	1	1.884	-0.883	-1.61E 3	44.618	467.049	0.050	0.022	-0.014
3422	1	1.749	0.856	-938.370	-160.927	57.128	0.037	-0.015	0.002
3423	1	0.002	1.144	-737.148	-1.11E 3	144.034	0.051	-0.158	0.045
3424	1	-0.071	0.799	-978.705	-721.025	13.084	-0.007	-0.065	0.051
3425	1	0.330	0.680	-669.770	-596.548	-325.184	0.006	-0.005	0.005
3426	1	0.368	1.455	83.297	315.508	47.868	-0.000	-0.025	-0.015
3427	1	-1.793	1.782	-1.01E 3	-1.01E 3	463.670	-0.053	-0.229	0.140
3428	1	-0.651	0.264	-1.11E 3	-51.196	-83.619	0.043	-0.005	0.009
3429	1	-0.198	0.078	-1.56E 3	-297.930	-444.157	0.057	0.002	0.004
3430	1	0.808	1.833	-2.09E 3	351.791	-657.453	0.055	-0.021	0.006
3431	1	14.941	7.317	-347.873	7.909	-127.769	-0.805	-0.096	-0.283
3432	1	13.199	-9.104	242.136	39.653	-27.939	-0.599	0.024	0.173
3433	1	-1.210	-0.483	2.111	26.647	65.173	-0.005	-0.109	0.014
3434	1	-0.702	-1.768	-36.333	-44.705	71.423	-0.034	0.037	-0.124
3435	1	-1.600	0.338	-11.812	-33.961	46.127	0.033	-0.046	-0.043
3436	1	0.849	-3.052	-32.460	-64.782	43.172	0.045	-0.026	-0.067
3437	1	5.041	-2.176	-269.193	-102.917	148.142	0.045	-0.020	-0.082
3438	1	1.128	-1.002	-33.846	-91.575	5.448	-0.007	-0.053	-0.028
3439	1	4.485	-0.033	-266.108	-103.068	-146.394	-0.278	-0.308	-0.246
3440	1	1.117	-0.178	-34.992	-117.460	-10.067	-0.025	-0.138	-0.070



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Plate	L/C	SQX (N/mm <sup>2</sup> )	SQY (N/mm <sup>2</sup> )	MX (kNm/m)	MY (kNm/m)	MXY (kNm/m)	SX (N/mm <sup>2</sup> )	SY (N/mm <sup>2</sup> )	SXY (N/mm <sup>2</sup> )
3441	1	-2.017	-2.186	-10.313	-93.268	-59.152	-0.019	-0.174	-0.153
3442	1	0.626	1.511	-38.944	-141.653	-53.114	-0.057	-0.272	-0.162
3443	1	-3.392	-0.374	-10.481	-54.065	-105.593	-0.071	0.000	-0.096
3444	1	-2.617	-0.764	-53.403	-210.314	-119.747	-0.024	-0.446	-0.220
3445	1	17.224	-6.558	-373.285	10.977	101.324	0.323	0.047	-0.069
3446	1	15.063	4.956	150.757	-319.878	-111.341	0.011	-0.493	-0.247
3447	1	12.908	19.717	-362.912	-517.670	-250.099	-0.715	-1.747	-0.787
3448	1	2.726	-1.582	-133.620	8.984	36.527	-0.537	-0.074	0.004
3449	1	3.061	-0.194	-62.412	-4.601	23.010	-0.389	0.060	-0.083
3450	1	3.050	0.770	20.308	19.755	18.437	-0.237	-0.019	-0.128
3451	1	0.874	0.948	74.045	21.893	-4.510	-0.118	-0.015	-0.056
3452	1	-0.347	0.970	96.996	22.808	-12.720	-0.049	-0.015	-0.018
3453	1	-2.355	0.762	85.398	21.215	-36.496	-0.014	0.026	-0.048
3454	1	-2.364	-0.086	50.499	6.020	-44.843	0.054	0.039	-0.086
3455	1	-2.483	1.097	15.661	20.494	-48.360	0.129	-0.034	-0.149
3456	1	-8.122	8.751	-125.598	-66.951	51.916	0.050	-0.738	0.195
3457	1	-7.192	13.225	-132.248	205.835	-97.068	-0.103	-1.558	0.515
3458	1	2.486	0.912	-170.319	-38.678	32.922	-0.281	-0.094	-0.276
3459	1	1.652	-0.251	-67.842	0.196	24.320	-0.429	0.058	-0.189
3460	1	1.164	-0.984	5.660	2.088	17.464	-0.581	0.012	-0.144
3461	1	2.840	4.282	90.664	205.491	103.711	-0.700	-0.237	-0.216
3462	1	-0.455	3.840	93.009	202.696	-115.989	-0.358	0.062	-0.100
3463	1	1.053	-1.119	67.818	3.246	-39.403	-0.393	0.013	-0.070
3464	1	0.564	-0.138	48.450	9.345	-41.681	-0.460	0.036	-0.031
3465	1	0.183	-0.872	11.553	1.889	-40.235	-0.536	-0.003	0.032
3466	1	5.321	8.795	63.564	285.404	100.920	-0.457	-0.864	-0.313
3467	1	-3.959	-3.407	1.96E 3	-686.993	-1.88E 3	0.016	0.156	0.140
3468	1	-1.824	-0.188	1.47E 3	1.46E 3	-594.154	-0.029	-0.015	0.041
3469	1	-1.219	-0.181	1.71E 3	700.075	-612.075	-0.045	-0.017	0.032
3470	1	-1.623	1.599	2.31E 3	1.54E 3	-1.36E 3	-0.103	-0.097	0.074
3471	1	-0.291	-1.373	2.18E 3	-188.760	-603.514	-0.060	0.076	0.041
3472	1	-1.069	-0.912	1.21E 3	460.935	-1.1E 3	-0.012	0.026	0.072
3473	1	-0.904	-0.233	879.331	1.08E 3	-980.036	-0.028	-0.026	0.058
3474	1	-0.379	0.555	-24.991	795.869	-333.043	-0.001	-0.040	0.022
3475	1	-0.221	-0.776	1.51E 3	141.194	-265.539	-0.045	0.035	0.020
3476	1	-0.511	-0.624	1.09E 3	410.616	-651.887	-0.028	0.011	0.047
3477	1	-0.600	-0.372	394.310	593.633	-608.646	-0.004	-0.003	0.047
3478	1	-0.303	-0.020	97.003	321.864	-231.614	0.000	-0.002	0.018
3483	1	-2.391	-1.742	1.86E 3	594.328	862.740	-0.058	0.057	-0.016
3484	1	-1.815	0.884	917.108	-213.169	-12.534	-0.080	-0.022	0.028
3485	1	-0.070	-0.259	-238.155	-65.771	8.372	-0.000	0.050	0.014
3486	1	-0.237	-0.512	-116.866	199.901	311.162	0.003	-0.015	-0.002
3487	1	0.045	-0.121	78.932	-352.648	96.586	-0.001	0.043	0.002
3488	1	-0.205	-0.561	240.016	266.531	185.125	0.004	-0.008	0.010
3503	1	-15.638	-11.141	362.479	31.241	154.721	-0.549	0.076	-0.197



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3504	1	-19.863	15.429	-291.629	-368.097	177.638	-1.001	-0.669	0.558
3505	1	-0.259	-0.251	1.205	-95.431	-67.820	-0.104	-0.043	0.215
3506	1	-0.898	5.002	24.125	-94.545	-74.873	-0.041	-0.550	0.146
3507	1	1.109	-0.151	12.176	-19.513	-73.081	0.019	-0.235	0.211
3508	1	-1.061	5.366	23.524	-8.517	-77.010	-0.027	-0.358	0.150
3509	1	-6.524	2.779	243.403	103.838	-191.963	-0.317	-0.391	0.290
3510	1	-1.167	2.899	24.500	45.143	-55.721	-0.018	-0.203	0.071
3540	1	1.295	-5.183	-114.747	5.279	-139.590	-0.686	-2.133	1.323
3542	1	-3.383	1.385	-312.599	-256.071	-27.700	0.565	-1.308	0.138
3544	1	-1.315	-0.588	-334.533	-491.356	-28.034	0.251	-1.609	0.029
3546	1	-1.203	1.737	-329.463	-394.247	7.660	0.231	-1.419	-0.284
3548	1	-3.188	-1.469	-307.532	-26.041	29.211	0.421	-0.957	-0.251
3550	1	0.410	5.768	-78.990	287.791	32.384	-0.398	-1.193	-0.862
3552	1	3.945	-7.620	-13.790	507.675	-163.179	-0.136	-0.196	0.291
3554	1	-2.989	-1.407	-307.765	-270.921	-38.239	0.254	-0.074	0.142
3556	1	-0.825	0.003	-313.790	-447.941	0.400	0.154	-0.139	0.006
3558	1	-2.981	1.412	-306.942	-270.683	38.995	0.255	-0.084	-0.131
3559	1	-3.039	4.654	-34.952	484.549	29.313	0.193	-0.147	-0.318
3560	1	3.943	7.607	-13.311	507.214	163.488	-0.134	-0.215	-0.287
3561	1	-1.976	-2.835	-37.401	399.751	-8.897	0.011	-0.623	0.120
3562	1	0.413	-5.746	-77.735	287.297	-31.316	-0.394	-1.200	0.859
3563	1	-1.029	-0.868	-39.235	34.090	-25.322	0.033	-1.104	0.168
3564	1	-3.160	1.461	-304.727	-26.061	-28.406	0.422	-0.967	0.248
3566	1	-1.185	-1.725	-326.028	-392.641	-6.803	0.232	-1.428	0.277
3568	1	-1.296	0.587	-330.729	-488.797	28.375	0.252	-1.615	-0.037
3570	1	-3.343	-1.374	-308.508	-253.940	27.805	0.567	-1.307	-0.138
3572	1	1.296	5.144	-112.671	5.754	138.446	-0.685	-2.134	-1.325
3573	1	5.867	7.255	-7.71E 3	-10.5E 3	-6.52E 3	-0.605	-0.824	-0.480
3574	1	1.592	0.553	-3.06E 3	187.531	-262.860	-0.316	-0.039	-0.028
3575	1	0.590	0.339	-2.5E 3	-631.399	662.366	-0.286	0.012	0.049
3576	1	1.123	-2.163	-2.78E 3	1.13E 3	714.021	-0.212	0.185	0.009
3577	1	1.076	4.093	-926.119	-5.74E 3	-1.5E 3	-0.036	-0.538	-0.131
3578	1	2.383	2.577	-2.82E 3	-2.86E 3	-1.81E 3	-0.198	-0.274	-0.199
3579	1	1.616	0.539	-1.3E 3	-751.006	-60.794	-0.062	-0.069	-0.085
3580	1	0.785	-1.005	140.188	965.385	-267.135	-0.026	0.217	-0.080
3581	1	0.559	2.699	-912.785	-3.39E 3	-549.472	0.084	-0.401	-0.044
3582	1	1.351	2.071	-786.098	-2.52E 3	-938.792	0.018	-0.250	-0.134
3583	1	1.508	1.073	-579.188	-1.07E 3	-783.901	-0.020	-0.095	-0.162
3584	1	0.694	0.270	-120.088	531.503	-269.738	0.004	0.087	-0.087
3585	1	0.247	1.882	-704.382	-2.12E 3	-393.232	0.174	-0.333	-0.005
3586	1	0.762	1.539	-702.652	-1.74E 3	-735.954	0.094	-0.188	-0.051
3587	1	1.019	1.194	-333.362	-971.872	-706.476	0.007	-0.072	-0.127
3588	1	0.572	1.321	-95.005	276.506	-272.344	-0.010	-0.061	-0.100
3589	1	2.664	1.262	-2.1E 3	-503.874	-946.677	-0.235	-0.210	-0.127
3590	1	1.835	0.075	-923.906	-61.257	-223.146	-0.120	0.062	-0.008



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Plate	L/C	SQX (N/mm <sup>2</sup> )	SQY (N/mm <sup>2</sup> )	MX (kNm/m)	MY (kNm/m)	MXY (kNm/m)	SX (N/mm <sup>2</sup> )	SY (N/mm <sup>2</sup> )	SXY (N/mm <sup>2</sup> )
3591	1	-0.045	-0.233	319.046	259.872	-146.972	0.014	-0.133	-0.046
3592	1	0.178	1.475	156.026	-433.935	-490.875	-0.013	-0.015	-0.089
3593	1	-0.194	-0.160	-115.778	709.839	-266.318	0.006	-0.032	-0.029
3594	1	-0.006	1.306	-348.930	-521.740	-412.823	-0.057	-0.116	-0.106
3595	1	-0.244	0.170	-102.785	938.833	-9.965	-0.004	0.030	-0.032
3596	1	-0.068	-0.067	-352.067	-554.277	96.784	0.064	0.127	-0.112
3597	1	-0.132	0.385	476.543	991.962	-283.864	-0.017	0.138	-0.052
3598	1	0.079	-0.378	352.187	-590.578	276.085	0.014	0.019	-0.093
3599	1	3.387	-1.572	-2.65E 3	705.094	564.372	0.235	0.218	-0.133
3600	1	3.154	1.485	-1.57E 3	-315.788	133.552	0.110	-0.061	-0.011
3601	1	-0.059	1.749	-669.228	-1.35E 3	-172.668	0.273	-0.390	0.083
3602	1	-0.044	1.256	-985.595	-906.726	-595.962	0.118	-0.136	0.054
3603	1	0.594	1.046	-851.218	-871.345	-1.04E 3	0.068	0.020	-0.064
3604	1	0.559	2.296	155.911	287.027	-233.507	0.012	-0.214	-0.127
3605	1	-2.435	2.459	-428.345	-891.479	70.533	0.203	-0.510	0.284
3606	1	-0.703	0.424	-1.14E 3	-88.640	-362.585	0.382	-0.003	0.004
3607	1	0.026	0.120	-2.17E 3	-360.146	-828.062	0.382	-0.013	0.016
3608	1	1.680	3.068	-3.26E 3	27.509	-1.29E 3	0.289	-0.195	-0.005
3625	1	23.856	28.746	-700.895	-378.518	-404.267	-1.284	-4.756	-2.112
3626	1	6.302	2.613	-99.821	26.089	8.126	-0.866	-0.137	-0.104
3627	1	5.313	0.098	82.702	6.646	28.337	-0.360	0.155	-0.332
3628	1	5.293	2.186	239.042	49.704	22.008	0.151	-0.058	-0.463
3629	1	-0.182	2.322	310.923	52.434	-28.632	0.614	-0.094	-0.216
3630	1	-2.860	2.439	318.194	56.640	-44.568	0.751	-0.115	0.041
3631	1	-7.127	1.700	237.110	52.526	-100.556	0.623	0.009	0.127
3635	1	-14.530	24.999	260.452	540.199	-459.088	1.120	-3.689	1.193
3636	1	2.484	1.486	-23.673	5.649	-17.019	0.703	-0.279	-0.815
3637	1	2.934	-0.116	91.876	19.643	20.918	0.196	0.161	-0.587
3638	1	2.415	-2.287	214.750	10.921	21.630	-0.314	0.036	-0.456
3639	1	7.351	11.845	403.223	508.377	258.383	-0.778	-0.820	-0.703
3640	1	-1.544	8.840	270.010	487.567	-271.091	-0.206	-0.403	0.120
3641	1	2.184	-2.899	187.516	7.981	-103.329	-0.077	0.040	0.034
3645	1	-6.590	-7.591	3.96E 3	7.13E 3	3.26E 3	-0.137	-0.259	-0.228
3646	1	-3.088	-1.041	2.78E 3	1.68E 3	341.399	-0.064	-0.008	-0.059
3647	1	-2.055	-0.505	2.5E 3	1.38E 3	-410.555	-0.065	0.016	-0.018
3648	1	-2.434	2.393	3E 3	1.61E 3	-1.47E 3	-0.040	0.091	-0.010
3649	1	-0.944	-3.901	1.77E 3	4.11E 3	582.287	0.049	-0.166	-0.063
3650	1	-2.394	-2.559	2.18E 3	2.71E 3	358.840	-0.033	-0.093	-0.089
3651	1	-1.828	-0.809	1.36E 3	1.93E 3	-650.042	-0.010	-0.011	-0.047
3652	1	-0.760	0.540	-20.362	1.08E 3	-203.097	-0.003	0.070	-0.028
3653	1	-0.525	-2.588	1.34E 3	2.88E 3	159.710	0.053	-0.140	-0.027
3654	1	-1.179	-2.067	1.11E 3	2.43E 3	-16.974	0.023	-0.081	-0.048
3655	1	-1.289	-1.309	581.243	1.71E 3	-142.994	-0.002	-0.029	-0.057
3656	1	-0.602	-0.663	137.358	711.662	-93.169	0.000	0.023	-0.029
3657	1	-0.195	-1.931	997.456	2.25E 3	64.902	0.063	-0.134	-0.007





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### Cont...

Plate	L/C	SQX (N/mm <sup>2</sup> )	SQY (N/mm <sup>2</sup> )	MX (kNm/m)	MY (kNm/m)	MXY (kNm/m)	SX (N/mm <sup>2</sup> )	SY (N/mm <sup>2</sup> )	SXY (N/mm <sup>2</sup> )
3658	1	-0.556	-1.641	916.321	1.88E 3	16.560	0.029	-0.063	-0.013
3659	1	-0.774	-1.398	476.114	1.26E 3	9.513	-0.000	-0.021	-0.042
3660	1	-0.453	-1.516	110.946	237.161	-24.011	-0.004	-0.026	-0.034
3661	1	-3.372	-2.337	2.52E 3	1.58E 3	1.43E 3	-0.176	-0.158	-0.110
3662	1	-2.495	0.959	1.2E 3	-71.714	-23.541	-0.087	0.057	0.022
3663	1	-0.131	-0.214	-275.245	528.753	126.112	0.001	-0.092	-0.031
3664	1	-0.393	-1.068	-91.466	574.071	513.900	-0.006	-0.008	-0.057
3665	1	0.106	-0.107	80.815	12.568	240.767	0.002	-0.026	-0.021
3666	1	0.074	-1.080	254.160	715.792	373.509	-0.041	-0.074	-0.067
3667	1	0.179	-0.336	76.816	-286.353	41.361	-0.004	0.008	-0.013
3668	1	0.150	-0.436	286.800	725.158	-56.643	0.016	0.042	-0.044
3669	1	0.055	-0.479	-385.666	-430.545	268.537	-0.009	0.050	-0.019
3670	1	-0.104	-0.198	-291.115	649.500	-215.674	0.006	-0.000	-0.038
3671	1	-2.682	1.226	2.3E 3	-257.684	-536.581	0.095	0.080	-0.051
3672	1	-2.812	-1.808	1.43E 3	285.696	-23.344	0.043	-0.030	-0.007
3673	1	0.145	-2.039	710.725	1.9E 3	-186.447	0.082	-0.180	0.035
3674	1	0.413	-1.487	1.17E 3	1.11E 3	11.854	0.031	-0.040	0.019
3675	1	-0.246	-1.202	858.953	893.468	545.745	0.022	0.011	-0.023
3676	1	-0.416	-2.278	-112.857	-245.011	12.150	0.002	-0.079	-0.046
3677	1	3.688	-3.396	737.749	1.75E 3	-626.362	0.087	-0.214	0.098
3678	1	1.491	-0.503	1.17E 3	30.674	170.373	0.151	-0.002	-0.008
3679	1	0.568	-0.232	1.98E 3	396.398	628.825	0.145	0.001	0.005
3680	1	-1.067	-2.657	2.85E 3	-272.546	990.481	0.114	-0.075	-0.001
3697	1	-32.029	-43.402	829.392	978.700	658.813	-1.408	-2.907	-1.388
3698	1	-6.981	0.116	115.932	-9.949	-29.280	-1.095	-0.043	-0.269
3699	1	-6.531	0.105	-75.668	7.437	-43.648	-0.602	0.078	-0.380
3700	1	-6.455	-2.122	-252.890	-43.014	-43.191	-0.107	-0.080	-0.442
3701	1	-0.850	-2.250	-336.339	-44.971	-2.288	0.321	-0.079	-0.190
3702	1	1.761	-2.413	-347.693	-50.713	5.534	0.473	-0.093	0.022
3703	1	5.749	-1.486	-254.603	-46.979	53.504	0.410	0.027	0.049
3707	1	21.224	-34.625	-268.205	-523.899	444.843	0.889	-1.667	0.500
3708	1	-3.285	-3.464	76.514	52.954	-20.587	0.575	-0.215	-0.620
3709	1	-3.196	0.172	-81.748	-8.439	-43.981	0.083	0.087	-0.508
3710	1	-2.733	1.991	-235.530	-7.952	-39.650	-0.412	0.016	-0.446
3711	1	-7.799	-12.644	-464.223	-482.217	-283.637	-0.840	-0.808	-0.699
3712	1	2.976	-8.593	-286.280	-454.218	205.560	-0.065	-0.205	-0.015
3713	1	-0.473	2.807	-204.150	-4.744	54.120	-0.002	0.035	-0.042
3717	1	5.551	4.119	-3.6E 3	1.98E 3	2.58E 3	-0.088	0.175	0.085
3718	1	2.664	0.179	-2.32E 3	-2.04E 3	810.452	-0.090	0.017	0.030
3719	1	1.784	0.205	-2.41E 3	-969.933	846.852	-0.081	0.024	0.037
3720	1	2.274	-2.161	-3.09E 3	-2.19E 3	1.85E 3	-0.152	-0.085	0.112
3721	1	0.421	1.538	-2.78E 3	689.466	909.066	-0.058	0.100	0.030
3722	1	1.447	1.134	-1.61E 3	-578.246	1.51E 3	-0.028	0.030	0.055
3723	1	1.246	0.321	-1.21E 3	-1.52E 3	1.3E 3	-0.049	-0.008	0.062
3724	1	0.516	-0.676	17.347	-1.17E 3	445.087	-0.003	-0.012	0.026



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### Cont...

Plate	L/C	SQX (N/mm <sup>2</sup> )	SQY (N/mm <sup>2</sup> )	MX (kNm/m)	MY (kNm/m)	MXY (kNm/m)	SX (N/mm <sup>2</sup> )	SY (N/mm <sup>2</sup> )	SXY (N/mm <sup>2</sup> )
3725	1	0.278	0.849	-1.95E 3	43.985	407.644	-0.043	0.044	0.010
3726	1	0.621	0.749	-1.37E 3	-468.669	953.643	-0.027	0.015	0.043
3727	1	0.755	0.503	-481.543	-828.474	839.366	-0.005	0.009	0.044
3728	1	0.388	0.096	-121.887	-513.986	305.856	0.001	0.027	0.018
3729	1	0.116	0.463	-1.59E 3	-225.803	195.280	-0.045	0.014	0.001
3730	1	0.374	0.441	-1.14E 3	-440.195	378.130	-0.028	0.002	0.017
3731	1	0.545	0.499	-474.635	-443.002	438.831	-0.002	0.008	0.029
3732	1	0.318	0.628	-78.994	118.416	235.680	0.004	0.061	0.022
3733	1	3.253	2.410	-2.4E 3	-816.233	-1.07E 3	-0.043	0.102	-0.005
3734	1	2.475	-1.202	-1.13E 3	179.956	-26.894	-0.086	-0.016	0.026
3735	1	0.101	0.410	320.461	52.372	6.842	-0.001	0.091	0.017
3736	1	0.312	0.703	154.185	-336.399	-385.656	0.005	-0.005	0.003
3737	1	-0.043	0.215	-101.433	414.672	-110.056	-0.003	0.079	0.002
3738	1	0.325	0.803	-293.783	-375.357	-209.852	0.006	0.006	0.018
3739	1	-0.068	0.236	-115.918	432.286	171.836	-0.003	0.057	0.021
3740	1	0.301	-0.932	-350.464	-500.095	356.575	-0.056	-0.100	0.068
3741	1	-0.021	0.167	175.042	67.913	177.693	0.007	-0.010	0.039
3742	1	0.096	-0.958	89.912	-361.371	362.189	-0.007	-0.033	0.050
3743	1	1.458	-0.655	-1.3E 3	-487.728	678.416	-0.097	-0.065	0.064
3744	1	0.908	-0.232	-555.817	-60.288	144.498	-0.024	0.022	0.025
3745	1	0.006	0.309	-1.16E 3	-264.351	87.081	-0.066	0.003	-0.008
3746	1	0.077	0.221	-1.07E 3	-317.244	22.865	-0.053	-0.006	-0.005
3747	1	0.353	0.349	-626.454	-394.153	-86.692	-0.023	-0.013	0.001
3748	1	0.384	1.168	105.089	660.455	232.238	-0.002	0.100	0.031
3749	1	-0.443	0.375	-1.3E 3	-248.119	124.751	-0.096	0.002	-0.007
3750	1	-0.223	0.059	-1.34E 3	-40.695	-55.764	-0.108	-0.005	-0.010
3751	1	-0.174	-0.083	-1.62E 3	-309.970	-376.283	-0.127	0.006	-0.023
3752	1	0.495	1.487	-1.93E 3	847.262	-381.793	-0.118	0.073	-0.012
3769	1	2.643	4.000	-130.982	-135.248	-67.456	0.012	0.013	0.012
3770	1	0.858	-0.685	-67.635	-2.522	-2.659	-0.001	-0.000	0.008
3771	1	0.710	-0.016	-33.716	-3.889	-5.853	-0.011	-0.000	0.009
3772	1	0.449	-0.004	-5.969	-1.246	-5.626	-0.022	-0.000	0.010
3773	1	0.182	0.012	12.673	-1.073	-6.038	-0.033	0.000	0.010
3774	1	-0.088	0.013	21.928	-1.021	-6.449	-0.044	0.000	0.010
3775	1	-0.360	0.015	21.677	-1.126	-6.758	-0.055	-0.000	0.010
3779	1	0.312	0.749	-106.487	-11.797	1.388	-0.084	0.003	0.007
3780	1	1.558	0.527	-75.847	-12.071	-5.127	-0.072	0.001	0.011
3781	1	1.167	-0.054	-34.636	-3.228	-6.553	-0.061	-0.001	0.010
3782	1	0.889	0.004	-6.112	-1.433	-7.684	-0.050	-0.000	0.010
3783	1	0.618	-0.013	12.659	-1.057	-7.327	-0.039	0.000	0.010
3784	1	0.349	-0.012	21.959	-1.000	-6.915	-0.029	0.000	0.010
3785	1	0.082	-0.003	21.909	-1.150	-6.418	-0.018	-0.000	0.010
3789	1	-5.855	-7.239	7.7E 3	10.5E 3	6.51E 3	-0.601	-0.819	-0.476
3790	1	-1.589	-0.553	3.06E 3	-186.597	264.842	-0.314	-0.039	-0.027
3791	1	-0.589	-0.339	2.49E 3	630.013	-659.283	-0.285	0.012	0.049



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Plate	L/C	SQX (N/mm <sup>2</sup> )	SQY (N/mm <sup>2</sup> )	MX (kNm/m)	MY (kNm/m)	MXY (kNm/m)	SX (N/mm <sup>2</sup> )	SY (N/mm <sup>2</sup> )	SXY (N/mm <sup>2</sup> )
3792	1	-1.119	2.155	2.77E 3	-1.13E 3	-711.058	-0.212	0.184	0.009
3793	1	-1.074	-4.085	916.975	5.74E 3	1.5E 3	-0.036	-0.536	-0.131
3794	1	-2.378	-2.572	2.82E 3	2.86E 3	1.81E 3	-0.198	-0.272	-0.197
3795	1	-1.612	-0.539	1.3E 3	749.902	62.783	-0.062	-0.069	-0.084
3796	1	-0.783	1.000	-139.411	-961.661	266.705	-0.026	0.216	-0.079
3797	1	-0.557	-2.694	905.838	3.38E 3	547.858	0.083	-0.400	-0.044
3798	1	-1.347	-2.068	780.871	2.52E 3	937.530	0.017	-0.249	-0.133
3799	1	-1.504	-1.072	576.915	1.07E 3	783.096	-0.020	-0.095	-0.161
3800	1	-0.692	-0.271	119.665	-528.556	269.421	0.004	0.087	-0.087
3801	1	-0.246	-1.879	697.862	2.12E 3	391.360	0.172	-0.332	-0.005
3802	1	-0.759	-1.537	697.601	1.74E 3	733.282	0.093	-0.187	-0.050
3803	1	-1.015	-1.192	331.266	971.007	704.380	0.006	-0.071	-0.126
3804	1	-0.571	-1.318	94.532	-274.167	271.759	-0.010	-0.060	-0.100
3805	1	-2.654	-1.258	2.09E 3	502.842	943.276	-0.235	-0.209	-0.127
3806	1	-1.827	-0.076	919.934	60.942	222.324	-0.121	0.062	-0.008
3807	1	0.045	0.232	-317.843	-258.376	146.657	0.014	-0.131	-0.045
3808	1	-0.177	-1.470	-155.377	432.183	489.162	-0.013	-0.016	-0.089
3809	1	0.193	0.159	115.341	-706.961	265.483	0.006	-0.032	-0.029
3810	1	0.006	-1.302	347.596	519.701	411.486	-0.056	-0.115	-0.105
3811	1	0.243	-0.170	102.368	-935.445	10.088	-0.004	0.030	-0.032
3812	1	0.067	0.066	350.706	552.073	-96.225	0.063	0.126	-0.111
3813	1	0.132	-0.384	-475.014	-988.778	283.116	-0.017	0.137	-0.051
3814	1	-0.079	0.376	-351.102	588.392	-274.935	0.014	0.019	-0.092
3815	1	-3.375	1.567	2.64E 3	-703.220	-561.912	0.232	0.217	-0.132
3816	1	-3.142	-1.480	1.56E 3	314.731	-133.024	0.108	-0.061	-0.011
3817	1	0.060	-1.747	663.231	1.35E 3	170.765	0.271	-0.390	0.083
3818	1	0.046	-1.255	981.120	906.380	592.227	0.116	-0.135	0.053
3819	1	-0.591	-1.044	847.870	869.378	1.04E 3	0.067	0.019	-0.065
3820	1	-0.557	-2.290	-155.337	-284.949	232.879	0.012	-0.212	-0.126
3821	1	2.434	-2.457	427.185	892.923	-74.150	0.201	-0.509	0.283
3822	1	0.705	-0.424	1.14E 3	88.654	360.485	0.380	-0.003	0.003
3823	1	-0.024	-0.120	2.16E 3	359.042	824.920	0.378	-0.012	0.015
3824	1	-1.673	-3.057	3.25E 3	-26.671	1.28E 3	0.286	-0.194	-0.006
3841	1	-23.757	-28.673	697.444	378.854	402.312	-1.309	-4.766	-2.116
3842	1	-6.263	-2.579	100.038	-26.128	-8.516	-0.890	-0.135	-0.109
3843	1	-5.288	-0.096	-81.244	-6.609	-28.306	-0.377	0.155	-0.338
3844	1	-5.269	-2.174	-236.760	-49.487	-21.932	0.140	-0.060	-0.468
3845	1	0.178	-2.309	-308.397	-52.185	28.545	0.608	-0.094	-0.217
3846	1	2.840	-2.425	-315.813	-56.350	44.444	0.747	-0.115	0.041
3847	1	7.090	-1.694	-235.488	-52.285	100.212	0.620	0.010	0.125
3851	1	14.466	-24.913	-256.669	-538.505	456.293	1.121	-3.677	1.185
3852	1	-2.482	-1.469	25.082	-5.421	16.540	0.702	-0.280	-0.821
3853	1	-2.918	0.118	-90.256	-19.518	-20.948	0.190	0.161	-0.592
3854	1	-2.398	2.276	-212.494	-10.893	-21.598	-0.327	0.036	-0.462
3855	1	-7.303	-11.770	-399.721	-505.808	-256.898	-0.795	-0.831	-0.713



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Plate	L/C	SQX (N/mm <sup>2</sup> )	SQY (N/mm <sup>2</sup> )	MX (kNm/m)	MY (kNm/m)	MXY (kNm/m)	SX (N/mm <sup>2</sup> )	SY (N/mm <sup>2</sup> )	SXY (N/mm <sup>2</sup> )
3856	1	1.527	-8.796	-268.119	-485.219	270.077	-0.203	-0.399	0.114
3857	1	-2.182	2.883	-186.182	-7.995	103.041	-0.075	0.041	0.030
3861	1	6.573	7.568	-3.95E 3	-7.1E 3	-3.25E 3	-0.137	-0.260	-0.229
3862	1	3.080	1.037	-2.77E 3	-1.67E 3	-337.692	-0.063	-0.009	-0.059
3863	1	2.049	0.503	-2.49E 3	-1.37E 3	411.551	-0.064	0.015	-0.018
3864	1	2.428	-2.388	-3E 3	-1.61E 3	1.47E 3	-0.040	0.091	-0.010
3865	1	0.941	3.889	-1.77E 3	-4.09E 3	-576.984	0.050	-0.166	-0.063
3866	1	2.387	2.551	-2.17E 3	-2.7E 3	-353.930	-0.033	-0.093	-0.089
3867	1	1.822	0.806	-1.36E 3	-1.93E 3	651.362	-0.010	-0.011	-0.047
3868	1	0.757	-0.540	19.973	-1.08E 3	204.160	-0.003	0.070	-0.028
3869	1	0.523	2.579	-1.33E 3	-2.87E 3	-156.165	0.053	-0.141	-0.027
3870	1	1.175	2.060	-1.11E 3	-2.42E 3	20.504	0.023	-0.082	-0.048
3871	1	1.285	1.304	-579.620	-1.7E 3	145.536	-0.002	-0.029	-0.057
3872	1	0.600	0.658	-137.074	-709.648	94.056	0.000	0.023	-0.029
3873	1	0.194	1.924	-994.618	-2.25E 3	-62.046	0.064	-0.135	-0.007
3874	1	0.554	1.635	-913.114	-1.87E 3	-13.368	0.029	-0.064	-0.013
3875	1	0.771	1.392	-474.383	-1.25E 3	-6.595	-0.000	-0.022	-0.041
3876	1	0.452	1.508	-110.426	-235.383	25.094	-0.004	-0.026	-0.034
3877	1	3.364	2.331	-2.52E 3	-1.56E 3	-1.42E 3	-0.175	-0.157	-0.110
3878	1	2.491	-0.965	-1.19E 3	72.720	24.762	-0.086	0.057	0.021
3879	1	0.130	0.213	274.985	-521.987	-123.395	0.001	-0.092	-0.031
3880	1	0.392	1.058	91.626	-570.392	-510.695	-0.006	-0.008	-0.057
3881	1	-0.105	0.107	-80.360	-10.395	-238.331	0.002	-0.026	-0.021
3882	1	-0.073	1.069	-252.699	-710.996	-370.190	-0.041	-0.074	-0.067
3883	1	-0.178	0.334	-76.508	285.086	-39.881	-0.004	0.008	-0.013
3884	1	-0.148	0.427	-285.369	-720.747	57.912	0.016	0.042	-0.044
3885	1	-0.055	0.476	383.236	426.145	-265.240	-0.009	0.050	-0.019
3886	1	0.104	0.190	288.860	-645.419	215.702	0.006	-0.000	-0.038
3887	1	2.667	-1.219	-2.29E 3	251.605	535.721	0.095	0.079	-0.050
3888	1	2.792	1.790	-1.42E 3	-283.401	23.856	0.044	-0.030	-0.007
3889	1	-0.144	2.032	-708.090	-1.9E 3	187.708	0.082	-0.181	0.036
3890	1	-0.412	1.482	-1.17E 3	-1.11E 3	-9.153	0.031	-0.041	0.019
3891	1	0.245	1.197	-854.869	-889.279	-540.814	0.022	0.011	-0.023
3892	1	0.415	2.267	112.496	246.524	-10.607	0.002	-0.079	-0.046
3893	1	-3.674	3.383	-738.623	-1.74E 3	626.450	0.085	-0.216	0.100
3894	1	-1.486	0.501	-1.16E 3	-30.830	-168.362	0.151	-0.003	-0.007
3895	1	-0.567	0.231	-1.97E 3	-395.163	-625.377	0.145	0.001	0.005
3896	1	1.060	2.644	-2.83E 3	275.764	-983.626	0.114	-0.075	-0.000
3897	1	19.703	8.164	-346.246	32.036	-113.003	-1.040	-0.200	-0.330
3898	1	17.733	-9.433	552.920	-103.472	-91.600	-0.426	0.501	-0.062
3899	1	-0.982	-2.071	37.469	10.647	70.023	0.064	-0.148	-0.094
3900	1	-3.173	0.302	-34.723	-131.448	66.237	-0.023	0.449	-0.299
3901	1	-2.065	-0.362	-6.241	-69.266	27.507	0.045	0.069	-0.194
3902	1	0.647	-1.908	-32.839	-117.159	15.132	0.094	0.232	-0.199
3903	1	4.905	-2.898	-309.480	-129.345	128.474	0.292	0.194	-0.312



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Plate	L/C	SQX (N/mm <sup>2</sup> )	SQY (N/mm <sup>2</sup> )	MX (kNm/m)	MY (kNm/m)	MXY (kNm/m)	SX (N/mm <sup>2</sup> )	SY (N/mm <sup>2</sup> )	SXY (N/mm <sup>2</sup> )
3904	1	1.169	0.128	-40.971	-138.963	-33.987	0.002	0.106	-0.081
3905	1	4.669	-2.294	-310.348	-154.427	-222.470	-0.510	-0.546	-0.468
3906	1	1.143	1.010	-42.775	-172.625	-58.307	-0.029	-0.086	-0.120
3907	1	-2.656	-4.518	-9.650	-153.278	-127.963	-0.012	-0.318	-0.314
3908	1	0.497	2.733	-48.800	-223.642	-117.055	-0.084	-0.314	-0.274
3909	1	-5.424	-1.304	-5.785	-82.114	-209.420	-0.118	0.003	-0.254
3910	1	-5.491	-0.981	-77.431	-360.933	-232.480	-0.032	-0.636	-0.334
3911	1	29.229	-11.360	-540.260	51.865	110.127	0.312	0.145	-0.103
3912	1	27.021	8.575	321.586	-577.300	-193.949	-0.268	-0.778	-0.485
3913	1	31.871	43.178	-823.871	-974.205	-653.671	-1.405	-2.910	-1.388
3914	1	6.957	-0.132	-115.445	10.077	30.276	-1.090	-0.043	-0.267
3915	1	6.518	-0.105	74.711	-7.384	44.266	-0.598	0.079	-0.379
3916	1	6.442	2.110	250.789	42.802	43.761	-0.104	-0.080	-0.441
3917	1	0.867	2.235	333.627	44.728	2.997	0.323	-0.079	-0.190
3918	1	-1.727	2.398	344.978	50.444	-4.851	0.474	-0.093	0.022
3919	1	-5.692	1.478	252.608	46.745	-52.639	0.410	0.027	0.050
3920	1	-5.294	-0.250	134.267	12.098	-72.411	0.411	0.096	-0.040
3921	1	-5.323	1.790	28.873	31.171	-78.507	0.415	0.054	-0.230
3922	1	-14.593	15.250	-248.930	-132.300	115.446	0.279	-1.241	0.152
3923	1	-21.114	34.443	264.582	521.575	-440.974	0.892	-1.677	0.501
3924	1	3.249	3.432	-76.975	-52.756	21.574	0.577	-0.215	-0.620
3925	1	3.150	-0.173	80.659	8.375	44.618	0.085	0.088	-0.507
3926	1	2.688	-1.979	233.513	7.949	40.296	-0.409	0.016	-0.445
3927	1	7.721	12.563	460.711	479.527	282.841	-0.836	-0.806	-0.697
3928	1	-2.964	8.532	283.644	451.661	-203.760	-0.067	-0.208	-0.012
3929	1	0.461	-2.792	202.397	4.758	-53.321	-0.003	0.035	-0.040
3930	1	-0.476	-0.252	128.255	17.625	-65.249	-0.004	0.092	0.050
3931	1	-0.986	-1.379	22.319	-0.328	-64.039	-0.008	0.069	0.240
3932	1	7.742	13.896	69.863	457.680	144.599	0.129	-1.246	-0.142
3933	1	-5.539	-4.112	3.6E 3	-1.96E 3	-2.56E 3	-0.088	0.176	0.085
3934	1	-2.658	-0.180	2.32E 3	2.04E 3	-805.291	-0.089	0.017	0.030
3935	1	-1.780	-0.206	2.4E 3	967.269	-842.974	-0.081	0.024	0.037
3936	1	-2.270	2.157	3.08E 3	2.18E 3	-1.84E 3	-0.151	-0.085	0.112
3937	1	-0.420	-1.536	2.77E 3	-682.737	-903.463	-0.057	0.100	0.030
3938	1	-1.445	-1.133	1.6E 3	578.735	-1.5E 3	-0.028	0.030	0.055
3939	1	-1.244	-0.321	1.2E 3	1.51E 3	-1.29E 3	-0.049	-0.008	0.061
3940	1	-0.516	0.674	-17.696	1.16E 3	-442.570	-0.003	-0.012	0.026
3941	1	-0.278	-0.848	1.95E 3	-41.193	-404.590	-0.043	0.044	0.010
3942	1	-0.621	-0.748	1.37E 3	469.151	-948.590	-0.026	0.015	0.043
3943	1	-0.755	-0.502	480.123	826.547	-834.984	-0.005	0.009	0.044
3944	1	-0.387	-0.097	121.490	511.706	-304.197	0.001	0.026	0.018
3945	1	-0.116	-0.463	1.58E 3	226.721	-193.246	-0.045	0.014	0.001
3946	1	-0.373	-0.441	1.13E 3	440.229	-375.267	-0.028	0.002	0.017
3947	1	-0.544	-0.498	473.308	442.470	-436.048	-0.002	0.008	0.029
3948	1	-0.318	-0.628	78.810	-118.160	-234.422	0.004	0.061	0.022



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Plate	L/C	SQX (N/mm <sup>2</sup> )	SQY (N/mm <sup>2</sup> )	MX (kNm/m)	MY (kNm/m)	MXY (kNm/m)	SX (N/mm <sup>2</sup> )	SY (N/mm <sup>2</sup> )	SXY (N/mm <sup>2</sup> )
3949	1	-3.247	-2.406	2.39E 3	815.279	1.07E 3	-0.042	0.101	-0.005
3950	1	-2.471	1.197	1.13E 3	-182.626	26.978	-0.086	-0.016	0.025
3951	1	-0.101	-0.409	-319.450	-53.271	-5.649	-0.001	0.090	0.017
3952	1	-0.312	-0.705	-153.721	333.696	385.852	0.005	-0.006	0.003
3953	1	0.043	-0.213	101.388	-416.152	110.643	-0.003	0.079	0.002
3954	1	-0.326	-0.805	293.823	373.255	210.563	0.006	0.006	0.018
3955	1	0.068	-0.234	115.916	-434.171	-171.239	-0.003	0.057	0.021
3956	1	-0.301	0.931	350.458	498.499	-355.902	-0.056	-0.100	0.068
3957	1	0.021	-0.165	-175.035	-70.212	-177.055	0.007	-0.010	0.039
3958	1	-0.096	0.957	-90.099	360.487	-361.488	-0.007	-0.033	0.049
3959	1	-1.459	0.656	1.3E 3	484.772	-676.970	-0.096	-0.065	0.063
3960	1	-0.908	0.232	555.597	60.359	-144.443	-0.024	0.022	0.025
3961	1	-0.007	-0.309	1.16E 3	264.590	-85.904	-0.066	0.003	-0.008
3962	1	-0.077	-0.221	1.07E 3	317.040	-21.574	-0.053	-0.006	-0.005
3963	1	-0.353	-0.350	625.491	393.887	88.023	-0.023	-0.013	0.001
3964	1	-0.384	-1.168	-104.922	-658.372	-231.052	-0.002	0.099	0.031
3965	1	0.442	-0.375	1.29E 3	248.180	-124.307	-0.096	0.002	-0.007
3966	1	0.222	-0.059	1.33E 3	40.668	56.167	-0.108	-0.005	-0.010
3967	1	0.173	0.083	1.62E 3	309.369	376.181	-0.126	0.006	-0.023
3968	1	-0.497	-1.487	1.92E 3	-844.283	382.273	-0.117	0.073	-0.012
3969	1	-21.329	-16.384	379.982	60.391	189.884	-0.440	0.109	-0.211
3970	1	-32.958	23.487	-665.872	-645.667	448.009	-1.266	-1.156	0.821
3971	1	-2.357	0.922	-28.920	-163.826	-61.698	-0.176	-0.058	0.312
3972	1	-0.480	6.683	7.610	-182.441	-59.193	-0.060	-0.990	0.298
3973	1	1.143	1.269	8.210	-48.837	-74.076	0.013	-0.385	0.341
3974	1	-1.252	6.836	16.799	-42.160	-76.217	-0.065	-0.663	0.269
3975	1	-8.689	4.993	286.042	136.192	-223.650	-0.540	-0.644	0.489
3976	1	-1.406	3.612	24.728	44.341	-59.067	-0.034	-0.403	0.122
3985	1	-2.644	-4.001	130.976	135.300	67.498	0.012	0.013	0.012
3986	1	-0.857	0.685	67.612	2.524	2.662	-0.000	-0.000	0.008
3987	1	-0.710	0.016	33.694	3.890	5.855	-0.011	-0.000	0.009
3988	1	-0.449	0.004	5.949	1.246	5.627	-0.022	-0.000	0.010
3989	1	-0.182	-0.012	-12.691	1.073	6.039	-0.033	0.000	0.010
3990	1	0.088	-0.013	-21.944	1.021	6.450	-0.044	0.000	0.010
3991	1	0.360	-0.015	-21.690	1.126	6.759	-0.055	-0.000	0.010
3995	1	-0.311	-0.749	106.440	11.802	-1.391	-0.085	0.003	0.007
3996	1	-1.558	-0.528	75.821	12.076	5.128	-0.072	0.001	0.011
3997	1	-1.167	0.054	34.614	3.228	6.554	-0.061	-0.001	0.010
3998	1	-0.889	-0.004	6.092	1.433	7.685	-0.050	-0.000	0.010
3999	1	-0.618	0.013	-12.677	1.057	7.328	-0.040	0.000	0.010
4000	1	-0.349	0.012	-21.975	1.000	6.916	-0.029	0.000	0.010
4001	1	-0.082	0.003	-21.922	1.150	6.419	-0.018	-0.000	0.010
4005	1	-3.846	-6.580	2.66E 3	9.58E 3	3.79E 3	-0.443	-0.773	-0.411
4006	1	-0.401	-0.093	379.256	-715.603	-697.141	-0.180	-0.027	-0.014
4007	1	-0.019	-0.026	994.942	289.848	-807.631	-0.152	0.017	0.031



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Plate	L/C	SQX (N/mm <sup>2</sup> )	SQY (N/mm <sup>2</sup> )	MX (kNm/m)	MY (kNm/m)	MXY (kNm/m)	SX (N/mm <sup>2</sup> )	SY (N/mm <sup>2</sup> )	SXY (N/mm <sup>2</sup> )
4008	1	-0.803	1.874	1.85E 3	-64.261	-898.186	-0.084	0.147	-0.018
4009	1	-0.717	-3.764	1.35E 3	5.12E 3	1.03E 3	-0.031	-0.526	-0.145
4010	1	-1.649	-1.817	2.12E 3	1.75E 3	669.906	-0.162	-0.229	-0.185
4011	1	-0.913	0.004	875.418	317.474	-748.905	-0.040	-0.041	-0.075
4012	1	-0.400	1.316	-82.216	-340.863	-244.841	-0.022	0.159	-0.053
4013	1	-0.465	-2.492	848.991	3.1E 3	78.925	0.081	-0.391	-0.058
4014	1	-1.102	-1.584	915.234	1.9E 3	260.318	0.014	-0.228	-0.131
4015	1	-1.107	-0.474	614.793	627.062	-55.232	-0.024	-0.083	-0.135
4016	1	-0.484	0.543	135.623	-430.701	-150.679	-0.000	0.060	-0.066
4017	1	-0.271	-1.754	723.140	2.03E 3	-91.023	0.171	-0.332	-0.013
4018	1	-0.703	-1.199	655.919	1.47E 3	52.780	0.086	-0.185	-0.044
4019	1	-0.873	-0.626	375.382	617.113	-8.089	-0.001	-0.071	-0.104
4020	1	-0.470	-0.262	97.769	-498.797	-51.608	-0.011	-0.061	-0.084
4033	1	-0.071	-1.628	529.807	1.41E 3	-261.249	0.269	-0.395	0.081
4034	1	-0.106	-0.965	901.876	939.153	-72.801	0.098	-0.148	0.067
4035	1	-0.540	-0.530	583.301	512.112	282.612	0.057	0.014	-0.050
4036	1	-0.473	-0.994	-115.274	-692.819	-84.978	0.010	-0.192	-0.111
4037	1	1.947	-2.280	1.28E 3	1.07E 3	-731.236	0.137	-0.533	0.314
4038	1	0.482	-0.284	1.17E 3	128.136	9.764	0.334	-0.005	0.011
4039	1	0.040	-0.029	1.5E 3	317.479	446.439	0.343	-0.012	0.016
4040	1	-0.670	-1.461	1.91E 3	-700.710	489.446	0.265	-0.171	-0.001
4057	1	-8.240	-13.117	0.786	248.332	-179.689	-0.879	-4.350	-2.021
4058	1	-2.445	2.464	113.502	-54.879	-202.680	-0.552	-0.254	0.100
4059	1	-4.221	0.410	171.775	-8.325	-139.938	-0.314	0.146	-0.084
4060	1	-4.479	-0.558	171.051	-26.348	-122.220	-0.070	-0.008	-0.211
4061	1	-3.282	-0.577	168.212	-30.943	-81.257	0.144	-0.037	-0.108
4062	1	-2.379	-0.567	145.628	-30.501	-50.602	0.234	-0.043	-0.008
4067	1	6.955	-12.231	420.768	-425.451	-79.107	0.167	-4.141	1.582
4068	1	1.660	3.516	271.831	22.330	-189.947	-0.161	-0.271	-0.539
4069	1	3.935	0.664	194.806	-6.380	-140.264	-0.398	0.142	-0.355
4070	1	4.692	1.041	194.248	-4.981	-131.665	-0.643	0.037	-0.228
4071	1	3.994	-0.698	213.274	-188.410	-176.779	-0.857	-0.371	-0.331
4072	1	-0.656	-1.132	170.457	-191.537	57.976	-0.536	-0.095	-0.020
4077	1	5.939	7.400	-2.51E 3	-7.05E 3	-2.08E 3	0.090	-0.258	-0.072
4078	1	2.620	0.890	-2.14E 3	-1.8E 3	108.700	0.071	-0.075	-0.011
4079	1	1.690	0.331	-2.26E 3	-1.41E 3	661.651	0.037	-0.069	-0.009
4080	1	2.067	-2.393	-3E 3	-2.05E 3	1.72E 3	0.054	-0.032	-0.036
4081	1	0.730	3.813	-1.88E 3	-4.01E 3	-99.937	0.056	-0.185	-0.012
4082	1	2.092	2.340	-1.96E 3	-2.56E 3	224.824	0.020	-0.102	-0.019
4083	1	1.552	0.602	-1.27E 3	-1.95E 3	1.06E 3	0.026	-0.060	-0.008
4084	1	0.644	-0.857	19.535	-1.27E 3	399.337	0.001	-0.048	-0.002
4085	1	0.419	2.522	-1.3E 3	-2.85E 3	254.871	0.056	-0.149	0.013
4086	1	1.057	1.899	-1.11E 3	-2.36E 3	459.377	0.031	-0.105	0.004
4087	1	1.165	1.044	-558.782	-1.65E 3	554.511	0.006	-0.066	0.004
4088	1	0.548	0.192	-137.825	-717.114	275.163	-0.000	-0.047	0.004



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4089	1	0.147	1.869	-993.356	-2.28E 3	293.548	0.067	-0.155	0.027
4090	1	0.522	1.476	-853.708	-1.89E 3	408.835	0.031	-0.100	0.042
4091	1	0.751	1.118	-464.032	-1.18E 3	396.055	-0.005	-0.054	0.023
4092	1	0.438	0.992	-100.575	-92.564	198.577	-0.003	-0.041	-0.002
4105	1	-0.126	1.952	-617.156	-2.01E 3	488.913	0.081	-0.217	0.073
4106	1	-0.325	1.285	-1.21E 3	-1.26E 3	430.010	-0.012	-0.103	0.100
4107	1	0.255	0.925	-775.167	-783.370	-128.335	0.009	-0.010	0.031
4108	1	0.412	1.689	107.653	526.150	184.786	-0.001	-0.042	-0.012
4109	1	-3.343	3.235	-1.61E 3	-1.93E 3	1.21E 3	-0.127	-0.345	0.231
4110	1	-1.362	0.399	-1.42E 3	-98.599	81.513	0.037	-0.006	0.029
4111	1	-0.630	0.161	-1.83E 3	-416.718	-453.592	0.082	0.003	0.017
4112	1	0.550	1.936	-2.36E 3	710.685	-618.632	0.100	-0.019	0.024
4129	1	15.242	28.653	-176.742	-853.083	-129.289	0.005	-1.980	-0.856
4130	1	2.022	-5.219	-175.828	38.282	186.971	0.137	-0.160	0.222
4131	1	4.363	-0.643	-220.710	-4.909	117.348	0.089	0.083	0.113
4132	1	4.661	0.582	-191.523	24.926	102.910	0.046	0.032	0.040
4133	1	3.128	0.719	-165.624	29.796	64.937	0.016	0.001	0.005
4134	1	2.086	0.721	-133.723	29.881	39.410	-0.001	0.003	0.002
4139	1	-12.220	20.813	-468.488	403.168	78.488	-0.357	-2.457	0.932
4140	1	0.500	-1.572	-372.380	-81.817	190.871	-0.489	-0.082	-0.145
4141	1	-2.339	-0.745	-247.950	-3.971	125.947	-0.441	0.074	-0.037
4142	1	-3.136	-1.053	-215.057	2.372	110.159	-0.398	0.023	0.037
4143	1	-2.103	1.824	-196.346	205.254	169.353	-0.368	0.073	0.071
4144	1	0.384	2.090	-151.955	207.460	-76.148	-0.536	-0.044	0.049
4149	1	-4.913	-3.969	2.15E 3	-2.05E 3	-3.3E 3	0.115	0.202	0.221
4150	1	-2.216	-0.163	1.65E 3	2.16E 3	-832.927	0.042	-0.052	0.055
4151	1	-1.455	-0.288	2.1E 3	1.06E 3	-750.958	0.028	-0.060	0.023
4152	1	-1.990	1.858	2.96E 3	2.01E 3	-1.63E 3	-0.006	-0.108	0.021
4153	1	-0.240	-1.486	2.87E 3	-786.141	-915.102	-0.047	0.091	0.060
4154	1	-1.189	-1.033	1.35E 3	437.089	-1.63E 3	0.028	0.029	0.095
4155	1	-1.045	-0.320	1E 3	1.46E 3	-1.26E 3	0.005	-0.038	0.052
4156	1	-0.449	0.597	-75.726	1.07E 3	-388.142	0.003	-0.078	0.022
4157	1	-0.212	-0.816	1.92E 3	-87.156	-343.965	-0.042	0.047	0.029
4158	1	-0.541	-0.683	1.36E 3	374.467	-910.009	-0.021	0.017	0.059
4159	1	-0.669	-0.446	438.395	726.664	-828.179	0.001	-0.010	0.059
4160	1	-0.348	-0.074	108.640	448.091	-302.938	-0.000	-0.035	0.025
4161	1	-0.118	-0.443	1.59E 3	205.578	-116.462	-0.046	0.017	0.020
4162	1	-0.364	-0.391	1.14E 3	391.189	-318.749	-0.031	0.006	0.036
4163	1	-0.527	-0.439	485.493	391.284	-407.965	-0.010	-0.003	0.043
4164	1	-0.308	-0.567	83.473	-159.363	-233.071	0.001	0.009	0.025
4177	1	-0.056	-0.295	1.16E 3	257.232	-27.811	-0.063	0.005	0.013
4178	1	-0.115	-0.184	1.09E 3	299.034	25.455	-0.047	-0.001	0.019
4179	1	-0.370	-0.294	649.476	384.975	125.359	-0.019	-0.009	0.023
4180	1	-0.391	-1.103	-104.086	-661.736	-219.068	-0.004	0.047	0.027
4181	1	0.332	-0.369	1.31E 3	247.366	-101.922	-0.090	0.002	0.004





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4182	1	0.130	-0.045	1.36E 3	38.691	76.229	-0.079	-0.003	0.004
4183	1	0.115	0.104	1.67E 3	304.857	394.162	-0.070	0.004	-0.003
4184	1	-0.498	-1.440	2E 3	-799.252	429.088	-0.048	0.045	0.005
4201	1	-2.548	-3.906	128.151	134.567	63.149	0.032	0.031	0.018
4202	1	-0.820	0.702	70.302	2.326	0.419	0.023	-0.000	0.009
4203	1	-0.700	0.018	39.708	3.795	3.859	0.012	-0.000	0.009
4204	1	-0.461	0.005	14.320	1.174	3.632	0.001	-0.000	0.010
4205	1	-0.213	-0.011	-2.694	1.003	4.014	-0.010	0.000	0.010
4206	1	0.037	-0.012	-11.016	0.959	4.388	-0.020	0.000	0.010
4211	1	-0.175	-0.754	107.986	11.884	-4.126	-0.086	0.004	0.002
4212	1	-1.405	-0.513	79.249	12.055	2.580	-0.077	0.003	0.010
4213	1	-1.025	0.056	40.730	3.174	4.299	-0.067	-0.001	0.010
4214	1	-0.765	-0.004	14.477	1.363	5.498	-0.056	-0.000	0.010
4215	1	-0.514	0.012	-2.680	0.989	5.179	-0.045	0.000	0.010
4216	1	-0.264	0.011	-11.056	0.932	4.801	-0.034	0.000	0.010
4221	1	3.829	6.562	-2.64E 3	-9.56E 3	-3.79E 3	-0.443	-0.769	-0.409
4222	1	0.393	0.091	-364.368	715.904	695.118	-0.183	-0.027	-0.014
4223	1	0.014	0.024	-977.412	-287.375	802.135	-0.156	0.017	0.033
4224	1	0.794	-1.860	-1.83E 3	63.062	890.168	-0.091	0.144	-0.015
4225	1	0.714	3.755	-1.34E 3	-5.11E 3	-1.03E 3	-0.032	-0.524	-0.143
4226	1	1.643	1.811	-2.1E 3	-1.75E 3	-671.860	-0.162	-0.229	-0.182
4227	1	0.907	-0.004	-868.989	-313.536	743.944	-0.042	-0.042	-0.073
4228	1	0.397	-1.309	80.752	337.370	244.849	-0.022	0.158	-0.052
4229	1	0.464	2.487	-841.895	-3.1E 3	-80.562	0.080	-0.390	-0.057
4230	1	1.098	1.580	-910.079	-1.9E 3	-262.260	0.013	-0.228	-0.129
4231	1	1.101	0.473	-612.808	-624.771	53.856	-0.024	-0.083	-0.134
4232	1	0.481	-0.541	-135.171	427.246	150.227	0.000	0.061	-0.065
4233	1	0.270	1.751	-716.632	-2.03E 3	90.112	0.169	-0.332	-0.013
4234	1	0.701	1.197	-651.367	-1.46E 3	-52.998	0.085	-0.185	-0.043
4235	1	0.869	0.625	-373.741	-615.393	7.373	-0.001	-0.071	-0.103
4236	1	0.468	0.260	-97.498	494.427	50.888	-0.010	-0.058	-0.083
4249	1	0.071	1.627	-524.304	-1.41E 3	260.863	0.267	-0.395	0.081
4250	1	0.105	0.965	-895.609	-936.193	73.478	0.095	-0.149	0.068
4251	1	0.537	0.530	-579.277	-509.412	-280.852	0.056	0.013	-0.049
4252	1	0.470	0.987	114.111	686.497	83.618	0.010	-0.187	-0.110
4253	1	-1.947	2.280	-1.27E 3	-1.07E 3	729.077	0.131	-0.534	0.315
4254	1	-0.482	0.284	-1.16E 3	-127.182	-9.565	0.329	-0.006	0.011
4255	1	-0.039	0.031	-1.49E 3	-315.169	-443.151	0.337	-0.011	0.015
4256	1	0.668	1.452	-1.89E 3	694.398	-485.813	0.260	-0.167	-0.001
4273	1	8.340	13.198	-3.981	-249.958	176.811	-0.874	-4.336	-2.016
4274	1	2.486	-2.444	-112.869	54.630	202.097	-0.549	-0.257	0.108
4275	1	4.247	-0.407	-169.697	8.265	139.799	-0.320	0.146	-0.076
4276	1	4.502	0.563	-167.998	26.325	122.197	-0.085	-0.006	-0.203
4277	1	3.288	0.583	-164.644	30.867	81.392	0.121	-0.035	-0.104
4278	1	2.381	0.573	-142.087	30.454	50.985	0.209	-0.040	-0.010



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4283	1	-6.998	12.285	-416.939	424.994	77.210	0.124	-4.153	1.591
4284	1	-1.646	-3.483	-269.995	-22.266	189.326	-0.200	-0.270	-0.531
4285	1	-3.905	-0.661	-192.554	6.386	140.089	-0.429	0.141	-0.347
4286	1	-4.659	-1.041	-191.083	4.993	131.542	-0.665	0.037	-0.221
4287	1	-3.945	0.750	-208.733	188.986	177.378	-0.870	-0.357	-0.319
4288	1	0.612	1.162	-166.985	191.957	-57.582	-0.551	-0.080	-0.028
4293	1	-5.922	-7.377	2.5E 3	7.02E 3	2.07E 3	0.092	-0.259	-0.073
4294	1	-2.613	-0.887	2.13E 3	1.79E 3	-107.547	0.072	-0.075	-0.011
4295	1	-1.685	-0.331	2.25E 3	1.41E 3	-657.813	0.039	-0.069	-0.010
4296	1	-2.060	2.382	2.98E 3	2.04E 3	-1.71E 3	0.058	-0.030	-0.038
4297	1	-0.728	-3.801	1.87E 3	4E 3	100.776	0.057	-0.186	-0.013
4298	1	-2.085	-2.332	1.96E 3	2.55E 3	-223.529	0.021	-0.102	-0.020
4299	1	-1.547	-0.601	1.27E 3	1.95E 3	-1.05E 3	0.027	-0.060	-0.009
4300	1	-0.641	0.852	-19.588	1.27E 3	-396.993	0.001	-0.048	-0.002
4301	1	-0.418	-2.513	1.3E 3	2.84E 3	-251.768	0.057	-0.149	0.013
4302	1	-1.054	-1.893	1.11E 3	2.35E 3	-455.996	0.032	-0.105	0.003
4303	1	-1.161	-1.042	556.837	1.64E 3	-551.142	0.006	-0.066	0.004
4304	1	-0.546	-0.194	137.260	715.427	-273.566	-0.000	-0.048	0.003
4305	1	-0.147	-1.863	990.752	2.27E 3	-290.253	0.067	-0.155	0.027
4306	1	-0.520	-1.471	851.618	1.88E 3	-405.228	0.032	-0.100	0.042
4307	1	-0.749	-1.115	462.810	1.18E 3	-392.841	-0.005	-0.054	0.022
4308	1	-0.437	-0.991	100.369	93.471	-197.176	-0.003	-0.042	-0.002
4309	1	-2.997	-2.031	2.52E 3	840.329	1.22E 3	0.006	-0.065	-0.010
4310	1	-2.341	1.273	1.34E 3	-228.641	-128.774	0.033	-0.012	-0.013
4311	1	-0.068	-0.162	-295.096	45.099	4.965	-0.001	-0.049	-0.015
4312	1	-0.306	-0.508	-147.766	349.861	414.938	-0.002	-0.028	-0.008
4313	1	0.112	-0.096	94.010	-302.324	134.961	-0.001	-0.033	-0.003
4314	1	-0.015	-0.486	322.870	507.340	273.114	-0.018	-0.044	-0.020
4315	1	0.145	-0.291	108.257	-369.862	-126.361	-0.002	-0.026	-0.003
4316	1	0.019	0.490	366.113	595.826	-292.832	0.017	0.024	-0.025
4317	1	0.048	-0.361	-266.399	-157.953	-36.557	-0.004	-0.006	-0.002
4318	1	-0.109	0.649	-176.202	457.676	-343.175	-0.002	0.004	-0.025
4319	1	-1.877	0.761	1.75E 3	275.111	-671.064	0.095	0.011	-0.027
4320	1	-1.556	-0.386	935.724	125.155	-105.280	0.073	-0.013	-0.001
4321	1	0.125	-1.946	615.833	2E 3	-485.226	0.081	-0.217	0.073
4322	1	0.324	-1.282	1.2E 3	1.26E 3	-426.187	-0.012	-0.102	0.099
4323	1	-0.255	-0.923	773.214	781.220	129.940	0.010	-0.009	0.031
4324	1	-0.410	-1.686	-107.169	-522.373	-183.102	-0.001	-0.043	-0.012
4325	1	3.331	-3.224	1.6E 3	1.92E 3	-1.2E 3	-0.125	-0.345	0.231
4326	1	1.357	-0.398	1.42E 3	98.007	-80.050	0.039	-0.006	0.029
4327	1	0.626	-0.161	1.82E 3	415.068	452.785	0.084	0.003	0.017
4328	1	-0.552	-1.932	2.35E 3	-705.306	618.542	0.102	-0.020	0.024
4329	1	-20.173	-10.033	601.665	-27.458	196.587	0.143	-0.236	0.022
4330	1	-13.766	12.502	-21.551	-27.709	-158.029	0.508	0.232	-0.326
4331	1	3.383	-1.435	35.080	-28.477	-136.204	0.064	-0.135	-0.162



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Plate	L/C	SQX (N/mm <sup>2</sup> )	SQY (N/mm <sup>2</sup> )	MX (kNm/m)	MY (kNm/m)	MXY (kNm/m)	SX (N/mm <sup>2</sup> )	SY (N/mm <sup>2</sup> )	SXY (N/mm <sup>2</sup> )
4332	1	-0.573	4.367	72.612	61.070	-161.268	0.014	0.131	-0.142
4333	1	2.196	-2.512	24.911	48.206	-116.249	-0.002	0.029	-0.174
4334	1	-1.380	5.907	54.572	87.211	-119.325	0.028	-0.033	-0.131
4335	1	-7.002	0.949	374.504	139.948	-265.786	0.190	0.154	-0.230
4336	1	-1.591	2.910	48.125	113.358	-63.967	0.001	-0.158	-0.074
4337	1	-5.784	-1.661	365.185	106.663	140.188	-0.167	-0.200	-0.206
4338	1	-1.594	1.672	48.925	139.272	-41.575	-0.005	-0.275	-0.071
4339	1	2.551	1.227	16.527	98.495	22.074	-0.046	-0.090	-0.125
4340	1	-1.036	-0.751	52.677	155.348	15.447	-0.073	-0.385	-0.152
4341	1	3.567	-0.494	22.807	70.140	63.152	-0.077	0.069	-0.017
4342	1	1.649	1.432	62.000	206.676	78.999	-0.034	-0.544	-0.260
4343	1	-14.448	4.534	404.118	9.243	-141.330	0.646	0.049	-0.118
4344	1	-11.266	-3.132	-48.714	305.610	122.022	0.370	-0.524	-0.159
4345	1	-15.239	-28.601	178.871	850.012	131.030	-0.017	-1.998	-0.868
4346	1	-2.026	5.179	175.210	-38.092	-185.366	0.120	-0.160	0.215
4347	1	-4.347	0.638	218.921	4.888	-116.296	0.080	0.083	0.106
4348	1	-4.642	-0.584	189.185	-24.876	-101.947	0.044	0.031	0.033
4349	1	-3.102	-0.721	162.986	-29.698	-64.130	0.020	-0.001	0.003
4350	1	-2.059	-0.723	131.183	-29.789	-38.807	0.006	0.002	0.002
4351	1	-0.386	-0.746	92.598	-25.720	-1.866	-0.010	-0.004	0.020
4352	1	-0.451	0.204	68.471	-6.740	9.812	-0.039	0.025	0.003
4353	1	-0.862	-0.219	27.788	-24.601	27.652	-0.062	-0.028	-0.036
4354	1	4.550	-8.587	42.908	106.553	-49.150	-0.139	-0.747	0.285
4355	1	12.184	-20.775	464.454	-402.134	-75.926	-0.345	-2.457	0.931
4356	1	-0.524	1.550	370.142	81.313	-189.145	-0.482	-0.085	-0.152
4357	1	2.295	0.740	245.947	3.912	-124.820	-0.442	0.074	-0.044
4358	1	3.088	1.052	212.635	-2.385	-109.126	-0.406	0.023	0.030
4359	1	2.049	-1.849	193.254	-205.219	-168.565	-0.383	0.060	0.060
4360	1	-0.376	-2.109	149.226	-207.383	76.628	-0.536	-0.047	0.048
4361	1	-1.549	1.051	111.320	-5.309	10.216	-0.520	0.003	0.030
4362	1	-0.986	0.259	76.430	-8.564	12.673	-0.491	0.023	0.047
4363	1	-0.076	1.811	75.557	8.673	28.638	-0.468	-0.027	0.086
4364	1	-4.986	-10.629	36.372	-313.048	-96.018	-0.391	-0.705	-0.235
4365	1	4.901	3.963	-2.14E 3	2.04E 3	3.29E 3	0.117	0.202	0.222
4366	1	2.210	0.162	-1.65E 3	-2.15E 3	831.345	0.043	-0.053	0.055
4367	1	1.451	0.286	-2.09E 3	-1.06E 3	749.122	0.030	-0.061	0.023
4368	1	1.983	-1.852	-2.95E 3	-2.01E 3	1.63E 3	-0.003	-0.108	0.020
4369	1	0.239	1.485	-2.86E 3	779.300	912.904	-0.047	0.091	0.060
4370	1	1.187	1.031	-1.34E 3	-437.877	1.63E 3	0.029	0.029	0.095
4371	1	1.042	0.320	-1E 3	-1.46E 3	1.26E 3	0.005	-0.038	0.052
4372	1	0.447	-0.595	75.063	-1.07E 3	387.589	0.003	-0.079	0.022
4373	1	0.212	0.816	-1.91E 3	84.418	344.019	-0.042	0.047	0.029
4374	1	0.539	0.682	-1.35E 3	-374.921	907.803	-0.021	0.017	0.059
4375	1	0.667	0.445	-437.374	-725.536	826.250	0.001	-0.009	0.059
4376	1	0.347	0.074	-108.358	-448.079	302.379	-0.000	-0.036	0.025



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4377	1	0.118	0.443	-1.59E 3	-206.403	117.247	-0.046	0.017	0.020
4378	1	0.363	0.391	-1.14E 3	-390.954	318.700	-0.031	0.006	0.036
4379	1	0.526	0.439	-484.170	-390.794	407.296	-0.010	-0.003	0.043
4380	1	0.307	0.565	-83.280	157.934	232.524	0.001	0.009	0.025
4381	1	2.999	2.171	-2.51E 3	-809.631	-1.24E 3	0.052	0.053	0.036
4382	1	2.357	-1.063	-1.33E 3	357.737	58.084	0.021	-0.052	-0.007
4383	1	0.094	0.284	300.534	94.082	-52.159	-0.001	0.032	0.011
4384	1	0.305	0.736	162.985	-223.214	-453.623	0.003	-0.031	0.018
4385	1	-0.070	0.120	-115.828	525.389	-156.269	-0.002	0.010	0.009
4386	1	0.287	0.812	-377.582	-358.541	-300.383	0.008	-0.009	0.020
4393	1	0.056	0.296	-1.16E 3	-257.418	28.738	-0.063	0.005	0.013
4394	1	0.114	0.185	-1.09E 3	-298.573	-24.427	-0.047	-0.001	0.019
4395	1	0.369	0.294	-647.283	-383.851	-124.298	-0.019	-0.009	0.023
4396	1	0.390	1.099	103.574	658.957	218.409	-0.004	0.046	0.027
4397	1	-0.333	0.369	-1.31E 3	-247.429	102.392	-0.089	0.002	0.004
4398	1	-0.130	0.045	-1.36E 3	-38.578	-75.611	-0.079	-0.003	0.004
4399	1	-0.115	-0.104	-1.66E 3	-303.780	-392.436	-0.070	0.004	-0.003
4400	1	0.496	1.435	-1.99E 3	796.331	-427.188	-0.047	0.045	0.006
4401	1	21.395	15.506	-626.600	-43.847	-266.413	0.367	-0.063	0.130
4402	1	24.841	-22.437	103.611	570.599	-113.927	0.184	-0.298	-0.013
4403	1	-0.975	1.755	-42.161	133.506	117.225	-0.012	-0.065	0.024
4404	1	3.224	-9.150	-53.631	160.455	142.897	0.015	-0.295	0.092
4405	1	-1.738	1.398	-27.184	30.225	136.125	-0.015	-0.130	0.053
4406	1	1.892	-9.256	-47.176	15.878	148.761	-0.032	-0.230	0.063
4407	1	9.816	-3.046	-388.223	-150.724	325.259	-0.109	-0.172	0.098
4408	1	1.880	-5.276	-41.374	-66.094	110.621	-0.005	-0.188	0.018
4417	1	2.548	3.906	-128.043	-134.606	-63.158	0.032	0.031	0.018
4418	1	0.819	-0.702	-70.198	-2.326	-0.432	0.023	-0.000	0.009
4419	1	0.700	-0.018	-39.597	-3.796	-3.875	0.012	-0.000	0.009
4420	1	0.460	-0.005	-14.197	-1.174	-3.648	0.001	-0.000	0.010
4421	1	0.213	0.011	2.829	-1.003	-4.031	-0.009	0.000	0.010
4422	1	-0.037	0.012	11.164	-0.959	-4.405	-0.020	0.000	0.010
4427	1	0.176	0.754	-107.921	-11.891	4.120	-0.086	0.004	0.002
4428	1	1.406	0.513	-79.156	-12.060	-2.593	-0.077	0.003	0.010
4429	1	1.026	-0.056	-40.620	-3.175	-4.316	-0.067	-0.001	0.010
4430	1	0.766	0.004	-14.354	-1.363	-5.515	-0.056	-0.000	0.010
4431	1	0.515	-0.012	2.815	-0.989	-5.197	-0.045	0.000	0.010
4432	1	0.265	-0.011	11.203	-0.932	-4.818	-0.034	0.000	0.010
4652	1	-4.796	-3.312	8.7E 3	4.27E 3	4.44E 3	-0.684	-0.633	-0.393
4653	1	-2.894	0.864	4.55E 3	208.527	-812.125	-0.447	0.338	0.118
4654	1	-0.019	-0.459	-739.100	1.58E 3	-198.530	-0.037	-0.409	-0.055
4655	1	-0.944	-1.830	-170.080	1.08E 3	1.09E 3	-0.023	0.115	-0.220
4656	1	-5.569	-3.629	-3.74E 3	-224.874	-832.940	-0.971	0.700	-0.361
4657	1	-6.342	4.168	-5.74E 3	-1.81E 3	2.52E 3	-1.191	-0.056	0.475
4658	1	-0.713	0.362	297.359	-1.19E 3	716.024	-0.018	0.623	0.186



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4659	1	-0.141	0.077	624.411	-706.913	-418.383	0.020	0.021	-0.072
4660	1	0.236	0.379	120.661	-1.27E 3	123.358	0.032	0.539	0.077
4661	1	0.136	-0.041	56.442	-521.335	147.753	0.036	0.105	0.038
4662	1	0.354	-0.110	-7.982	-1.49E 3	188.206	0.022	0.443	0.048
4663	1	0.353	0.347	-2.312	-220.100	235.954	0.018	0.200	0.067
4664	1	0.165	-0.701	-109.969	-2E 3	263.894	0.023	0.354	-0.012
4665	1	0.220	0.839	56.173	343.446	346.388	0.014	0.290	0.127
4666	1	-4.559	1.692	-35.723	-2.22E 3	312.743	-0.447	0.262	-0.018
4667	1	-4.615	-1.655	-1.09E 3	586.031	-542.351	-0.370	0.382	0.133
4668	1	-0.001	0.184	-1.25E 3	-416.893	-396.199	-0.637	0.034	-0.081
4669	1	0.760	-1.784	-1.17E 3	111.089	127.361	-0.438	0.446	-0.103
4670	1	0.941	-0.565	-479.425	-364.446	219.734	0.038	0.100	-0.047
4671	1	0.354	-1.139	51.896	-424.568	-253.302	-0.038	0.380	-0.136
4672	1	1.092	1.382	-943.388	-620.606	-1.14E 3	-0.238	-0.320	-0.370
4673	1	0.256	-0.510	-283.312	-1.17E 3	-589.913	-0.009	0.204	-0.166
4674	1	3.654	-1.359	-173.107	558.344	-22.285	0.067	0.155	-0.222
4675	1	4.131	2.127	10.270	-2.11E 3	-777.172	-0.284	-0.271	-0.315
4676	1	-23.773	-11.203	920.536	-282.544	257.115	-5.500	0.344	-2.675
4677	1	-21.622	-5.698	130.297	-327.059	-112.832	-5.350	0.923	-0.275
4678	1	-27.755	12.770	-529.398	-524.362	-57.896	-6.272	0.311	1.758
4679	1	-48.962	22.930	-1.96E 3	-749.841	818.835	-8.876	-5.933	5.984
4680	1	4.663	0.511	-89.502	-310.353	-130.895	-0.172	1.069	0.828
4681	1	-4.166	0.869	34.863	-291.113	-145.717	-1.449	-1.369	1.116
4682	1	-5.559	13.536	-186.607	-309.415	-64.880	-1.930	-2.611	2.388
4683	1	12.538	2.407	203.481	-254.948	-93.009	-0.202	-1.443	0.460
4684	1	3.858	-3.346	-44.442	-157.563	-82.014	0.128	-0.917	1.015
4685	1	-0.769	8.574	87.042	-122.961	-149.743	-0.483	-1.861	2.222
4686	1	0.167	4.302	36.977	-116.167	-74.180	-0.175	-1.296	1.288
4687	1	-1.673	6.317	-49.843	-109.818	-28.023	0.195	-0.280	0.269
4688	1	-11.830	0.793	715.481	27.808	-393.951	-2.449	-3.668	2.348
4689	1	-5.986	6.818	257.116	3.260	-88.906	-1.052	-0.974	1.388
4690	1	-3.038	2.892	86.518	31.606	-42.384	-0.313	-0.335	0.799
4691	1	-0.807	3.869	23.630	31.339	-31.483	-0.057	0.621	0.257
4692	1	-10.607	0.924	714.609	53.630	328.465	-0.984	-1.473	-0.189
4693	1	-5.725	-3.800	273.011	58.407	18.213	-0.678	-0.969	0.031
4694	1	-2.890	0.177	104.581	88.023	-19.428	-0.206	-0.033	0.249
4695	1	-1.148	0.949	19.275	88.773	-11.199	-0.015	1.116	0.128
4696	1	4.317	3.857	-31.859	23.936	20.384	0.053	-1.325	-0.001
4697	1	-0.111	-4.258	146.431	45.003	68.231	0.173	-1.166	-0.064
4698	1	-1.075	-1.022	90.925	50.716	20.629	0.105	-0.236	0.118
4699	1	-1.377	-1.802	5.079	70.278	10.248	0.102	1.368	0.166
4700	1	5.958	-1.907	-60.682	7.285	43.879	-0.030	-1.178	-0.186
4701	1	-1.619	3.889	156.870	17.474	23.920	-0.308	-1.389	0.047
4702	1	-4.356	-3.763	40.000	-7.219	47.659	0.006	-0.479	0.035
4703	1	3.003	-2.920	66.886	14.864	56.067	-0.254	1.686	0.322



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4704	1	-19.762	5.284	934.800	95.651	-385.084	-2.618	-1.855	1.393
4705	1	-13.085	5.379	309.432	39.412	6.250	-2.415	-0.395	0.054
4706	1	-12.176	-1.432	-23.256	-15.415	50.166	-2.658	-0.223	-0.667
4707	1	-20.810	-15.408	-548.721	-303.480	-308.531	-2.313	1.113	-0.561
4708	1	10.491	35.660	16.374	-843.153	-216.830	2.629	1.564	1.227
4709	1	1.226	-10.376	-206.337	50.512	150.723	1.993	-0.360	0.979
4710	1	5.203	0.500	-149.777	-10.701	47.680	0.584	0.022	1.036
4711	1	4.565	-0.037	-30.526	-12.230	55.013	-0.903	0.051	0.989
4712	1	4.549	-0.716	74.360	37.910	61.046	-2.328	0.563	0.652
4713	1	-9.004	14.271	-131.383	-593.613	318.906	-2.674	-3.319	1.281
4714	1	-2.334	26.512	-899.595	242.893	346.075	-2.077	-0.406	0.828
4715	1	6.203	-5.551	-373.183	-123.768	142.542	-1.441	0.295	1.076
4716	1	1.504	0.501	-154.149	-3.699	42.743	-0.032	-0.043	1.019
4717	1	1.418	-0.297	-25.943	1.244	43.238	1.454	0.144	1.066
4718	1	0.710	2.136	88.344	-37.959	47.747	2.878	-0.265	1.403
4719	1	13.533	13.667	484.900	151.759	307.218	3.224	-1.205	0.774
4722	1	-2.958	1.145	106.895	-16.305	-62.991	-3.005	-0.085	0.590
4723	1	3.117	-2.588	105.318	-61.445	0.040	-1.647	-0.133	-1.230
4724	1	4.383	2.187	-8.32E 3	-2.08E 3	-3.48E 3	-0.514	-0.220	-0.249
4725	1	2.759	-0.599	-4.45E 3	-515.461	756.130	-0.484	0.231	0.107
4728	1	5.568	3.772	3.7E 3	107.699	816.880	-1.298	-0.020	-0.552
4729	1	6.270	-4.290	5.67E 3	1.39E 3	-2.29E 3	-1.114	0.267	0.492
4730	1	0.688	-0.161	-329.512	963.752	-622.501	0.014	0.013	0.109
4731	1	0.125	-0.256	-651.529	400.047	518.575	-0.020	0.234	-0.169
4732	1	-0.200	-0.191	-115.898	945.077	-19.935	0.038	0.054	-0.009
4733	1	-0.098	-0.126	-49.390	315.193	-53.222	0.034	0.193	-0.051
4748	1	36.429	19.098	-988.217	-170.455	-502.744	-6.176	-1.547	-3.633
4749	1	23.649	0.521	-120.508	244.096	26.256	-5.261	0.997	-0.569
4750	1	28.733	-13.975	537.697	467.495	-12.396	-5.689	0.473	1.210
4751	1	51.557	-26.091	1.98E 3	784.781	-890.806	-6.538	-1.107	3.301
4752	1	-5.691	-0.078	82.326	103.700	123.684	-0.178	0.332	0.341
4753	1	6.917	-0.161	-26.693	108.370	120.096	-1.359	-1.320	-0.207
4754	1	6.851	-15.009	207.852	178.545	44.599	-1.146	-1.188	0.537
4755	1	-12.729	-3.723	-193.833	151.889	85.605	-0.235	0.992	-0.363
4756	1	-3.323	2.581	35.382	-41.400	80.611	0.157	-0.305	0.412
4757	1	1.534	-8.393	-66.822	-61.361	153.457	0.044	-0.856	0.435
4758	1	0.236	-4.362	-11.974	-44.614	92.485	0.093	-0.575	-0.208
4759	1	1.652	-7.320	58.121	-34.866	41.384	0.200	0.552	-0.330
5068	1	3.850	4.295	-4.2E 3	-3.43E 3	-342.041	-0.084	-0.081	-0.046
5069	1	2.131	-1.362	-3.52E 3	-1.89E 3	1.73E 3	-0.095	-0.013	0.045
5070	1	0.592	1.840	-2.45E 3	-2.1E 3	335.696	0.005	-0.084	0.007
5071	1	1.107	0.934	-390.495	-1.03E 3	118.486	-0.005	-0.013	-0.013
5072	1	5.459	3.962	3.96E 3	197.405	1.02E 3	-0.278	0.088	-0.114
5073	1	5.941	-3.939	5.73E 3	1.43E 3	-2.45E 3	-0.340	-0.027	0.131
5074	1	0.644	0.197	-321.488	1.13E 3	-638.291	-0.007	0.081	0.045



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Plate	L/C	SQX (N/mm <sup>2</sup> )	SQY (N/mm <sup>2</sup> )	MX (kNm/m)	MY (kNm/m)	MXY (kNm/m)	SX (N/mm <sup>2</sup> )	SY (N/mm <sup>2</sup> )	SXY (N/mm <sup>2</sup> )
5075	1	0.095	-0.074	-602.412	522.832	517.224	0.005	-0.019	-0.028
5076	1	-0.245	0.229	-116.509	1.24E 3	-45.129	0.009	0.070	0.014
5077	1	-0.148	-0.005	-66.991	460.940	-66.610	0.010	-0.008	0.003
5078	1	-0.344	0.715	-3.189	1.5E 3	-105.965	0.001	0.055	0.008
5079	1	-0.336	-0.390	4.526	274.341	-157.982	0.001	0.006	0.009
5080	1	-0.083	1.255	129.157	2.04E 3	-159.186	0.006	0.042	0.007
5081	1	-0.191	-0.831	-75.004	-163.237	-273.001	-0.001	0.020	0.010
5082	1	4.597	-1.323	115.410	2.23E 3	-310.429	-0.005	0.034	-0.005
5083	1	4.959	1.848	1.36E 3	-216.200	780.685	0.011	0.027	0.022
5084	1	-1.581	-1.103	1.64E 3	1.06E 3	636.163	-0.160	0.065	-0.035
5085	1	-1.999	2.009	1.46E 3	1.53E 3	-628.237	-0.226	-0.044	0.131
5086	1	-1.172	0.564	739.552	1.27E 3	-611.590	-0.063	-0.017	0.085
5087	1	-0.457	0.446	41.889	1.6E 3	68.049	-0.006	0.038	0.011
5088	1	-1.355	-2.074	1.23E 3	1.13E 3	965.094	-0.034	-0.025	-0.026
5089	1	-0.183	-0.279	441.670	1.94E 3	620.192	-0.004	0.058	-0.008
5090	1	-2.846	0.456	-363.976	-179.289	-103.395	-0.004	0.012	-0.020
5091	1	-4.132	-2.705	-486.621	2.58E 3	837.164	-0.023	0.021	-0.014
5092	1	22.993	11.773	-795.083	295.592	-190.507	-1.747	-0.327	-0.872
5093	1	22.102	5.538	-41.769	316.997	103.365	-1.691	0.073	-0.051
5094	1	29.106	-14.058	642.255	524.238	21.368	-1.976	0.001	0.604
5095	1	51.783	-21.160	2.19E 3	756.656	-946.651	-2.826	-1.998	1.980
5096	1	-3.685	-0.090	91.562	323.568	126.166	-0.057	-0.107	0.263
5097	1	4.437	-1.604	18.284	303.166	140.586	-0.482	-0.702	0.384
5098	1	5.560	-14.671	248.062	320.640	25.093	-0.645	-0.960	0.827
5099	1	-14.160	-0.066	-217.229	263.591	67.103	-0.066	-0.483	0.188
5100	1	-2.931	2.528	42.056	175.778	73.336	0.043	-0.768	0.335
5101	1	0.870	-8.022	-47.003	141.569	127.010	-0.191	-0.898	0.764
5102	1	-0.675	-4.288	-7.044	134.889	51.292	-0.079	-0.533	0.455
5103	1	1.470	-5.173	63.215	134.866	7.152	0.057	-0.052	0.108
5104	1	10.106	-1.208	-591.951	2.330	325.145	-0.907	-1.721	0.836
5105	1	5.157	-6.130	-201.547	19.819	71.135	-0.383	-0.582	0.468
5106	1	2.546	-2.881	-58.919	-1.106	29.126	-0.118	-0.212	0.269
5107	1	0.489	-3.261	-18.525	0.986	21.642	-0.022	0.263	0.090
5108	1	9.373	-0.470	-594.135	-39.128	-277.025	-0.273	-0.833	-0.042
5109	1	4.962	2.993	-217.954	-36.477	-16.144	-0.202	-0.578	-0.003
5110	1	2.413	-0.252	-77.713	-57.828	15.589	-0.051	-0.115	0.084
5111	1	0.856	-0.955	-13.774	-56.087	8.991	-0.003	0.425	0.049
5112	1	-3.479	-3.239	29.021	-7.321	-19.083	0.024	-0.780	-0.027
5113	1	0.258	3.771	-109.740	-26.537	-58.248	0.081	-0.644	-0.031
5114	1	0.692	0.961	-63.734	-30.474	-13.782	0.052	-0.202	0.064
5115	1	1.146	1.298	5.233	-43.576	-2.360	0.051	0.525	0.082
5116	1	-4.973	1.319	57.622	9.963	-44.739	-0.024	-0.706	-0.080
5117	1	1.830	-3.024	-109.809	-0.523	-27.512	-0.225	-0.752	0.045
5118	1	4.085	4.452	6.767	22.855	-26.574	-0.086	-0.310	-0.024
5119	1	-3.924	1.520	-73.729	0.041	-41.129	-0.082	0.666	0.148



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### Cont...

Plate	L/C	SQX (N/mm <sup>2</sup> )	SQY (N/mm <sup>2</sup> )	MX (kNm/m)	MY (kNm/m)	MXY (kNm/m)	SX (N/mm <sup>2</sup> )	SY (N/mm <sup>2</sup> )	SXY (N/mm <sup>2</sup> )
5120	1	18.339	-5.685	-793.637	-71.844	319.157	-1.353	-1.108	0.778
5121	1	12.502	-4.616	-229.060	-26.851	-15.229	-1.186	-0.197	0.037
5122	1	12.284	2.418	103.056	27.605	-28.688	-1.295	-0.132	-0.328
5123	1	21.293	13.625	682.341	302.368	369.616	-1.259	0.336	-0.398
5124	1	-8.022	-35.948	-49.658	888.015	233.885	0.022	0.282	-0.117
5125	1	0.605	11.141	249.899	-53.929	-127.344	0.011	-0.144	0.058
5126	1	-3.755	-0.473	213.458	11.710	-15.344	-0.175	-0.002	0.137
5127	1	-3.084	-0.068	105.278	13.560	-24.229	-0.366	0.058	0.098
5128	1	-4.570	4.081	-17.598	-45.354	7.248	-0.541	-0.006	-0.048
5129	1	9.933	-23.803	13.842	767.376	-347.298	-0.717	-1.803	0.814
5130	1	0.471	-26.788	1.01E 3	-243.033	-372.740	-1.217	-0.007	0.382
5131	1	-7.428	6.019	434.522	134.187	-120.958	-1.205	-0.018	0.207
5132	1	-2.346	-0.485	218.971	4.102	-11.547	-1.019	-0.017	0.128
5133	1	-2.293	0.045	103.295	-0.480	-12.318	-0.828	0.057	0.167
5134	1	-0.084	0.510	30.580	79.306	21.219	-0.653	-0.040	0.313
5135	1	-13.857	-22.035	-168.156	-236.418	-114.568	-0.478	-1.555	-0.548
5138	1	3.140	-1.143	-221.627	10.288	17.685	-1.059	0.203	-0.323
5139	1	-2.693	2.403	-177.451	74.631	-16.263	-0.926	-0.234	-0.545
5140	1	-3.394	-3.134	4.08E 3	643.585	-1.26E 3	-0.084	0.096	0.068
5141	1	-2.003	1.293	3.48E 3	2.23E 3	-1.93E 3	-0.138	-0.043	0.081
5144	1	-5.440	-4.133	-3.91E 3	-95.774	-1E 3	-0.415	-0.197	-0.186
5145	1	-5.820	3.988	-5.62E 3	-767.921	2.11E 3	-0.325	0.144	0.127
5146	1	-0.583	-0.487	368.277	-857.595	504.163	0.008	-0.155	0.014
5147	1	-0.049	0.242	641.072	-60.947	-661.070	-0.007	0.102	-0.072
5148	1	0.217	-0.539	108.081	-843.925	-96.558	0.012	-0.111	-0.023
5149	1	0.118	0.193	58.525	-157.731	-62.490	0.010	0.059	-0.035
5164	1	-38.395	-24.041	877.222	253.692	438.682	-1.935	-0.677	-1.127
5165	1	-24.543	0.895	31.445	-218.011	-70.850	-1.633	0.134	-0.235
5166	1	-30.206	15.500	-650.955	-455.768	-5.219	-1.740	0.060	0.297
5167	1	-54.339	26.489	-2.21E 3	-781.536	978.698	-1.939	-0.148	0.882
5168	1	4.985	-3.170	-78.120	-82.537	-170.150	-0.055	-0.046	0.090
5169	1	-7.572	0.832	-22.870	-90.828	-180.524	-0.400	-0.524	-0.140
5170	1	-7.036	16.254	-266.700	-167.529	-64.973	-0.316	-0.407	0.042
5171	1	14.274	3.451	208.095	-141.040	-99.570	-0.070	0.345	-0.175
5172	1	2.994	-4.914	-41.675	38.415	-122.191	0.052	-0.175	0.103
5173	1	-1.718	8.414	47.934	62.314	-203.623	0.043	-0.307	0.030
5174	1	0.088	4.330	-6.638	45.804	-128.860	0.049	-0.242	-0.166
5175	1	-1.565	8.061	-69.144	32.563	-59.168	0.064	0.092	-0.149
5484	1	-3.859	-4.299	4.22E 3	3.43E 3	351.084	-0.076	-0.081	-0.038
5485	1	-2.138	1.366	3.53E 3	1.88E 3	-1.73E 3	-0.092	-0.023	0.047
5486	1	-0.592	-1.840	2.44E 3	2.11E 3	-338.229	0.005	-0.085	0.013
5487	1	-1.108	-0.935	389.995	1.03E 3	-117.568	-0.005	-0.016	-0.008
5488	1	-5.479	-3.981	-3.98E 3	-194.337	-1.02E 3	-0.278	0.062	-0.115
5489	1	-5.959	3.950	-5.75E 3	-1.42E 3	2.45E 3	-0.329	-0.019	0.127
5490	1	-0.645	-0.205	322.923	-1.12E 3	638.397	-0.006	0.058	0.041





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Plate	L/C	SQX (N/mm <sup>2</sup> )	SQY (N/mm <sup>2</sup> )	MX (kNm/m)	MY (kNm/m)	MXY (kNm/m)	SX (N/mm <sup>2</sup> )	SY (N/mm <sup>2</sup> )	SXY (N/mm <sup>2</sup> )
5491	1	-0.095	0.073	604.532	-515.600	-521.023	0.004	-0.014	-0.030
5492	1	0.245	-0.236	116.842	-1.23E 3	43.280	0.009	0.050	0.011
5493	1	0.148	0.005	67.203	-456.567	64.915	0.010	-0.007	0.001
5494	1	0.343	-0.723	3.147	-1.5E 3	104.182	0.001	0.040	0.006
5495	1	0.336	0.391	-4.639	-272.578	156.267	0.000	0.004	0.006
5496	1	0.082	-1.262	-129.069	-2.04E 3	157.070	0.006	0.031	0.007
5497	1	0.190	0.830	75.417	162.150	271.266	-0.001	0.013	0.005
5498	1	-4.591	1.315	-116.141	-2.23E 3	309.013	0.011	0.027	-0.006
5499	1	-4.957	-1.847	-1.36E 3	212.055	-782.610	0.024	0.016	0.017
5500	1	1.581	1.101	-1.64E 3	-1.06E 3	-635.497	-0.156	0.072	-0.031
5501	1	1.999	-2.013	-1.46E 3	-1.53E 3	628.416	-0.235	-0.062	0.142
5502	1	1.172	-0.566	-739.661	-1.27E 3	612.160	-0.071	-0.022	0.096
5503	1	0.457	-0.450	-41.867	-1.6E 3	-67.824	-0.006	0.032	0.016
5504	1	1.355	2.074	-1.23E 3	-1.13E 3	-963.911	-0.029	-0.018	-0.017
5505	1	0.182	0.274	-442.529	-1.94E 3	-620.642	-0.004	0.058	-0.005
5506	1	2.848	-0.456	367.272	179.691	103.819	-0.004	0.009	-0.016
5507	1	4.132	2.700	490.820	-2.58E 3	-836.783	-0.014	0.032	-0.006
5508	1	-23.073	-11.873	797.585	-295.597	189.598	-1.773	-0.426	-0.906
5509	1	-22.185	-5.561	41.842	-316.667	-105.293	-1.680	0.071	-0.068
5510	1	-29.210	14.106	-644.346	-525.168	-23.024	-1.932	0.034	0.575
5511	1	-51.952	21.285	-2.2E 3	-758.032	948.258	-2.722	-1.786	1.879
5512	1	3.696	0.029	-91.893	-323.596	-127.832	-0.056	-0.156	0.241
5513	1	-4.450	1.615	-18.389	-303.169	-142.888	-0.478	-0.699	0.326
5514	1	-5.576	14.711	-248.896	-320.681	-27.012	-0.619	-0.886	0.753
5515	1	14.205	0.126	217.922	-263.502	-68.569	-0.065	-0.365	0.160
5516	1	2.941	-2.594	-42.164	-175.291	-74.838	0.045	-0.758	0.308
5517	1	-0.877	8.053	47.093	-141.011	-129.273	-0.169	-0.861	0.691
5518	1	0.676	4.296	7.012	-134.378	-53.334	-0.069	-0.493	0.396
5519	1	-1.474	5.251	-63.436	-134.399	-8.476	0.057	0.006	0.086
5520	1	-10.157	1.166	593.789	-0.875	-327.717	-0.825	-1.620	0.755
5521	1	-5.177	6.147	202.102	-18.929	-73.337	-0.344	-0.565	0.419
5522	1	-2.555	2.884	59.055	1.973	-31.187	-0.103	-0.195	0.233
5523	1	-0.490	3.334	18.574	-0.170	-23.055	-0.019	0.274	0.074
5524	1	-9.390	0.410	595.822	39.606	276.159	-0.256	-0.832	-0.052
5525	1	-4.977	-3.002	218.617	37.346	14.113	-0.186	-0.558	-0.015
5526	1	-2.420	0.247	77.961	58.725	-17.653	-0.047	-0.109	0.065
5527	1	-0.859	1.021	13.812	56.977	-10.387	-0.003	0.409	0.040
5528	1	3.491	3.180	-29.090	7.960	17.697	0.021	-0.766	-0.031
5529	1	-0.254	-3.774	110.149	27.210	56.352	0.068	-0.618	-0.044
5530	1	-0.695	-0.968	64.021	31.195	11.833	0.044	-0.192	0.045
5531	1	-1.148	-1.238	-5.180	44.354	1.030	0.047	0.487	0.069
5532	1	4.977	-1.390	-57.719	-9.282	43.320	-0.022	-0.688	-0.073
5533	1	-1.846	3.043	110.386	1.223	25.342	-0.217	-0.705	0.031
5534	1	-4.098	-4.459	-6.413	-22.318	24.673	-0.092	-0.294	-0.046
5535	1	3.913	-1.468	73.847	0.530	39.865	-0.071	0.598	0.126



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### Cont...

Plate	L/C	SQX (N/mm <sup>2</sup> )	SQY (N/mm <sup>2</sup> )	MX (kNm/m)	MY (kNm/m)	MXY (kNm/m)	SX (N/mm <sup>2</sup> )	SY (N/mm <sup>2</sup> )	SXY (N/mm <sup>2</sup> )
5536	1	-18.311	5.622	796.085	73.308	-321.772	-1.229	-1.054	0.720
5537	1	-12.469	4.630	230.139	27.077	13.473	-1.073	-0.181	0.024
5538	1	-12.251	-2.432	-102.625	-27.372	27.267	-1.185	-0.123	-0.312
5539	1	-21.252	-13.571	-682.323	-302.123	-370.483	-1.179	0.269	-0.393
5540	1	7.985	35.876	49.677	-886.113	-233.618	-0.074	0.248	-0.160
5541	1	-0.620	-11.121	-249.652	53.882	126.705	-0.057	-0.133	0.016
5542	1	3.734	0.471	-213.196	-11.684	14.847	-0.189	-0.003	0.097
5543	1	3.063	0.069	-105.097	-13.560	23.717	-0.323	0.058	0.059
5544	1	4.550	-4.081	17.693	45.349	-7.754	-0.447	-0.023	-0.086
5545	1	-9.955	23.805	-13.887	-767.393	346.842	-0.588	-1.727	0.780
5546	1	-0.439	26.734	-1.01E 3	243.276	371.920	-1.146	0.032	0.346
5547	1	7.439	-6.015	-434.079	-134.011	120.308	-1.163	-0.029	0.170
5548	1	2.363	0.485	-218.705	-4.084	11.039	-1.031	-0.016	0.089
5549	1	2.310	-0.045	-103.112	0.480	11.812	-0.898	0.057	0.127
5550	1	0.100	-0.510	-30.475	-79.303	-21.719	-0.773	-0.028	0.272
5551	1	13.875	22.036	168.237	236.429	114.101	-0.632	-1.631	-0.594
5554	1	-3.149	1.146	222.092	-10.520	-17.950	-1.048	0.202	-0.323
5555	1	2.699	-2.422	177.906	-75.625	16.152	-0.904	-0.224	-0.539
5556	1	3.404	3.138	-4.11E 3	-644.231	1.25E 3	-0.075	0.095	0.073
5557	1	2.011	-1.296	-3.49E 3	-2.22E 3	1.93E 3	-0.133	-0.048	0.079
5560	1	5.462	4.151	3.92E 3	89.673	1E 3	-0.397	-0.187	-0.178
5561	1	5.841	-4.001	5.64E 3	769.318	-2.12E 3	-0.318	0.132	0.123
5562	1	0.586	0.490	-369.270	856.101	-506.490	0.007	-0.147	0.015
5563	1	0.051	-0.241	-642.901	59.108	662.560	-0.006	0.093	-0.069
5564	1	-0.217	0.541	-108.508	843.626	96.320	0.012	-0.107	-0.021
5565	1	-0.118	-0.191	-58.763	156.045	62.215	0.010	0.052	-0.033
5580	1	38.585	24.167	-880.318	-257.353	-441.065	-1.915	-0.664	-1.108
5581	1	24.646	-0.903	-31.479	217.276	70.266	-1.622	0.130	-0.244
5582	1	30.324	-15.543	653.070	456.574	4.398	-1.720	0.085	0.286
5583	1	54.565	-26.603	2.22E 3	784.605	-982.769	-1.933	-0.179	0.906
5584	1	-5.006	3.192	78.322	81.523	170.652	-0.055	-0.040	0.091
5585	1	7.608	-0.825	22.943	90.054	180.939	-0.396	-0.513	-0.136
5586	1	7.070	-16.311	267.612	167.321	64.968	-0.326	-0.404	0.051
5587	1	-14.323	-3.463	-208.705	140.965	99.765	-0.070	0.328	-0.165
5588	1	-3.005	4.937	41.821	-39.399	122.593	0.052	-0.171	0.104
5589	1	1.728	-8.440	-48.150	-63.335	204.302	0.038	-0.305	0.038
5590	1	-0.085	-4.343	6.691	-46.664	129.253	0.046	-0.240	-0.157
5591	1	1.571	-8.085	69.385	-33.328	59.328	0.063	0.087	-0.144
5904	1	-3.811	-4.333	4.02E 3	3.45E 3	154.466	-0.065	-0.080	-0.025
5905	1	-2.105	1.382	3.48E 3	1.94E 3	-1.76E 3	-0.087	-0.032	0.047
5906	1	-0.602	-1.856	2.58E 3	2.09E 3	-352.154	0.001	-0.086	0.015
5907	1	-1.113	-0.900	413.038	1.02E 3	-159.080	-0.005	-0.019	-0.004
5908	1	-5.447	-3.964	-3.96E 3	-195.871	-1.02E 3	-0.265	0.062	-0.110
5909	1	-5.921	3.925	-5.73E 3	-1.42E 3	2.45E 3	-0.318	-0.022	0.122
5910	1	-0.641	-0.211	321.650	-1.12E 3	636.379	-0.006	0.057	0.040



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5911	1	-0.094	0.072	600.949	-519.372	-518.126	0.004	-0.017	-0.028
5912	1	0.245	-0.243	116.210	-1.24E 3	44.010	0.008	0.050	0.011
5913	1	0.148	0.004	67.198	-459.757	65.350	0.009	-0.010	0.001
5914	1	0.344	-0.729	3.579	-1.5E 3	104.806	0.000	0.039	0.006
5915	1	0.336	0.390	-4.554	-275.177	156.854	0.000	0.001	0.006
5916	1	0.081	-1.269	-129.490	-2.05E 3	157.212	0.006	0.030	0.007
5917	1	0.190	0.830	75.968	160.393	272.441	-0.001	0.010	0.005
5918	1	-4.610	1.320	-118.564	-2.23E 3	310.752	0.014	0.026	-0.005
5919	1	-4.980	-1.860	-1.37E 3	208.600	-787.454	0.028	0.013	0.017
5920	1	1.583	1.127	-1.65E 3	-1.11E 3	-631.562	-0.156	0.072	-0.029
5921	1	1.969	-1.949	-1.46E 3	-1.58E 3	624.912	-0.240	-0.068	0.147
5922	1	1.161	-0.528	-734.697	-1.31E 3	610.144	-0.074	-0.027	0.100
5923	1	0.457	-0.399	-41.295	-1.64E 3	-69.566	-0.006	0.030	0.017
5924	1	1.350	2.098	-1.23E 3	-1.15E 3	-962.590	-0.027	-0.017	-0.014
5925	1	0.176	0.320	-445.305	-1.97E 3	-623.907	-0.004	0.059	-0.003
5926	1	2.818	-0.421	381.867	169.472	102.925	-0.005	0.007	-0.015
5927	1	4.137	2.734	499.233	-2.6E 3	-842.014	-0.012	0.036	-0.003
5928	1	-22.954	-11.764	790.359	-295.206	189.206	-1.687	-0.372	-0.847
5929	1	-22.083	-5.516	39.118	-316.615	-102.173	-1.621	0.053	-0.053
5930	1	-29.104	14.071	-644.670	-523.673	-19.480	-1.880	0.008	0.572
5931	1	-51.811	21.070	-2.2E 3	-756.662	950.067	-2.675	-1.840	1.868
5932	1	3.653	0.098	-91.413	-323.612	-125.398	-0.054	-0.147	0.246
5933	1	-4.443	1.621	-19.753	-303.256	-139.503	-0.461	-0.689	0.351
5934	1	-5.558	14.692	-249.480	-320.793	-23.100	-0.610	-0.900	0.771
5935	1	14.189	-0.024	217.315	-263.767	-65.712	-0.063	-0.416	0.173
5936	1	2.907	-2.485	-42.037	-176.296	-72.525	0.043	-0.763	0.313
5937	1	-0.872	8.000	46.026	-142.094	-125.524	-0.177	-0.868	0.712
5938	1	0.687	4.287	6.299	-135.415	-49.757	-0.074	-0.501	0.419
5939	1	-1.464	5.108	-63.487	-135.541	-5.961	0.055	-0.019	0.097
5940	1	-10.051	1.234	588.777	-3.559	-322.672	-0.855	-1.652	0.780
5941	1	-5.133	6.110	200.187	-20.669	-69.732	-0.359	-0.568	0.433
5942	1	-2.532	2.881	58.275	0.139	-27.797	-0.110	-0.200	0.246
5943	1	-0.481	3.210	18.400	-1.965	-20.693	-0.020	0.268	0.081
5944	1	-9.338	0.494	591.070	38.528	276.489	-0.260	-0.830	-0.051
5945	1	-4.941	-2.973	216.636	35.615	17.131	-0.190	-0.564	-0.013
5946	1	-2.400	0.257	77.111	56.825	-14.430	-0.046	-0.112	0.072
5947	1	-0.849	0.919	13.663	55.053	-8.193	-0.003	0.413	0.045
5948	1	3.457	3.257	-28.841	6.638	19.733	0.024	-0.763	-0.036
5949	1	-0.260	-3.760	108.929	25.812	59.053	0.077	-0.630	-0.044
5950	1	-0.683	-0.953	63.191	29.735	14.735	0.051	-0.201	0.055
5951	1	-1.142	-1.322	-5.449	42.736	2.967	0.051	0.502	0.079
5952	1	4.973	-1.284	-57.831	-10.827	45.535	-0.024	-0.675	-0.086
5953	1	-1.825	3.011	109.048	-0.214	28.738	-0.222	-0.734	0.032
5954	1	-4.074	-4.459	-7.664	-23.342	27.394	-0.094	-0.316	-0.036
5955	1	3.953	-1.522	73.970	-0.427	41.695	-0.075	0.633	0.144



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5956	1	-18.385	5.724	792.673	70.185	-317.465	-1.329	-1.060	0.755
5957	1	-12.550	4.618	228.016	26.646	16.380	-1.172	-0.194	0.037
5958	1	-12.338	-2.436	-104.669	-27.968	29.318	-1.283	-0.134	-0.324
5959	1	-21.365	-13.635	-685.765	-302.098	-370.352	-1.267	0.296	-0.414
5960	1	8.011	36.021	50.947	-889.466	-233.261	-0.096	0.247	-0.183
5961	1	-0.605	-11.178	-251.033	53.980	128.194	-0.075	-0.141	0.014
5962	1	3.770	0.474	-215.019	-11.712	15.820	-0.210	-0.004	0.100
5963	1	3.099	0.066	-106.964	-13.636	24.716	-0.347	0.058	0.062
5964	1	4.593	-4.111	16.096	45.227	-6.992	-0.475	-0.024	-0.083
5965	1	-9.761	23.655	-11.086	-768.424	346.765	-0.625	-1.695	0.770
5966	1	-0.467	26.852	-1.02E 3	242.873	374.884	-1.231	0.025	0.373
5967	1	7.421	-6.045	-436.286	-134.469	121.844	-1.251	-0.033	0.177
5968	1	2.325	0.488	-220.571	-4.133	12.046	-1.116	-0.017	0.091
5969	1	2.271	-0.049	-105.037	0.422	12.759	-0.980	0.056	0.129
5970	1	0.054	-0.483	-32.771	-79.704	-20.879	-0.852	-0.023	0.273
5971	1	13.678	21.679	161.445	232.118	107.653	-0.702	-1.620	-0.580
5974	1	-3.118	1.091	224.620	-9.899	-16.224	-1.021	0.256	-0.373
5975	1	2.672	-2.377	179.191	-74.219	16.810	-0.939	-0.243	-0.548
5976	1	3.351	3.162	-3.91E 3	-633.261	1.46E 3	-0.064	0.100	0.088
5977	1	1.975	-1.311	-3.44E 3	-2.29E 3	1.97E 3	-0.128	-0.058	0.081
5980	1	5.427	4.135	3.91E 3	97.434	1.01E 3	-0.392	-0.202	-0.176
5981	1	5.798	-3.974	5.61E 3	748.689	-2.1E 3	-0.309	0.134	0.120
5982	1	0.579	0.504	-368.929	854.214	-499.657	0.007	-0.161	0.013
5983	1	0.047	-0.243	-639.927	51.230	664.664	-0.006	0.093	-0.069
5984	1	-0.217	0.558	-107.686	839.829	100.163	0.012	-0.118	-0.023
5985	1	-0.119	-0.197	-58.690	153.178	66.111	0.009	0.051	-0.034
6000	1	38.355	24.123	-872.483	-254.139	-435.432	-1.858	-0.682	-1.085
6001	1	24.521	-0.926	-28.768	217.471	72.522	-1.566	0.112	-0.236
6002	1	30.194	-15.527	653.404	454.934	6.201	-1.661	0.061	0.274
6003	1	54.302	-26.431	2.21E 3	779.406	-979.210	-1.851	-0.137	0.845
6004	1	-4.954	3.256	77.970	82.512	171.266	-0.053	-0.066	0.083
6005	1	7.572	-0.854	24.370	90.739	182.112	-0.384	-0.513	-0.145
6006	1	7.021	-16.260	268.086	167.272	65.560	-0.306	-0.394	0.030
6007	1	-14.296	-3.429	-208.251	140.684	99.856	-0.067	0.327	-0.170
6008	1	-2.972	4.971	41.725	-37.667	123.194	0.050	-0.180	0.096
6009	1	1.716	-8.395	-47.107	-61.664	204.683	0.041	-0.301	0.018
6010	1	-0.102	-4.320	7.234	-45.287	129.700	0.047	-0.241	-0.170
6011	1	1.558	-8.067	69.373	-31.997	59.580	0.061	0.075	-0.147
6320	1	4.089	4.456	-4.72E 3	-3.47E 3	-520.364	-0.116	-0.078	-0.057
6321	1	2.302	-1.471	-3.88E 3	-1.88E 3	1.85E 3	-0.127	-0.008	0.058
6322	1	0.624	1.883	-2.52E 3	-2.16E 3	339.910	0.001	-0.085	0.007
6323	1	1.178	0.979	-395.096	-1.03E 3	79.970	-0.005	-0.008	-0.017
6324	1	5.975	4.386	4.4E 3	136.940	1.14E 3	-0.366	0.090	-0.152
6325	1	6.450	-4.261	6.31E 3	1.43E 3	-2.67E 3	-0.427	-0.011	0.164
6326	1	0.698	0.286	-359.842	1.14E 3	-689.826	-0.007	0.086	0.053



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6327	1	0.099	-0.059	-662.969	468.899	586.576	0.005	-0.007	-0.040
6328	1	-0.263	0.316	-127.964	1.26E 3	-34.654	0.011	0.078	0.013
6329	1	-0.157	0.010	-74.398	428.210	-58.775	0.013	0.001	-0.001
6330	1	-0.362	0.828	-2.640	1.54E 3	-99.861	0.002	0.068	0.005
6331	1	-0.352	-0.401	6.180	253.616	-154.853	0.002	0.012	0.007
6332	1	-0.076	1.389	129.325	2.12E 3	-148.941	0.006	0.058	0.003
6333	1	-0.199	-0.862	-89.839	-185.515	-281.012	0.001	0.022	0.010
6334	1	4.831	-1.343	151.413	2.31E 3	-313.335	-0.014	0.052	-0.009
6335	1	5.253	1.970	1.48E 3	-214.201	838.728	-0.002	0.027	0.021
6336	1	-1.583	-1.111	1.65E 3	1.14E 3	666.841	-0.162	0.062	-0.039
6337	1	-1.968	1.978	1.46E 3	1.6E 3	-614.685	-0.222	-0.037	0.125
6338	1	-1.183	0.549	756.625	1.31E 3	-582.503	-0.058	-0.013	0.079
6339	1	-0.459	0.422	47.250	1.7E 3	85.831	-0.006	0.038	0.008
6340	1	-1.387	-2.182	1.28E 3	1.19E 3	1.03E 3	-0.038	-0.028	-0.031
6341	1	-0.169	-0.301	468.728	2.08E 3	670.900	-0.005	0.053	-0.012
6342	1	-3.027	0.473	-413.600	-214.221	-95.256	0.003	0.015	-0.023
6343	1	-4.387	-2.851	-536.228	2.77E 3	897.807	-0.022	0.010	-0.020
6344	1	25.067	13.421	-832.323	310.514	-183.767	-2.273	-0.388	-1.140
6345	1	24.332	5.971	-20.350	328.942	116.607	-2.159	0.170	-0.090
6346	1	32.150	-15.694	731.011	561.967	19.782	-2.482	0.103	0.730
6347	1	57.226	-22.900	2.45E 3	817.917	-1.06E 3	-3.480	-2.193	2.382
6348	1	-3.749	0.329	100.274	343.445	142.714	-0.068	-0.056	0.315
6349	1	4.927	-1.986	34.893	321.607	161.080	-0.597	-0.798	0.420
6350	1	6.074	-16.291	287.546	341.158	25.560	-0.777	-1.061	0.952
6351	1	-15.868	0.223	-240.092	279.145	72.276	-0.083	-0.395	0.195
6352	1	-2.989	2.794	45.547	182.527	83.958	0.058	-0.825	0.389
6353	1	1.038	-8.690	-40.375	145.798	142.152	-0.207	-1.001	0.880
6354	1	-0.842	-4.669	1.049	139.654	59.700	-0.083	-0.554	0.506
6355	1	1.548	-5.686	72.706	142.045	9.158	0.074	0.072	0.108
6356	1	10.958	-1.403	-617.366	-11.141	348.263	-1.076	-1.922	0.960
6357	1	5.524	-6.500	-205.082	12.862	84.334	-0.460	-0.627	0.536
6358	1	2.691	-3.112	-56.276	-6.019	39.658	-0.140	-0.173	0.294
6359	1	0.453	-3.759	-18.619	-2.206	28.765	-0.026	0.413	0.093
6360	1	9.942	0.110	-618.734	-48.343	-277.950	-0.401	-1.030	-0.135
6361	1	5.276	3.114	-223.681	-46.737	-3.606	-0.278	-0.618	-0.050
6362	1	2.531	-0.242	-77.497	-66.485	28.752	-0.078	-0.069	0.060
6363	1	0.863	-1.421	-13.461	-63.428	17.718	-0.007	0.573	0.040
6364	1	-3.605	-2.878	31.129	-12.679	-10.698	0.023	-0.876	-0.057
6365	1	0.276	3.966	-110.666	-33.172	-47.155	0.071	-0.715	-0.109
6366	1	0.669	1.066	-63.096	-37.477	-0.271	0.051	-0.189	0.012
6367	1	1.182	0.883	7.992	-50.264	8.072	0.057	0.636	0.069
6368	1	-5.129	1.772	61.855	7.491	-39.108	-0.021	-0.730	-0.117
6369	1	2.098	-3.116	-109.530	-4.629	-16.601	-0.234	-0.803	-0.021
6370	1	4.296	4.969	16.662	19.540	-11.742	-0.102	-0.347	-0.091
6371	1	-4.395	0.888	-82.464	-5.961	-32.426	-0.085	0.736	0.143



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6372	1	19.196	-5.803	-833.581	-82.620	343.720	-1.423	-1.092	0.781
6373	1	13.103	-4.825	-232.822	-28.443	-8.077	-1.289	-0.215	0.014
6374	1	13.082	3.069	128.420	30.115	-17.504	-1.448	-0.149	-0.387
6375	1	22.659	13.548	765.715	306.123	410.396	-1.455	0.312	-0.493
6376	1	-8.004	-37.563	-64.418	912.306	228.340	0.067	0.417	-0.098
6377	1	0.495	11.824	271.513	-55.908	-140.208	0.047	-0.171	0.068
6378	1	-4.168	-0.502	232.089	11.796	-20.295	-0.185	-0.006	0.168
6379	1	-3.494	-0.055	114.916	13.632	-29.392	-0.423	0.057	0.132
6380	1	-4.973	4.045	-17.016	-45.043	1.685	-0.641	-0.001	-0.013
6381	1	9.537	-23.541	6.712	768.386	-351.214	-0.856	-1.822	0.842
6382	1	-0.023	-28.032	1.1E 3	-255.753	-411.456	-1.401	0.060	0.428
6383	1	-7.794	6.585	469.379	140.855	-133.128	-1.380	-0.017	0.263
6384	1	-2.410	-0.532	238.237	4.319	-15.918	-1.149	-0.024	0.162
6385	1	-2.360	0.052	112.976	-0.483	-16.774	-0.911	0.057	0.198
6386	1	-0.158	0.498	30.745	79.447	16.775	-0.693	-0.047	0.343
6387	1	-13.937	-22.180	-178.853	-234.659	-121.211	-0.478	-1.500	-0.512
6390	1	3.129	-1.185	-241.886	10.884	20.192	-1.348	0.194	-0.321
6391	1	-2.846	2.599	-213.012	82.196	-23.848	-1.109	-0.263	-0.672
6392	1	-3.628	-3.284	4.6E 3	651.391	-1.1E 3	-0.116	0.102	0.058
6393	1	-2.172	1.400	3.85E 3	2.22E 3	-2.06E 3	-0.171	-0.037	0.095
6396	1	-5.958	-4.574	-4.34E 3	-20.831	-1.12E 3	-0.508	-0.207	-0.226
6397	1	-6.328	4.315	-6.2E 3	-749.443	2.33E 3	-0.414	0.161	0.163
6398	1	-0.638	-0.592	408.339	-862.394	553.215	0.008	-0.161	0.022
6399	1	-0.054	0.232	703.271	5.007	-733.284	-0.007	0.115	-0.085
6400	1	0.234	-0.641	119.323	-856.349	-110.291	0.015	-0.114	-0.024
6401	1	0.126	0.181	65.581	-116.408	-73.050	0.013	0.068	-0.039
6416	1	-42.756	-28.026	926.627	317.169	461.844	-2.489	-0.842	-1.461
6417	1	-27.133	1.324	9.041	-218.523	-88.573	-2.106	0.233	-0.311
6418	1	-33.406	17.230	-740.492	-486.438	-8.899	-2.238	0.158	0.384
6419	1	-60.127	29.053	-2.47E 3	-848.323	1.09E 3	-2.539	-0.275	1.221
6420	1	5.264	-4.610	-83.553	-77.047	-200.769	-0.073	-0.020	0.113
6421	1	-8.471	1.000	-38.550	-88.157	-216.049	-0.528	-0.628	-0.173
6422	1	-7.761	18.008	-306.716	-174.816	-78.139	-0.441	-0.501	0.093
6423	1	15.978	3.706	230.307	-147.060	-113.224	-0.091	0.423	-0.199
6424	1	3.216	-6.241	-47.978	43.088	-147.134	0.066	-0.193	0.136
6425	1	-1.932	9.172	48.660	70.513	-239.189	0.044	-0.376	0.062
6426	1	0.165	4.684	-11.717	52.483	-152.616	0.054	-0.291	-0.187
6427	1	-1.690	9.014	-78.190	37.201	-70.622	0.081	0.134	-0.178
6736	1	-3.535	-4.050	3.62E 3	3.28E 3	101.580	-0.041	-0.082	-0.015
6737	1	-1.928	1.254	3.14E 3	1.87E 3	-1.62E 3	-0.066	-0.043	0.041
6738	1	-0.538	-1.754	2.35E 3	1.99E 3	-359.616	0.008	-0.084	0.023
6739	1	-1.012	-0.843	380.864	979.877	-176.650	-0.004	-0.025	0.003
6740	1	-4.938	-3.590	-3.56E 3	-223.257	-917.524	-0.217	0.016	-0.091
6741	1	-5.381	3.577	-5.15E 3	-1.29E 3	2.19E 3	-0.251	-0.017	0.098
6742	1	-0.575	-0.192	289.203	-1.05E 3	564.525	-0.004	0.015	0.031



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6743	1	-0.081	0.084	542.633	-479.968	-473.980	0.003	-0.015	-0.024
6744	1	0.224	-0.230	104.474	-1.14E 3	32.471	0.007	0.011	0.007
6745	1	0.136	0.026	60.176	-432.002	52.050	0.007	-0.012	-0.001
6746	1	0.309	-0.673	3.448	-1.37E 3	87.298	-0.001	0.005	0.004
6747	1	0.303	0.374	-3.986	-269.806	135.258	-0.001	-0.005	0.003
6748	1	0.073	-1.161	-122.907	-1.86E 3	138.021	0.004	-0.001	0.010
6749	1	0.170	0.767	63.036	118.150	235.575	-0.003	-0.000	-0.003
6750	1	-4.128	1.157	-90.396	-2.02E 3	282.267	0.045	0.002	-0.004
6751	1	-4.462	-1.645	-1.22E 3	158.391	-720.582	0.055	-0.002	0.010
6752	1	1.534	1.052	-1.59E 3	-958.976	-574.854	-0.143	0.083	-0.020
6753	1	1.965	-1.998	-1.42E 3	-1.44E 3	629.266	-0.246	-0.092	0.160
6754	1	1.117	-0.565	-697.820	-1.22E 3	633.400	-0.086	-0.033	0.115
6755	1	0.437	-0.480	-34.396	-1.48E 3	-43.301	-0.006	0.024	0.025
6756	1	1.271	1.898	-1.14E 3	-1.03E 3	-851.778	-0.016	-0.004	0.001
6757	1	0.182	0.215	-411.241	-1.77E 3	-552.604	-0.003	0.063	0.004
6758	1	2.563	-0.406	350.151	132.000	114.872	-0.008	0.001	-0.008
6759	1	3.721	2.420	474.832	-2.33E 3	-744.691	0.000	0.059	0.013
6760	1	-20.655	-10.716	729.562	-273.161	169.368	-1.451	-0.584	-0.777
6761	1	-19.900	-5.089	46.890	-289.045	-103.373	-1.336	-0.018	-0.064
6762	1	-26.165	12.593	-568.650	-475.987	-32.005	-1.508	0.013	0.443
6763	1	-46.379	19.424	-1.96E 3	-679.234	833.111	-2.091	-1.296	1.437
6764	1	3.415	-0.150	-82.836	-294.889	-119.959	-0.047	-0.314	0.170
6765	1	-3.936	1.395	-11.219	-276.100	-135.867	-0.391	-0.650	0.208
6766	1	-4.974	13.066	-217.683	-290.773	-35.043	-0.484	-0.700	0.550
6767	1	12.620	0.502	195.230	-238.996	-68.767	-0.052	-0.222	0.111
6768	1	2.707	-2.658	-37.732	-161.723	-72.698	0.038	-0.745	0.227
6769	1	-0.753	7.260	45.994	-130.661	-124.640	-0.127	-0.754	0.495
6770	1	0.578	3.816	9.524	-124.143	-56.233	-0.053	-0.416	0.268
6771	1	-1.344	4.995	-55.701	-123.186	-13.718	0.044	0.029	0.050
6772	1	-9.098	0.657	541.860	-7.384	-303.243	-0.594	-1.366	0.549
6773	1	-4.651	5.576	186.596	-22.499	-73.030	-0.235	-0.524	0.291
6774	1	-2.311	2.568	56.065	-1.724	-34.567	-0.067	-0.198	0.153
6775	1	-0.468	3.214	17.366	-2.817	-25.247	-0.013	0.202	0.045
6776	1	-8.390	0.427	543.588	28.605	249.077	-0.133	-0.707	0.003
6777	1	-4.471	-2.722	201.396	28.199	8.798	-0.110	-0.511	-0.004
6778	1	-2.192	0.222	73.000	49.372	-20.454	-0.023	-0.135	0.045
6779	1	-0.799	1.074	13.057	48.606	-12.547	-0.002	0.289	0.026
6780	1	3.195	2.849	-25.945	3.734	13.764	0.012	-0.694	-0.012
6781	1	-0.205	-3.374	102.613	21.105	48.060	0.051	-0.530	-0.008
6782	1	-0.653	-0.859	60.408	24.923	7.682	0.027	-0.184	0.041
6783	1	-1.049	-1.014	-3.443	37.494	-0.860	0.033	0.345	0.048
6784	1	4.548	-1.383	-52.209	-9.716	36.079	-0.018	-0.671	-0.025
6785	1	-1.650	2.867	104.073	-0.609	18.383	-0.198	-0.582	0.056
6786	1	-3.776	-3.924	-0.742	-22.815	20.039	-0.091	-0.229	-0.042
6787	1	3.368	-1.357	64.860	-2.743	34.487	-0.048	0.418	0.080



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6788	1	-16.417	4.847	727.940	65.776	-296.454	-0.917	-0.998	0.608
6789	1	-11.119	4.287	214.894	24.485	7.735	-0.748	-0.136	0.008
6790	1	-10.810	-1.996	-82.993	-24.024	23.016	-0.831	-0.089	-0.237
6791	1	-18.859	-12.336	-596.109	-280.923	-331.310	-0.857	0.159	-0.309
6792	1	7.158	32.339	37.669	-813.890	-226.534	-0.273	0.084	-0.245
6793	1	-0.906	-9.959	-221.844	49.507	103.797	-0.198	-0.089	-0.066
6794	1	2.983	0.415	-189.933	-10.909	4.022	-0.198	-0.003	0.001
6795	1	2.348	0.083	-94.691	-13.109	12.278	-0.192	0.058	-0.038
6796	1	3.818	-4.042	15.494	44.278	-19.060	-0.192	-0.055	-0.178
6797	1	-10.072	23.242	-17.099	-743.615	324.657	-0.237	-1.535	0.682
6798	1	-0.385	24.020	-896.708	221.490	320.234	-0.852	0.054	0.238
6799	1	6.989	-5.268	-386.683	-121.757	98.225	-0.927	-0.048	0.059
6800	1	2.416	0.423	-194.726	-3.645	0.828	-0.927	-0.010	-0.008
6801	1	2.364	-0.040	-92.792	0.417	1.428	-0.933	0.054	0.031
6802	1	0.208	-0.501	-32.606	-77.006	-31.401	-0.933	-0.000	0.171
6803	1	13.406	20.932	143.524	226.767	91.421	-0.888	-1.767	-0.689
6806	1	-3.026	1.056	203.090	-11.017	-15.954	-0.821	0.229	-0.309
6807	1	2.472	-2.255	151.842	-73.799	10.621	-0.759	-0.186	-0.456
6808	1	3.106	2.950	-3.52E 3	-641.029	1.38E 3	-0.039	0.088	0.088
6809	1	1.813	-1.185	-3.1E 3	-2.16E 3	1.78E 3	-0.100	-0.062	0.067
6812	1	4.930	3.734	3.51E 3	105.523	891.622	-0.304	-0.165	-0.137
6813	1	5.285	-3.637	5.06E 3	748.547	-1.91E 3	-0.245	0.101	0.092
6814	1	0.532	0.423	-329.054	801.377	-457.936	0.005	-0.132	0.010
6815	1	0.050	-0.231	-576.128	93.397	588.868	-0.004	0.068	-0.055
6816	1	-0.196	0.469	-97.367	791.796	82.184	0.009	-0.098	-0.018
6817	1	-0.107	-0.182	-52.496	170.469	51.882	0.007	0.034	-0.027
6832	1	34.725	21.176	-804.688	-228.953	-410.944	-1.490	-0.547	-0.841
6833	1	22.153	-0.755	-37.624	198.837	51.934	-1.273	0.039	-0.208
6834	1	27.240	-13.845	576.388	414.469	-4.236	-1.341	0.050	0.204
6835	1	49.179	-24.096	1.97E 3	716.574	-883.796	-1.511	-0.138	0.708
6836	1	-4.590	2.361	70.625	72.403	145.618	-0.043	-0.066	0.076
6837	1	6.843	-0.688	15.304	80.607	152.001	-0.299	-0.435	-0.108
6838	1	6.412	-14.662	235.094	151.110	52.132	-0.255	-0.341	0.030
6839	1	-12.771	-3.132	-186.333	128.179	85.990	-0.053	0.246	-0.134
6840	1	-2.743	4.020	36.858	-40.522	103.302	0.042	-0.171	0.083
6841	1	1.564	-7.626	-45.279	-61.259	175.142	0.028	-0.265	0.028
6842	1	-0.028	-3.960	4.440	-45.492	109.425	0.037	-0.208	-0.130
6843	1	1.433	-7.155	61.544	-33.424	49.489	0.049	0.048	-0.117
7152	1	3.856	4.188	-4.39E 3	-3.31E 3	-549.635	-0.106	-0.078	-0.068
7153	1	2.151	-1.332	-3.55E 3	-1.79E 3	1.67E 3	-0.102	0.010	0.040
7154	1	0.584	1.786	-2.29E 3	-2.07E 3	297.984	0.006	-0.079	-0.004
7155	1	1.094	0.959	-362.115	-1.01E 3	63.454	-0.005	-0.005	-0.024
7156	1	5.457	3.944	3.95E 3	187.968	1.01E 3	-0.285	0.132	-0.115
7157	1	5.946	-3.941	5.72E 3	1.44E 3	-2.45E 3	-0.366	-0.040	0.141
7158	1	0.646	0.175	-319.502	1.12E 3	-640.586	-0.009	0.118	0.051





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7159	1	0.098	-0.072	-601.830	523.234	511.534	0.007	-0.027	-0.025
7160	1	-0.243	0.204	-116.503	1.23E 3	-48.579	0.009	0.101	0.019
7161	1	-0.146	0.000	-66.409	456.513	-70.067	0.011	-0.009	0.007
7162	1	-0.343	0.688	-2.646	1.49E 3	-109.366	0.003	0.079	0.012
7163	1	-0.335	-0.384	4.518	266.244	-160.906	0.002	0.013	0.014
7164	1	-0.085	1.229	127.202	2.03E 3	-162.818	0.007	0.058	0.007
7165	1	-0.191	-0.824	-74.854	-174.406	-275.708	-0.000	0.033	0.019
7166	1	4.584	-1.337	112.631	2.22E 3	-307.791	-0.036	0.043	-0.003
7167	1	4.935	1.842	1.34E 3	-233.412	767.334	-0.014	0.048	0.028
7168	1	-1.540	-1.066	1.59E 3	1.02E 3	641.494	-0.161	0.053	-0.043
7169	1	-1.968	1.985	1.42E 3	1.46E 3	-603.406	-0.201	-0.007	0.105
7170	1	-1.157	0.570	728.440	1.21E 3	-577.762	-0.044	-0.003	0.061
7171	1	-0.447	0.452	43.121	1.55E 3	74.607	-0.006	0.049	0.002
7172	1	-1.340	-2.043	1.21E 3	1.11E 3	970.934	-0.043	-0.036	-0.042
7173	1	-0.182	-0.260	432.490	1.91E 3	617.816	-0.004	0.055	-0.014
7174	1	-2.863	0.485	-340.799	-196.698	-95.395	-0.005	0.019	-0.027
7175	1	-4.121	-2.684	-463.258	2.55E 3	833.456	-0.040	0.000	-0.030
7176	1	23.021	11.748	-801.219	293.384	-193.712	-1.782	-0.255	-0.875
7177	1	22.057	5.538	-46.687	316.160	104.118	-1.756	0.072	-0.044
7178	1	29.006	-13.970	635.149	522.949	23.751	-2.080	-0.039	0.644
7179	1	51.587	-21.276	2.18E 3	755.149	-938.222	-3.016	-2.280	2.137
7180	1	-3.736	-0.098	91.323	321.337	126.672	-0.060	-0.064	0.288
7181	1	4.419	-1.566	15.256	301.099	141.280	-0.506	-0.732	0.441
7182	1	5.557	-14.594	244.318	318.686	27.888	-0.692	-1.072	0.914
7183	1	-14.054	-0.226	-216.182	261.918	68.912	-0.070	-0.634	0.218
7184	1	-2.983	2.587	42.158	173.281	74.150	0.043	-0.796	0.371
7185	1	0.867	-8.051	-49.244	139.119	128.787	-0.216	-0.961	0.848
7186	1	-0.644	-4.285	-8.714	132.514	53.173	-0.090	-0.604	0.514
7187	1	1.480	-5.258	62.398	132.174	8.781	0.060	-0.142	0.128
7188	1	10.214	-1.178	-598.607	-1.124	329.463	-0.981	-1.852	0.926
7189	1	5.205	-6.162	-204.519	17.168	72.785	-0.412	-0.618	0.522
7190	1	2.574	-2.877	-60.413	-4.074	30.561	-0.129	-0.254	0.309
7191	1	0.507	-3.315	-18.786	-2.041	22.665	-0.024	0.221	0.105
7192	1	9.430	-0.472	-600.490	-40.793	-279.014	-0.262	-0.807	0.003
7193	1	5.002	3.041	-220.900	-38.853	-15.464	-0.206	-0.615	0.027
7194	1	2.438	-0.243	-79.166	-60.615	16.548	-0.051	-0.141	0.113
7195	1	0.872	-0.975	-14.068	-59.007	9.615	-0.002	0.416	0.062
7196	1	-3.525	-3.242	29.215	-9.166	-18.620	0.026	-0.807	-0.006
7197	1	0.247	3.796	-111.728	-28.489	-57.994	0.097	-0.671	0.014
7198	1	0.713	0.968	-65.239	-32.567	-13.409	0.057	-0.219	0.099
7199	1	1.157	1.305	4.621	-46.038	-2.306	0.053	0.550	0.097
7200	1	-5.013	1.378	57.592	8.225	-44.088	-0.025	-0.772	-0.065
7201	1	1.816	-3.062	-112.317	-2.242	-26.529	-0.235	-0.798	0.087
7202	1	4.086	4.408	3.982	21.088	-27.082	-0.072	-0.306	0.017
7203	1	-3.861	1.578	-73.271	-1.691	-41.445	-0.096	0.729	0.166



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Plate	L/C	SQX (N/mm <sup>2</sup> )	SQY (N/mm <sup>2</sup> )	MX (kNm/m)	MY (kNm/m)	MXY (kNm/m)	SX (N/mm <sup>2</sup> )	SY (N/mm <sup>2</sup> )	SXY (N/mm <sup>2</sup> )
7204	1	18.345	-5.615	-799.771	-73.652	322.719	-1.440	-1.233	0.852
7205	1	12.485	-4.643	-233.219	-27.683	-14.146	-1.240	-0.208	0.047
7206	1	12.240	2.373	98.209	26.644	-29.421	-1.337	-0.131	-0.331
7207	1	21.201	13.662	673.172	300.407	365.077	-1.252	0.425	-0.364
7208	1	-8.151	-35.774	-47.915	879.277	230.028	0.206	0.314	-0.017
7209	1	0.449	11.048	246.469	-53.388	-129.370	0.141	-0.148	0.131
7210	1	-3.869	-0.472	208.823	11.605	-18.289	-0.126	0.002	0.198
7211	1	-3.202	-0.065	100.263	13.114	-27.050	-0.404	0.056	0.158
7212	1	-4.606	3.900	-21.320	-43.595	2.706	-0.654	0.023	0.014
7213	1	9.760	-23.307	16.604	745.216	-345.164	-0.874	-1.894	0.845
7214	1	0.582	-26.662	1E 3	-242.180	-370.956	-1.200	-0.081	0.401
7215	1	-7.291	5.983	429.328	132.847	-122.864	-1.135	0.006	0.253
7216	1	-2.251	-0.482	214.257	4.047	-14.398	-0.868	-0.015	0.186
7217	1	-2.194	0.039	98.237	-0.454	-15.275	-0.591	0.057	0.226
7218	1	-0.066	0.497	23.506	76.328	16.792	-0.340	-0.064	0.370
7219	1	-13.703	-22.008	-182.434	-232.549	-127.202	-0.121	-1.375	-0.461
7222	1	3.147	-1.183	-217.036	10.128	19.121	-1.106	0.159	-0.280
7223	1	-2.699	2.411	-173.537	73.800	-14.979	-0.920	-0.235	-0.563
7224	1	-3.422	-3.083	4.28E 3	665.169	-995.154	-0.106	0.093	0.048
7225	1	-2.027	1.274	3.52E 3	2.12E 3	-1.88E 3	-0.150	-0.025	0.083
7228	1	-5.438	-4.118	-3.89E 3	-87.606	-991.054	-0.445	-0.200	-0.198
7229	1	-5.825	3.986	-5.61E 3	-778.302	2.11E 3	-0.340	0.162	0.135
7230	1	-0.586	-0.468	366.088	-852.859	507.227	0.009	-0.156	0.014
7231	1	-0.052	0.236	640.331	-64.399	-654.573	-0.008	0.117	-0.077
7232	1	0.216	-0.517	108.087	-840.583	-92.162	0.013	-0.109	-0.025
7233	1	0.118	0.185	58.024	-156.269	-58.152	0.010	0.071	-0.038
7248	1	-38.261	-23.765	882.508	250.040	441.809	-2.004	-0.705	-1.168
7249	1	-24.473	0.812	36.375	-218.290	-68.303	-1.689	0.135	-0.226
7250	1	-30.095	15.394	-643.845	-455.303	-4.260	-1.809	0.034	0.324
7251	1	-54.127	26.443	-2.19E 3	-780.251	972.495	-1.998	-0.116	0.884
7252	1	5.021	-3.004	-78.292	-82.968	-167.538	-0.055	-0.062	0.097
7253	1	-7.530	0.787	-20.101	-91.100	-177.182	-0.412	-0.554	-0.137
7254	1	-7.018	16.159	-263.137	-167.415	-64.001	-0.314	-0.420	0.042
7255	1	14.171	3.465	207.030	-141.019	-98.828	-0.073	0.384	-0.187
7256	1	3.003	-4.793	-41.182	38.860	-119.941	0.054	-0.200	0.107
7257	1	-1.706	8.393	48.807	62.471	-200.854	0.046	-0.326	0.033
7258	1	0.071	4.319	-5.665	45.934	-126.982	0.053	-0.245	-0.171
7259	1	-1.567	8.013	-68.463	32.881	-58.304	0.067	0.120	-0.154
7862	1	3.596	3.723	-4.95E 3	-3.78E 3	-2.32E 3	-0.163	-0.126	-0.128
7863	1	1.977	-1.153	-3.49E 3	-1.16E 3	1.24E 3	-0.134	0.036	0.042
7864	1	0.470	1.726	-641.992	-2.4E 3	104.736	0.025	-0.116	-0.020
7865	1	0.906	0.943	-12.872	-1.21E 3	-233.146	-0.003	-0.008	-0.038
7866	1	3.488	2.530	-4.2E 3	-955.400	-1.99E 3	-0.370	-0.045	-0.148
7867	1	2.940	-2.211	-2.55E 3	109.091	759.103	-0.267	0.103	0.108
7868	1	0.316	0.495	81.849	-127.866	256.006	-0.001	-0.039	0.012



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7869	1	0.674	-0.271	-91.814	-616.597	-317.015	-0.020	0.097	-0.052
7870	1	-0.057	0.255	87.207	-25.186	94.727	0.011	-0.015	-0.011
7871	1	-0.044	-0.126	123.753	-653.063	-36.094	0.013	0.073	-0.030
7872	1	-0.122	0.334	37.540	66.733	-32.502	0.007	0.011	-0.023
7873	1	-0.129	-0.300	46.132	-714.417	13.784	0.006	0.047	-0.017
7874	1	0.083	0.331	93.375	225.658	-134.870	0.001	0.036	-0.036
7875	1	0.210	-0.392	-39.796	-878.426	91.586	0.008	0.023	-0.004
7876	1	2.119	-0.808	-1.62E 3	51.902	663.390	-0.041	0.052	-0.020
7877	1	1.870	0.652	-550.123	-745.394	-65.234	-0.077	0.006	-0.020
7878	1	1.074	1.407	-411.920	-1.71E 3	-1.18E 3	0.048	-0.181	-0.112
7879	1	-0.697	1.213	-166.792	-1.27E 3	886.779	0.056	-0.091	0.064
7880	1	1.547	1.342	-229.669	-1.46E 3	-663.323	-0.038	-0.072	-0.059
7881	1	-0.821	1.850	70.506	-109.293	398.311	0.030	0.005	-0.016
7882	1	-0.108	1.329	-330.454	-1.47E 3	-221.610	0.063	-0.199	0.003
7883	1	-0.151	1.030	-662.013	-1.21E 3	125.309	-0.014	-0.080	0.033
7884	1	0.310	1.176	-281.667	-960.980	-189.607	-0.002	-0.045	-0.027
7885	1	0.288	2.127	-174.974	231.034	137.148	-0.014	-0.025	-0.029
7886	1	-0.604	1.604	-454.068	-1.38E 3	250.543	0.023	-0.250	0.069
7887	1	-0.787	0.795	-1.29E 3	-730.490	91.570	-0.034	-0.047	0.037
7888	1	-0.069	0.734	-1.15E 3	-789.422	-603.282	-0.010	-0.013	-0.026
7889	1	0.410	2.376	-121.794	640.995	41.043	-0.004	-0.055	-0.040
7890	1	-3.129	2.751	-1.52E 3	-1.29E 3	865.492	-0.063	-0.293	0.163
7891	1	-1.302	0.090	-1.55E 3	35.464	-53.043	0.062	-0.016	-0.011
7892	1	-0.777	0.000	-2.41E 3	-445.208	-572.690	0.044	-0.003	-0.016
7893	1	0.964	2.549	-3.54E 3	676.853	-1.03E 3	-0.018	-0.064	-0.043
7894	1	37.389	19.082	-1.2E 3	-303.026	-447.688	-3.832	-2.088	-1.995
7895	1	20.833	-12.820	182.108	-310.711	95.834	-2.647	0.142	0.949
7896	1	-8.058	1.748	48.945	-143.250	95.194	-0.006	-1.508	-0.238
7897	1	0.285	3.832	-112.951	-234.858	102.867	-0.206	-0.439	-0.809
7898	1	0.919	4.402	-3.982	-79.287	35.338	0.005	-0.863	-0.457
7899	1	-1.223	0.474	-11.399	-90.602	42.108	0.131	-1.085	-0.588
7900	1	0.881	2.157	23.508	8.593	16.743	-0.053	-0.221	-0.245
7901	1	3.611	2.016	187.439	1.561	107.949	-0.777	-1.727	-0.797
7902	1	1.007	0.387	22.882	48.984	0.996	-0.065	0.011	-0.037
7903	1	3.580	-0.530	188.746	45.936	-97.357	0.038	-0.616	-0.226
7904	1	0.660	-1.796	14.283	42.590	-22.956	0.115	0.129	-0.141
7905	1	-1.060	0.954	-2.048	32.536	-25.435	0.055	-0.735	-0.123
7906	1	-1.541	-0.895	30.210	27.424	-49.641	-0.060	0.314	-0.324
7907	1	-1.440	-0.646	-25.682	0.294	-47.720	0.091	-0.920	0.062
7908	1	14.112	-8.889	-269.450	-62.915	102.116	-1.216	0.236	0.261
7909	1	12.559	6.635	275.168	14.133	80.534	-1.525	-0.842	-0.520
7910	1	-7.413	11.307	101.727	-445.221	34.846	-2.052	-2.784	-1.341
7911	1	0.925	-2.814	-215.223	97.596	15.985	-1.326	-0.180	-0.066
7912	1	0.390	0.420	-191.685	-19.611	5.595	-0.647	0.105	-0.180
7913	1	-0.262	0.640	-204.720	-9.768	5.793	0.046	0.002	-0.224



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7914	1	-0.954	-3.933	-280.066	64.321	-0.248	0.710	-0.115	-0.220
7915	1	8.426	17.240	118.145	-312.658	-45.439	1.350	0.112	-0.176
7916	1	8.646	2.745	-525.187	65.969	262.729	1.296	-2.127	0.829
7917	1	-0.485	1.177	-170.416	-46.861	-21.785	0.569	-0.194	-0.439
7918	1	-0.744	-0.380	-191.228	11.175	6.093	-0.109	0.020	-0.323
7919	1	-0.882	-0.005	-211.066	12.012	7.313	-0.800	0.064	-0.278
7920	1	-0.979	-0.661	-204.042	-55.096	32.469	-1.463	0.040	-0.280
7921	1	-11.130	13.794	-706.200	116.492	-245.249	-2.101	-0.270	-0.323
7922	1	-1.602	-2.819	-239.057	3.62E 3	-408.024	0.063	-0.133	0.018
7923	1	-0.571	0.452	354.531	1.62E 3	-554.615	0.029	-0.097	0.011
7924	1	-0.307	-1.525	1.1E 3	1.85E 3	-232.658	0.025	-0.128	0.030
7925	1	-0.436	-0.448	188.651	1.04E 3	-378.797	-0.000	-0.069	0.028
7926	1	-0.850	-0.848	553.960	752.210	300.849	0.014	0.005	0.007
7927	1	-0.388	0.217	260.042	501.738	-79.552	0.001	-0.050	0.004
7928	1	-0.065	-0.419	-10.116	475.999	-35.877	-0.001	-0.001	0.004
7929	1	-0.127	-0.122	18.662	558.237	30.176	0.001	-0.045	0.006
7930	1	0.015	-0.339	-8.662	352.353	-20.716	-0.001	-0.007	0.005
7931	1	0.014	-0.111	-13.195	496.135	-6.598	-0.001	-0.039	0.006
7932	1	0.032	-0.326	2.326	240.521	0.835	-0.005	-0.013	0.008
7933	1	0.029	-0.033	-4.650	456.181	-8.279	-0.006	-0.032	0.002
7934	1	-0.066	-0.279	11.609	126.829	-11.953	-0.005	-0.019	0.023
7935	1	-0.065	0.010	61.680	452.050	2.652	-0.005	-0.026	-0.013
7936	1	-0.662	0.161	349.185	152.826	-261.152	0.078	-0.028	-0.002
7937	1	-0.738	-0.340	-50.542	342.192	19.845	0.086	-0.017	0.012
7938	1	-1.118	-1.431	107.049	1.69E 3	685.501	0.113	-0.151	-0.057
7939	1	0.664	-1.039	467.424	917.522	-1.07E 3	-0.016	-0.159	0.155
7940	1	-0.945	-1.077	167.213	1.04E 3	256.611	0.027	-0.041	0.005
7941	1	0.385	-0.718	268.876	136.200	-421.464	-0.021	-0.038	0.037
7942	1	-0.006	-1.379	241.408	1.37E 3	-181.010	0.049	-0.216	0.060
7943	1	0.181	-1.067	403.709	823.969	-460.028	0.005	-0.117	0.117
7944	1	-0.077	-0.869	225.310	566.537	-120.227	-0.017	-0.044	0.049
7945	1	-0.126	-0.877	122.139	-86.245	-143.274	-0.008	-0.001	0.018
7946	1	0.527	-1.685	242.193	1.21E 3	-454.854	0.024	-0.288	0.126
7947	1	0.786	-0.948	544.618	425.264	-291.577	-0.067	-0.084	0.126
7948	1	0.228	-0.571	363.266	321.895	70.937	0.008	-0.009	0.043
7949	1	-0.094	-0.920	37.023	-334.373	-80.525	0.002	0.018	0.009
7950	1	3.375	-2.899	168.232	1.08E 3	-430.662	-0.267	-0.380	0.287
7951	1	1.309	-0.130	307.910	-113.197	8.314	-0.003	-0.018	0.020
7952	1	0.656	-0.158	654.566	207.424	167.873	0.055	0.015	0.008
7953	1	-0.139	-0.832	963.530	-446.236	207.048	0.101	0.031	0.041
7954	1	-3.334	-2.473	110.416	83.861	46.435	-0.006	0.048	0.010
7955	1	-0.736	-0.230	10.718	70.012	-6.141	-0.002	-0.045	0.001
7956	1	0.722	-0.835	-2.202	27.324	-3.440	0.003	0.039	0.006
7957	1	-0.300	-1.202	9.165	32.294	-0.824	0.001	-0.035	0.004
7958	1	-0.061	-0.666	3.175	-4.016	0.396	0.000	0.032	0.005



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7959	1	0.049	-0.703	1.999	-4.112	1.492	0.000	-0.029	0.005
7960	1	-0.000	-0.320	0.982	-24.700	0.257	-0.000	0.025	0.005
7961	1	0.003	-0.381	1.114	-24.605	1.497	-0.000	-0.022	0.005
7962	1	-0.012	0.012	1.026	-31.961	0.880	-0.000	0.018	0.005
7963	1	0.006	-0.046	1.126	-31.972	0.946	-0.000	-0.015	0.005
7964	1	-0.030	0.356	2.435	-25.683	0.931	-0.001	0.011	0.006
7965	1	0.031	0.277	1.484	-26.326	0.645	0.001	-0.008	0.005
7966	1	0.220	0.687	1.303	-5.338	0.588	0.008	0.003	0.005
7967	1	-0.371	0.614	5.933	-8.203	-1.152	-0.002	-0.000	0.005
7968	1	-2.135	2.110	66.470	54.141	-49.000	-0.016	0.016	0.003
7969	1	-0.290	-0.141	5.850	-2.603	1.816	-0.000	-0.012	0.007
7970	1	-34.907	-44.335	88.023	537.332	390.719	0.885	-2.208	-0.996
7971	1	1.209	6.740	-274.196	-97.180	-114.694	0.415	-0.188	0.363
7972	1	-2.162	-1.214	-170.654	16.329	-47.799	-0.013	0.025	0.230
7973	1	-1.246	-0.125	-67.168	2.795	-57.804	-0.456	0.064	0.196
7974	1	-1.336	2.094	51.679	-25.806	-42.397	-0.878	0.111	0.105
7975	1	1.273	-8.106	170.606	166.506	-151.441	-1.278	-0.267	0.374
7976	1	37.481	-51.114	-734.183	-270.834	431.527	-2.109	-2.793	1.317
7977	1	2.197	7.977	-236.086	34.374	-96.227	-1.640	-0.179	-0.038
7978	1	6.306	-1.014	-168.951	-5.706	-56.622	-1.211	0.102	0.094
7979	1	6.136	0.229	-68.684	-4.394	-59.688	-0.766	0.018	0.126
7980	1	6.968	-0.363	49.282	24.227	-64.596	-0.341	-0.019	0.216
7981	1	5.097	-4.299	200.161	-51.127	-7.346	0.061	0.013	-0.054
7982	1	-2.895	-1.962	4.8E 3	-563.156	-196.753	-0.165	0.090	0.018
7983	1	-1.788	0.973	3.44E 3	1.61E 3	-1.56E 3	-0.206	-0.026	0.105
7986	1	-3.390	-2.468	4.07E 3	319.656	1.61E 3	-0.311	0.118	-0.122
7987	1	-2.936	2.424	2.48E 3	-201.910	-734.672	-0.432	-0.136	0.183
7988	1	-0.266	-0.507	-143.392	-292.674	-441.516	-0.023	0.099	0.064
7989	1	-0.629	0.557	25.841	411.551	190.163	-0.002	-0.117	-0.003
7990	1	0.048	-0.292	-88.707	-220.614	-238.090	0.013	0.063	0.040
7991	1	0.041	0.438	-124.266	376.255	-116.975	0.011	-0.081	0.020
8014	1	-40.483	-26.664	1.24E 3	350.642	569.917	-2.681	0.147	-0.966
8015	1	-37.391	24.316	-274.705	-333.806	234.133	-3.136	-0.443	1.099
8016	1	5.853	-1.777	-32.730	-42.283	-86.202	-0.076	0.182	0.400
8017	1	-0.864	0.104	104.603	-20.915	-109.063	0.031	-0.477	-0.268
8018	1	-0.377	-3.169	21.518	-54.845	-64.926	0.111	0.100	0.136
8019	1	-0.091	2.198	5.574	-61.205	-72.957	0.101	-0.395	-0.005
8042	1	0.916	1.045	409.549	682.388	2.81E 3	0.071	0.078	0.136
8043	1	0.419	-0.363	-260.135	-1.91E 3	713.457	0.008	-0.096	0.020
8046	1	0.801	0.714	-502.879	-453.878	-169.317	0.016	0.019	0.014
8047	1	0.375	-0.155	-240.336	-518.359	57.929	0.006	-0.047	0.002
8048	1	0.031	0.331	33.109	-278.086	88.381	0.000	0.008	0.008
8049	1	0.095	0.137	6.160	-501.674	-0.162	0.001	-0.037	0.009
8050	1	-0.022	0.276	9.729	-226.317	53.055	-0.000	-0.002	0.008
8051	1	-0.024	0.101	12.555	-394.930	41.213	-0.000	-0.026	0.009



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8074	1	3.430	2.359	-110.919	-86.631	-54.801	0.026	0.019	0.006
8075	1	0.735	0.477	-10.586	-69.442	-0.926	0.005	-0.042	0.005
8076	1	-0.721	0.684	2.165	-25.943	-3.031	-0.003	0.015	0.003
8077	1	0.312	1.486	-9.080	-30.582	-5.967	0.000	-0.037	0.008
8078	1	0.063	0.511	-3.167	8.196	-6.795	-0.001	0.009	0.005
8079	1	-0.050	0.991	-1.980	8.316	-8.117	-0.001	-0.031	0.005
8118	1	-3.377	2.618	158.056	256.115	32.810	0.189	0.160	-0.595
8119	1	0.746	1.436	28.492	161.221	17.468	-0.119	-0.459	-0.151
8120	1	-0.727	-0.113	125.666	102.050	-61.229	0.002	-1.020	-0.235
8121	1	0.175	-1.470	36.335	115.242	26.048	0.006	-0.515	0.050
8122	1	-2.215	0.534	186.858	48.709	-5.033	0.132	-0.975	-0.134
8123	1	-0.159	-0.542	38.472	13.248	7.108	-0.001	-0.663	0.088
8612	1	-2.183	-2.822	1.68E 3	3.77E 3	1.29E 3	0.011	-0.096	-0.042
8613	1	-0.960	0.460	1.13E 3	1.26E 3	-481.800	0.024	-0.010	-0.013
8614	1	-0.268	-1.509	182.396	2.12E 3	-98.383	0.031	-0.082	-0.005
8615	1	-0.497	-0.746	19.121	1.2E 3	-24.157	0.000	-0.031	-0.002
8616	1	-1.365	-1.160	1.22E 3	761.832	594.147	0.016	-0.036	0.003
8617	1	-0.892	0.591	644.877	408.848	-201.291	0.047	0.039	-0.023
8618	1	-0.117	-0.423	-26.448	398.873	-87.532	0.004	-0.028	-0.013
8619	1	-0.231	-0.066	33.339	573.725	68.960	-0.001	0.031	-0.007
8620	1	0.015	-0.312	-21.368	299.457	-48.583	-0.001	-0.017	-0.011
8621	1	0.012	-0.096	-34.348	505.001	-13.579	-0.001	0.020	-0.009
8622	1	0.035	-0.308	-7.196	216.618	-12.151	0.000	-0.004	-0.010
8623	1	0.035	-0.020	-11.900	449.645	-27.920	-0.000	0.007	-0.010
8624	1	-0.044	-0.274	-5.705	126.226	-0.087	-0.002	0.008	-0.011
8625	1	-0.068	0.025	44.172	431.786	-37.596	0.002	-0.005	-0.009
8626	1	-0.608	0.123	521.780	159.572	-292.669	0.008	0.014	-0.010
8627	1	-0.658	-0.292	136.744	320.135	46.019	-0.010	-0.011	-0.010
8628	1	-1.002	-1.468	-255.941	1.68E 3	868.847	0.055	-0.122	-0.065
8629	1	0.893	-1.152	77.890	1.14E 3	-1.13E 3	0.015	-0.089	0.077
8630	1	-0.958	-1.168	-23.751	1.19E 3	378.064	-0.005	-0.041	-0.021
8631	1	0.667	-1.111	106.442	309.618	-480.277	0.001	-0.019	0.011
8632	1	0.168	-1.512	-257.250	1.51E 3	-81.949	0.041	-0.153	0.022
8633	1	0.402	-1.134	111.074	1.04E 3	-516.141	-0.007	-0.071	0.053
8634	1	0.084	-0.967	109.496	685.764	-143.921	-0.010	-0.032	0.007
8635	1	-0.038	-1.175	133.604	9.699	-199.325	-0.009	-0.017	-0.003
8636	1	0.754	-1.955	-290.985	1.48E 3	-496.901	0.012	-0.200	0.071
8637	1	1.087	-0.993	466.386	629.066	-472.049	-0.040	-0.046	0.058
8638	1	0.464	-0.620	381.022	396.203	33.178	-0.005	-0.008	0.005
8639	1	0.002	-1.118	41.053	-323.355	-120.317	-0.002	-0.022	-0.013
8640	1	4.005	-3.480	540.261	1.39E 3	-922.315	-0.118	-0.248	0.162
8641	1	1.687	-0.081	429.694	-72.623	-86.117	0.021	-0.012	0.002
8642	1	1.009	-0.186	769.361	236.476	164.815	0.035	0.004	-0.003
8643	1	0.112	-0.859	1.18E 3	-459.213	265.682	0.026	-0.021	-0.006
8644	1	-8.825	-4.165	238.412	81.456	70.432	0.167	-0.500	-0.010



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8645	1	-4.459	1.532	-136.517	166.476	-4.587	0.309	-0.194	-0.098
8646	1	1.734	-0.056	-23.148	60.228	-16.792	0.003	-0.444	-0.092
8647	1	0.673	-1.993	26.871	94.594	-12.410	-0.023	-0.250	-0.015
8648	1	-0.165	-0.700	0.381	40.646	4.756	-0.026	-0.376	-0.052
8649	1	0.240	-0.760	0.837	44.372	4.844	-0.012	-0.318	-0.055
8650	1	-0.146	-0.163	-5.301	14.130	11.568	0.015	-0.320	-0.018
8651	1	-0.230	-0.707	-34.249	24.574	-3.044	-0.031	-0.374	-0.088
8652	1	-0.161	0.351	-4.579	-2.039	18.047	0.014	-0.254	-0.062
8653	1	-0.502	-0.890	-36.123	-2.072	39.666	0.189	-0.058	-0.204
8654	1	-0.169	0.980	-2.688	-7.657	24.414	0.033	-0.090	-0.139
8655	1	0.178	-0.931	0.539	-6.111	25.259	-0.005	-0.221	-0.126
8656	1	0.313	1.043	-5.261	-1.585	30.068	-0.062	0.082	-0.138
8657	1	0.348	-0.406	5.321	1.521	28.476	0.019	-0.394	-0.128
8658	1	-4.165	3.428	58.593	41.816	-21.014	0.029	0.148	-0.039
8659	1	-3.319	-2.199	-67.308	-4.471	-7.546	-0.228	-0.460	-0.226
8660	1	-6.424	-24.778	-14.632	469.457	55.074	-0.210	-1.950	-0.842
8661	1	-2.414	4.387	112.610	-100.575	-56.763	-0.121	-0.146	0.109
8662	1	-3.131	-0.638	75.929	22.031	-36.473	-0.041	0.061	0.025
8663	1	-2.443	-0.227	67.556	2.304	-39.384	0.043	0.036	-0.022
8664	1	-2.275	1.590	86.038	-34.133	-31.193	0.124	-0.036	-0.017
8665	1	-3.423	-7.270	-12.189	171.758	-49.200	0.201	-0.119	-0.064
8666	1	4.405	-19.009	286.570	-249.574	-85.687	0.467	-1.818	0.777
8667	1	1.090	1.890	84.145	72.471	-34.422	0.375	-0.147	-0.169
8668	1	2.474	-0.169	75.875	-17.376	-36.440	0.293	0.044	-0.086
8669	1	2.450	0.066	69.320	-1.129	-38.963	0.209	0.043	-0.039
8670	1	2.947	0.300	65.847	18.987	-46.982	0.128	-0.014	-0.043
8671	1	4.752	-5.816	208.996	-41.026	30.830	0.050	-0.168	0.003
8672	1	1.943	2.713	-983.064	-3.76E 3	-989.082	0.009	-0.099	-0.032
8673	1	0.774	-0.301	-652.525	-1.28E 3	318.580	0.009	-0.033	0.001
8674	1	0.267	1.498	-244.067	-2.04E 3	45.584	0.030	-0.086	0.011
8675	1	0.436	0.751	-49.710	-1.16E 3	59.449	0.001	-0.040	0.006
8676	1	0.952	0.926	-644.340	-856.616	-352.759	0.003	-0.004	-0.000
8677	1	0.425	-0.200	-281.429	-521.318	72.718	-0.000	-0.010	0.000
8678	1	0.081	0.445	16.015	-535.686	27.099	-0.000	-0.004	-0.000
8679	1	0.152	0.191	-22.069	-586.831	-49.783	0.000	-0.010	0.000
8680	1	-0.006	0.348	8.303	-391.928	12.614	-0.000	-0.004	-0.000
8681	1	-0.005	0.197	16.802	-509.134	-3.472	-0.000	-0.010	0.000
8682	1	-0.026	0.326	-1.810	-268.773	-6.312	-0.002	-0.004	0.002
8683	1	-0.024	0.129	2.103	-444.798	1.313	-0.002	-0.010	-0.001
8684	1	0.050	0.283	-17.313	-147.502	7.145	-0.002	-0.003	0.008
8685	1	0.043	0.082	-53.478	-412.541	-12.794	-0.001	-0.010	-0.008
8686	1	0.464	-0.060	-254.790	-133.644	202.198	0.038	-0.007	-0.005
8687	1	0.603	0.334	38.487	-306.833	-32.863	0.037	-0.007	0.005
8688	1	1.047	1.485	239.573	-1.68E 3	-839.402	0.074	-0.114	-0.051
8689	1	-0.921	1.184	-72.542	-1.04E 3	1.07E 3	0.005	-0.102	0.096



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8690	1	0.904	1.190	-11.725	-1.11E 3	-386.902	0.010	-0.034	-0.006
8691	1	-0.681	1.041	-105.643	-340.866	440.346	-0.006	-0.021	0.018
8692	1	-0.143	1.547	291.362	-1.46E 3	97.593	0.039	-0.155	0.034
8693	1	-0.420	1.205	-61.202	-920.608	482.922	-0.000	-0.077	0.071
8694	1	-0.144	0.989	-74.388	-595.079	112.788	-0.009	-0.031	0.023
8695	1	-0.006	1.066	-127.234	-86.898	156.109	-0.007	-0.006	0.005
8696	1	-0.767	2.004	340.557	-1.39E 3	458.586	0.013	-0.207	0.082
8697	1	-1.130	1.085	-238.694	-500.429	393.828	-0.044	-0.053	0.075
8698	1	-0.503	0.657	-200.364	-299.290	-2.783	0.003	-0.006	0.020
8699	1	-0.059	0.959	-22.076	198.517	86.868	0.000	-0.000	-0.001
8700	1	-4.185	3.560	120.142	-1.27E 3	621.101	-0.154	-0.266	0.185
8701	1	-1.739	0.113	-29.546	110.911	35.627	0.011	-0.013	0.008
8702	1	-0.976	0.230	-382.157	-177.226	-103.752	0.039	0.009	0.002
8703	1	-0.136	0.678	-683.686	346.056	-136.217	0.055	0.006	0.016
8704	1	3.401	2.445	-114.272	-85.332	-49.801	-0.006	0.010	0.001
8705	1	0.754	0.276	-11.237	-71.423	4.859	-0.001	-0.002	-0.001
8706	1	-0.744	0.771	2.270	-28.299	1.545	0.001	0.009	0.001
8707	1	0.312	1.283	-9.538	-33.474	-1.017	0.000	-0.001	-0.000
8708	1	0.062	0.608	-3.252	3.301	-2.364	0.000	0.008	0.000
8709	1	-0.050	0.779	-2.024	3.399	-3.447	0.000	-0.000	0.000
8710	1	-0.000	0.262	-0.965	24.351	-2.203	-0.000	0.008	0.000
8711	1	-0.002	0.458	-1.110	24.253	-3.472	-0.000	-0.000	0.000
8712	1	0.013	-0.070	-1.018	31.974	-2.829	-0.000	0.007	0.000
8713	1	-0.008	0.122	-1.096	31.985	-2.923	-0.000	0.000	0.000
8714	1	0.030	-0.413	-2.249	26.070	-2.923	-0.000	0.007	0.001
8715	1	-0.029	-0.201	-1.411	26.693	-2.579	0.000	0.001	0.000
8716	1	-0.185	-0.753	-1.362	5.946	-2.535	0.003	0.006	0.000
8717	1	0.341	-0.529	-5.173	9.076	-0.631	-0.000	0.001	0.000
8718	1	2.035	-2.106	-58.909	-52.483	44.162	-0.003	0.012	-0.002
8719	1	0.262	0.155	-4.729	3.159	-2.574	-0.000	-0.004	0.003
8720	1	29.730	43.482	-67.443	-519.165	-305.967	0.387	-1.886	-0.864
8721	1	-0.229	-6.498	175.926	100.337	101.177	0.185	-0.141	0.232
8722	1	2.726	1.070	111.326	-19.172	48.642	-0.004	0.037	0.122
8723	1	1.811	0.129	38.206	-1.766	56.558	-0.196	0.043	0.093
8724	1	1.847	-1.830	-52.253	25.307	43.361	-0.377	0.047	0.047
8725	1	-0.123	7.301	-129.385	-155.702	130.109	-0.551	-0.117	0.159
8726	1	-30.981	47.715	475.349	372.683	-340.131	-0.907	-2.048	1.000
8727	1	-1.850	-7.399	156.105	-64.582	91.890	-0.707	-0.140	-0.092
8728	1	-5.546	0.990	109.968	12.772	53.798	-0.518	0.059	0.017
8729	1	-5.380	-0.214	39.040	2.345	57.980	-0.326	0.022	0.045
8730	1	-6.160	0.229	-47.854	-21.950	62.483	-0.143	-0.005	0.091
8731	1	-4.932	4.176	-181.303	49.150	8.898	0.031	-0.001	-0.022
8732	1	1.460	0.945	-1.52E 3	776.590	1.26E 3	0.013	0.034	0.038
8733	1	0.808	-0.330	-1.03E 3	-1.51E 3	634.997	0.002	-0.024	0.003
8736	1	1.328	1.061	-1.17E 3	-509.674	-472.368	0.036	0.005	0.013





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8737	1	0.899	-0.585	-609.339	-315.558	134.999	0.015	-0.013	-0.006
8738	1	0.100	0.347	55.475	-209.026	122.254	-0.001	0.005	0.001
8739	1	0.217	0.050	-3.279	-452.457	-61.629	0.003	-0.013	0.006
8740	1	-0.015	0.248	21.937	-158.389	64.315	-0.001	0.001	0.003
8741	1	-0.016	0.069	34.337	-369.287	33.128	-0.001	-0.008	0.004
8764	1	11.324	8.238	-261.547	-142.059	-149.355	0.462	-0.008	0.232
8765	1	11.293	-6.126	176.450	101.469	-142.647	0.398	-0.023	-0.223
8766	1	-0.822	0.538	16.100	16.412	8.501	0.016	0.001	-0.025
8767	1	-0.264	0.994	-21.584	15.445	8.008	0.031	-0.032	0.035
8768	1	0.095	0.660	-4.343	39.429	2.944	-0.011	-0.005	-0.005
8769	1	0.029	0.283	0.509	41.678	2.064	-0.012	-0.027	0.015
8792	1	-1.217	-0.815	818.549	-787.240	-1.62E 3	0.012	0.032	0.040
8793	1	-0.616	0.242	558.705	1.57E 3	-516.332	-0.003	-0.031	0.004
8796	1	-0.902	-0.772	592.151	551.013	224.516	0.001	0.001	0.003
8797	1	-0.411	0.123	261.486	540.564	-44.903	0.001	-0.009	0.000
8798	1	-0.044	-0.340	-39.571	331.123	-74.211	0.000	-0.002	0.002
8799	1	-0.118	-0.218	-3.140	534.180	25.561	0.000	-0.006	0.001
8800	1	0.017	-0.273	-9.728	257.090	-37.868	-0.000	-0.004	0.001
8801	1	0.020	-0.194	-15.852	415.903	-24.236	-0.000	-0.004	0.002
8824	1	-3.477	-2.387	114.671	87.357	55.738	0.007	-0.001	-0.000
8825	1	-0.753	-0.458	11.131	70.793	0.078	0.001	-0.001	0.001
8826	1	0.743	-0.684	-2.242	26.670	2.886	-0.001	-0.000	-0.000
8827	1	-0.321	-1.494	9.471	31.583	5.735	-0.000	-0.002	0.001
8828	1	-0.063	-0.518	3.247	-7.508	6.741	-0.000	-0.000	0.000
8829	1	0.051	-0.993	2.011	-7.625	8.034	-0.000	-0.001	0.000
8872	1	-9.082	11.609	652.792	665.290	-134.820	-0.313	0.053	0.103
8873	1	-1.961	-0.064	68.878	378.615	60.189	-0.088	-0.356	0.078
8874	1	-4.357	-8.115	599.865	356.650	38.382	-0.493	-1.240	-0.976
8875	1	-1.560	-0.495	79.671	364.562	-45.134	-0.015	-0.469	-0.181
8876	1	-0.415	0.485	235.846	7.022	-12.509	0.372	-0.999	-0.418
8877	1	-0.195	-1.747	68.184	-26.634	-41.726	-0.007	-1.051	-0.279
8898	1	3.434	-1.787	-183.547	-270.687	-47.780	0.271	0.193	-0.974
8899	1	-0.548	-1.304	-31.014	-161.964	-19.735	-0.244	-0.679	-0.319
8900	1	0.805	-0.859	-160.127	-113.740	79.691	0.229	-1.054	0.099
8901	1	0.087	1.576	-37.583	-109.887	-28.333	-0.082	-0.651	0.106
8902	1	2.865	-0.626	-256.289	-58.311	16.536	-0.071	-0.962	0.036
8903	1	0.533	0.626	-44.546	-18.392	-9.318	-0.045	-0.567	0.167
9392	1	2.405	3.329	-1.5E 3	-4.77E 3	-1.47E 3	0.041	-0.095	-0.023
9393	1	0.978	-0.455	-1.02E 3	-1.57E 3	491.874	0.046	-0.029	-0.016
9394	1	0.286	1.848	-88.722	-2.65E 3	142.988	0.032	-0.083	0.004
9395	1	0.543	0.873	-13.075	-1.49E 3	81.674	0.001	-0.040	0.008
9396	1	1.296	1.172	-1.08E 3	-795.885	-501.932	0.082	-0.022	0.030
9397	1	0.792	-0.551	-582.680	-543.002	210.800	0.088	0.012	-0.039
9398	1	0.103	0.494	22.054	-466.734	113.220	0.003	-0.017	-0.012
9399	1	0.209	0.047	-26.809	-654.148	-27.100	0.002	0.007	0.004



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### Cont...

Plate	L/C	SQX (N/mm <sup>2</sup> )	SQY (N/mm <sup>2</sup> )	MX (kNm/m)	MY (kNm/m)	MXY (kNm/m)	SX (N/mm <sup>2</sup> )	SY (N/mm <sup>2</sup> )	SXY (N/mm <sup>2</sup> )
9400	1	-0.010	0.389	19.309	-378.374	78.347	-0.003	-0.012	-0.007
9401	1	-0.008	0.072	30.356	-554.448	47.716	-0.003	0.001	-0.002
9402	1	-0.022	0.373	4.763	-310.167	48.145	-0.001	-0.007	-0.004
9403	1	-0.020	0.009	10.903	-464.540	63.465	-0.002	-0.004	-0.005
9404	1	0.042	0.328	-4.168	-244.483	46.828	-0.002	-0.001	-0.000
9405	1	0.059	-0.026	-52.620	-402.053	68.673	-0.000	-0.009	-0.008
9406	1	0.394	0.028	-474.243	-280.306	313.245	0.022	0.000	-0.005
9407	1	0.483	0.194	-129.271	-268.004	-46.139	0.014	-0.011	-0.003
9408	1	1.230	1.863	512.282	-2.13E 3	-1.03E 3	0.065	-0.119	-0.058
9409	1	-1.166	1.423	-72.074	-1.43E 3	1.51E 3	0.003	-0.099	0.092
9410	1	1.069	1.419	111.789	-1.46E 3	-390.840	0.006	-0.035	-0.009
9411	1	-0.788	1.223	-178.777	-407.040	633.666	-0.008	-0.023	0.019
9412	1	-0.242	1.951	474.210	-1.95E 3	181.314	0.037	-0.158	0.032
9413	1	-0.580	1.438	-9.338	-1.31E 3	768.634	-0.006	-0.077	0.066
9414	1	-0.199	1.155	-96.400	-819.500	283.201	-0.013	-0.032	0.020
9415	1	-0.004	1.265	-154.729	-25.432	281.966	-0.008	-0.009	0.005
9416	1	-1.009	2.563	550.565	-1.93E 3	708.737	0.007	-0.210	0.081
9417	1	-1.469	1.283	-438.875	-806.685	717.245	-0.049	-0.052	0.071
9418	1	-0.703	0.735	-330.691	-428.586	95.327	-0.005	-0.008	0.015
9419	1	-0.103	1.126	-32.415	391.179	188.882	-0.001	-0.006	-0.004
9420	1	-5.314	4.609	-592.316	-1.82E 3	1.26E 3	-0.152	-0.266	0.180
9421	1	-2.264	0.088	-359.768	95.060	155.917	0.008	-0.013	0.006
9422	1	-1.388	0.269	-672.246	-268.353	-126.347	0.031	0.007	-0.000
9423	1	-0.471	0.670	-1.06E 3	581.506	-178.417	0.037	-0.003	0.006
9424	1	7.631	3.231	-226.880	-62.350	-66.255	0.841	-0.106	0.311
9425	1	3.660	-1.103	106.491	-156.502	11.943	0.674	-0.406	-0.201
9426	1	-1.672	-0.277	19.781	-56.566	10.624	-0.015	-0.159	-0.034
9427	1	-0.540	1.821	-26.252	-89.267	7.741	0.013	-0.353	0.144
9428	1	0.066	0.263	-2.784	-46.753	-8.590	-0.028	-0.225	0.048
9429	1	-0.078	0.692	-0.710	-49.387	-8.065	-0.035	-0.287	0.062
9430	1	-0.005	0.040	2.097	-27.826	-12.495	0.028	-0.308	0.045
9431	1	-0.447	0.327	6.315	-42.077	-12.944	0.106	-0.204	0.066
9432	1	0.005	-0.258	1.100	-12.978	-17.434	0.030	-0.298	-0.046
9433	1	0.039	1.002	9.323	-9.530	-26.939	0.223	-0.015	-0.181
9434	1	0.100	-0.657	-0.387	-2.495	-20.191	0.021	-0.153	-0.122
9435	1	-0.028	0.812	-0.747	-2.194	-21.339	-0.012	-0.160	-0.105
9436	1	-0.343	-0.853	0.849	-4.926	-22.518	-0.053	-0.009	-0.098
9437	1	-0.013	0.420	-5.441	-5.339	-22.291	0.003	-0.304	-0.129
9438	1	3.128	-2.640	-63.477	-42.026	26.575	0.120	0.077	-0.043
9439	1	2.032	1.617	20.068	2.591	-6.358	-0.088	-0.390	-0.184
9440	1	6.616	31.035	26.753	-599.368	-37.174	0.172	-1.960	-0.853
9441	1	3.984	-5.560	-178.972	130.246	76.186	0.094	-0.149	0.179
9442	1	4.806	0.791	-115.031	-29.515	54.264	0.019	0.051	0.084
9443	1	4.043	0.184	-86.352	-0.460	57.288	-0.056	0.043	0.042
9444	1	3.866	-1.293	-83.966	34.550	49.592	-0.126	0.004	0.025



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Plate	L/C	SQX (N/mm <sup>2</sup> )	SQY (N/mm <sup>2</sup> )	MX (kNm/m)	MY (kNm/m)	MXY (kNm/m)	SX (N/mm <sup>2</sup> )	SY (N/mm <sup>2</sup> )	SXY (N/mm <sup>2</sup> )
9445	1	5.217	5.939	28.333	-169.726	57.077	-0.194	-0.131	0.032
9446	1	-3.695	22.442	-457.688	336.706	158.698	-0.139	-1.983	0.904
9447	1	-1.764	-2.028	-136.236	-100.260	48.182	-0.064	-0.148	-0.124
9448	1	-3.255	0.175	-114.761	24.769	53.181	0.010	0.054	-0.029
9449	1	-3.158	-0.084	-88.208	-1.199	56.333	0.085	0.035	0.012
9450	1	-3.647	-0.249	-65.451	-15.640	64.240	0.155	-0.014	0.029
9451	1	-5.658	4.932	-182.690	31.800	-9.401	0.223	-0.088	0.021
9452	1	-2.426	-3.333	1.37E 3	4.79E 3	1.56E 3	-0.003	-0.095	-0.043
9453	1	-0.967	0.314	809.253	1.5E 3	-309.690	0.003	-0.021	0.000
9454	1	-0.332	-1.873	96.976	2.61E 3	13.535	0.031	-0.083	0.006
9455	1	-0.537	-1.011	31.859	1.48E 3	6.105	0.002	-0.035	0.002
9456	1	-1.140	-1.122	757.801	1.09E 3	430.591	-0.000	-0.006	-0.002
9457	1	-0.496	0.219	321.602	656.140	-81.144	-0.001	0.003	-0.001
9458	1	-0.101	-0.548	-17.028	695.987	-22.619	-0.000	-0.004	-0.001
9459	1	-0.185	-0.252	28.791	735.705	64.032	-0.000	0.001	-0.001
9460	1	0.005	-0.432	-9.236	510.072	-8.765	-0.000	-0.002	-0.001
9461	1	0.004	-0.266	-19.895	640.763	9.876	-0.000	-0.000	-0.001
9462	1	0.032	-0.406	3.270	349.644	12.515	-0.001	-0.001	-0.001
9463	1	0.028	-0.189	-0.716	558.820	4.655	-0.001	-0.002	-0.002
9464	1	-0.060	-0.360	27.198	190.242	-8.868	-0.001	0.001	0.002
9465	1	-0.043	-0.132	67.600	514.335	28.296	-0.000	-0.003	-0.004
9466	1	-0.516	0.035	252.620	152.926	-225.931	0.018	-0.001	-0.004
9467	1	-0.729	-0.425	-78.748	386.252	43.044	0.015	-0.002	0.002
9468	1	-1.314	-1.893	-390.521	2.15E 3	1.11E 3	0.067	-0.120	-0.059
9469	1	1.227	-1.534	-21.108	1.33E 3	-1.34E 3	0.010	-0.097	0.089
9470	1	-1.119	-1.533	-15.207	1.41E 3	528.687	0.006	-0.036	-0.010
9471	1	0.929	-1.376	85.817	480.143	-547.968	-0.004	-0.015	0.015
9472	1	0.209	-2.009	-519.997	1.88E 3	-102.404	0.038	-0.158	0.029
9473	1	0.598	-1.573	-20.998	1.17E 3	-609.461	-0.005	-0.075	0.063
9474	1	0.252	-1.282	45.335	744.111	-131.353	-0.009	-0.032	0.018
9475	1	0.049	-1.372	160.475	165.873	-188.660	-0.007	-0.004	0.003
9476	1	1.036	-2.639	-595.259	1.81E 3	-576.335	0.006	-0.209	0.078
9477	1	1.536	-1.430	177.363	629.026	-508.294	-0.048	-0.050	0.067
9478	1	0.719	-0.859	176.395	355.116	-15.032	-0.005	-0.008	0.012
9479	1	0.126	-1.192	19.667	-191.922	-102.410	-0.000	-0.002	-0.004
9480	1	5.582	-4.729	-370.511	1.66E 3	-776.599	-0.147	-0.264	0.176
9481	1	2.337	-0.144	-119.800	-150.330	-43.633	0.007	-0.013	0.004
9482	1	1.319	-0.318	339.052	205.330	105.028	0.026	0.008	-0.002
9483	1	0.252	-0.783	706.178	-386.494	134.829	0.029	-0.001	0.005
9484	1	-3.800	-2.780	126.769	95.881	53.948	-0.005	-0.005	-0.002
9485	1	-0.841	-0.274	12.389	80.346	-6.497	-0.001	0.014	-0.001
9486	1	0.827	-0.911	-2.524	32.002	-3.098	0.000	-0.004	-0.001
9487	1	-0.344	-1.388	10.557	37.741	-0.193	-0.000	0.012	-0.002
9488	1	-0.070	-0.723	3.631	-3.297	1.280	0.000	-0.002	-0.001
9489	1	0.056	-0.820	2.276	-3.406	2.489	0.000	0.010	-0.002



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Plate	L/C	SQX (N/mm <sup>2</sup> )	SQY (N/mm <sup>2</sup> )	MX (kNm/m)	MY (kNm/m)	MXY (kNm/m)	SX (N/mm <sup>2</sup> )	SY (N/mm <sup>2</sup> )	SXY (N/mm <sup>2</sup> )
9490	1	0.000	-0.331	1.107	-26.574	1.112	0.000	0.000	-0.002
9491	1	0.003	-0.456	1.260	-26.466	2.502	0.000	0.008	-0.002
9492	1	-0.014	0.045	1.160	-34.639	1.813	-0.000	0.002	-0.002
9493	1	0.008	-0.076	1.269	-34.656	1.874	-0.000	0.006	-0.002
9494	1	-0.032	0.436	2.706	-27.346	1.880	0.000	0.004	-0.001
9495	1	0.035	0.290	1.640	-28.117	1.513	0.000	0.004	-0.002
9496	1	0.213	0.824	1.733	-3.817	1.167	0.001	0.006	-0.002
9497	1	-0.430	0.658	6.470	-7.732	-0.876	0.001	0.002	-0.001
9498	1	-2.371	2.437	72.425	65.590	-55.741	0.002	0.009	-0.004
9499	1	-0.299	-0.198	6.186	-3.081	2.174	0.000	-0.000	0.001
9500	1	-41.559	-59.500	91.840	674.369	426.698	0.119	-1.986	-0.892
9501	1	0.773	8.742	-262.154	-129.771	-135.659	0.046	-0.147	0.184
9502	1	-3.453	-1.433	-163.219	24.576	-64.569	-0.025	0.049	0.081
9503	1	-2.299	-0.151	-58.387	2.082	-75.470	-0.095	0.038	0.047
9504	1	-2.432	2.340	64.497	-31.964	-57.616	-0.161	0.020	0.018
9505	1	0.428	-9.164	182.371	199.859	-177.211	-0.224	-0.047	0.059
9506	1	43.918	-66.465	-714.071	-525.851	502.863	-0.322	-2.004	0.939
9507	1	2.543	10.494	-231.058	88.018	-128.092	-0.251	-0.147	-0.133
9508	1	7.604	-1.434	-161.246	-17.171	-71.553	-0.181	0.051	-0.030
9509	1	7.296	0.306	-59.798	-2.689	-77.316	-0.110	0.030	0.003
9510	1	8.270	-0.366	61.161	27.060	-82.928	-0.044	0.003	0.032
9511	1	6.249	-5.068	224.615	-58.766	-17.811	0.020	-0.005	-0.010
9512	1	-1.466	-0.882	1.29E 3	-1.15E 3	-1.81E 3	0.044	0.023	0.043
9513	1	-0.793	0.283	883.960	1.84E 3	-632.182	0.037	-0.026	-0.015
9516	1	-1.265	-1.041	1.03E 3	584.263	420.260	0.080	-0.021	0.031
9517	1	-0.802	0.480	547.356	430.459	-118.500	0.086	0.011	-0.037
9518	1	-0.090	-0.378	-49.175	291.500	-115.988	0.003	-0.017	-0.011
9519	1	-0.199	-0.103	-0.676	527.656	49.701	0.003	0.007	0.005
9520	1	0.014	-0.285	-19.798	229.248	-63.532	-0.003	-0.014	-0.005
9521	1	0.015	-0.117	-30.126	424.287	-36.180	-0.003	0.003	-0.001
9544	1	-10.485	-7.637	251.225	136.149	146.556	0.829	-0.121	0.390
9545	1	-10.057	5.523	-144.597	-95.299	125.018	0.948	0.194	-0.438
9546	1	0.819	-0.567	-13.097	-15.618	-6.441	0.046	-0.109	-0.102
9547	1	0.084	-0.967	20.371	-16.056	-6.266	0.023	0.183	0.054
9548	1	-0.092	-0.627	4.415	-39.424	-2.068	-0.029	-0.080	-0.046
9549	1	-0.019	-0.318	-0.000	-41.560	-1.433	-0.027	0.153	-0.002
9572	1	1.477	0.847	-1.16E 3	1.14E 3	1.89E 3	-0.000	0.023	0.022
9573	1	0.758	-0.261	-691.179	-1.88E 3	595.042	-0.005	-0.017	0.000
9576	1	1.070	0.912	-684.660	-667.378	-247.775	-0.004	-0.006	-0.001
9577	1	0.477	-0.125	-293.646	-683.705	45.240	-0.001	0.004	0.000
9578	1	0.050	0.407	50.027	-411.675	91.771	0.000	-0.006	-0.000
9579	1	0.136	0.277	6.553	-663.709	-26.961	-0.000	0.003	-0.001
9580	1	-0.021	0.332	11.270	-325.256	47.375	0.000	-0.005	-0.001
9581	1	-0.024	0.249	18.603	-512.918	32.206	0.000	0.002	-0.001
9604	1	3.907	2.682	-127.333	-98.823	-62.688	-0.001	-0.008	-0.002



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Plate	L/C	SQX (N/mm <sup>2</sup> )	SQY (N/mm <sup>2</sup> )	MX (kNm/m)	MY (kNm/m)	MXY (kNm/m)	SX (N/mm <sup>2</sup> )	SY (N/mm <sup>2</sup> )	SXY (N/mm <sup>2</sup> )
9605	1	0.840	0.538	-12.240	-79.543	-0.816	-0.000	0.014	-0.001
9606	1	-0.826	0.772	2.482	-29.960	-3.517	-0.000	-0.006	-0.002
9607	1	0.358	1.693	-10.462	-35.327	-6.810	-0.000	0.012	-0.002
9608	1	0.071	0.579	-3.624	8.807	-7.816	0.000	-0.004	-0.001
9609	1	-0.057	1.130	-2.256	8.943	-9.307	0.000	0.010	-0.002



SKRIPSI

GEDUNG HOTEL IJEN  
PADJAJARAN SUTES  
HOTEL RESORT AND  
CONVENTION HALL  
MALANG

DIGAMBAR

DAVID SAFIUDIN  
NIM : 1021050

DOSEN PEMBIMBING 1

Ir. Bambang Wedyantadji, MT

DOSEN PEMBIMBING 2

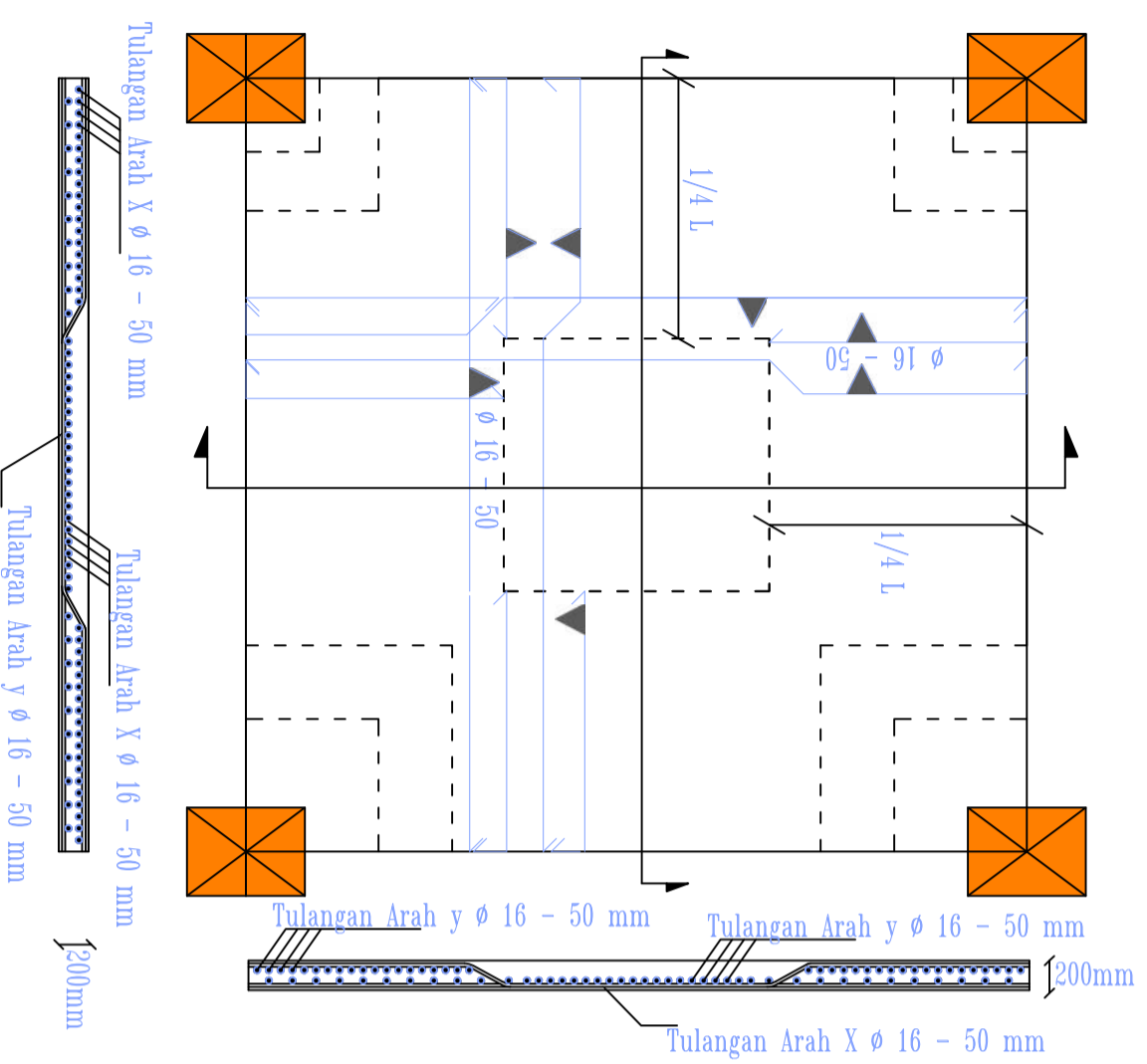
Ir. Ester Priskasari, MT

NAMA GAMBAR SKALA

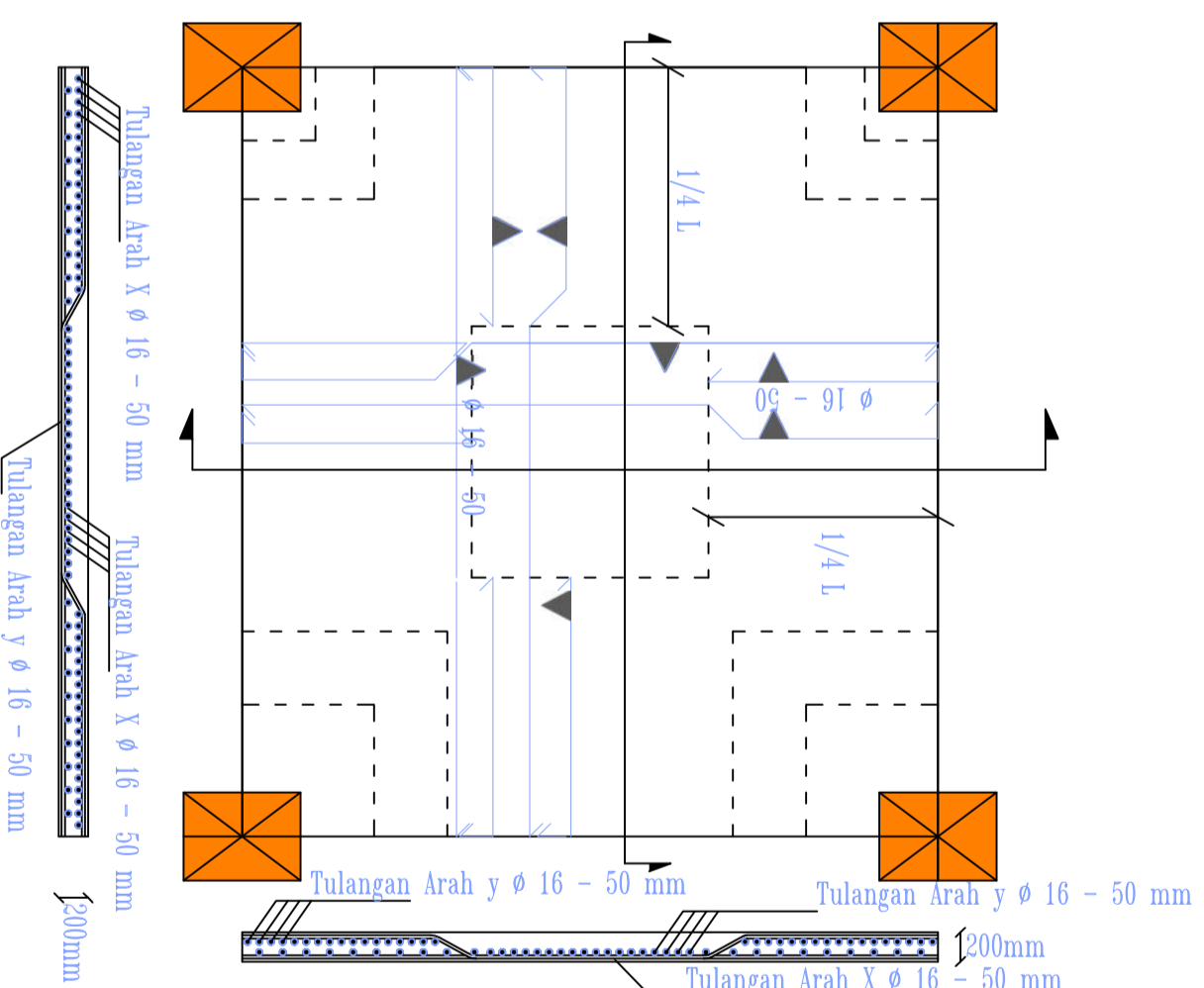
Pelat A 1:50  
Pelat B 1:50

NO LMBR JMLH LMBR

1



Pelat A  
SKALA 1 : 50



Pelat B  
SKALA 1 : 50



SKRIPSI

GEDUNG HOTEL IJEN  
PADJAJARAN SUTES  
HOTEL RESORT AND  
CONVENTION HALL  
MALANG

DIGAMBAR

DAVID SAFIUDIN  
NIM : 1021050

DOSEN PEMBIMBING 1

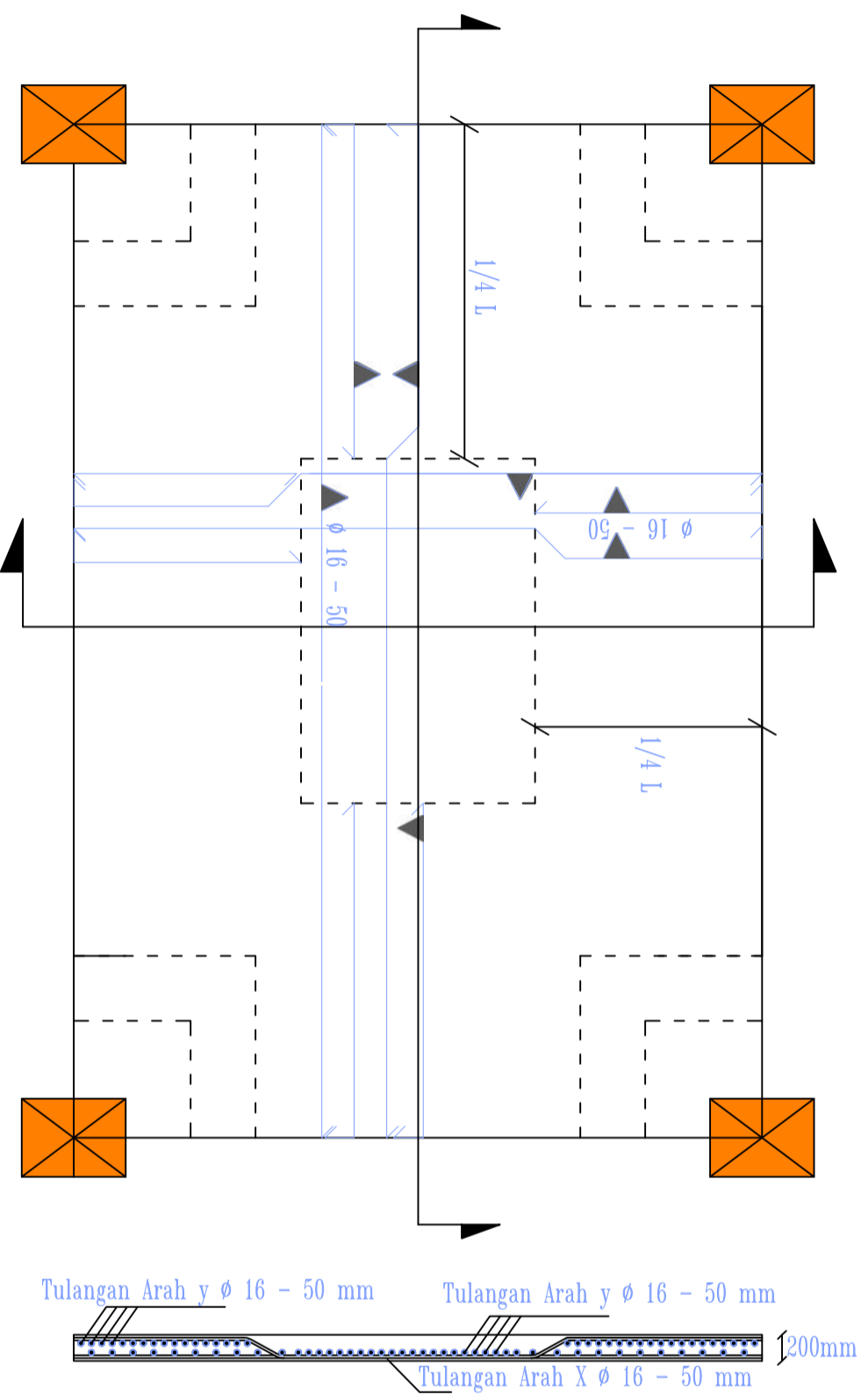
Ir. Bambang Wedyantadji, MT  
DOSEN PEMBIMBING 2

Ir. Ester Priskasari, MT  
NAMA GAMBAR SKALA

Pelat C 1:50

NO LMBR JMLH LMBR

2



Pelat C  
SKALA 1 : 50



SKRIPSI

GEDUNG HOTEL JEN  
PADJAJARAN SUITES  
HOTEL RESORT AND  
CONVENTION HALL  
MALANG

DIGAMBAR

DAVID SAFIUDIN  
NIM : 1021050

DOSEN PEMBIMBING 1

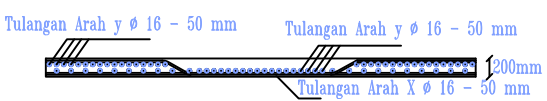
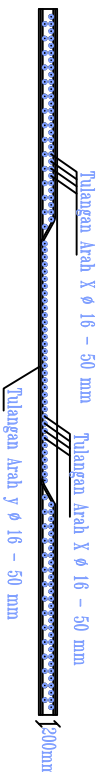
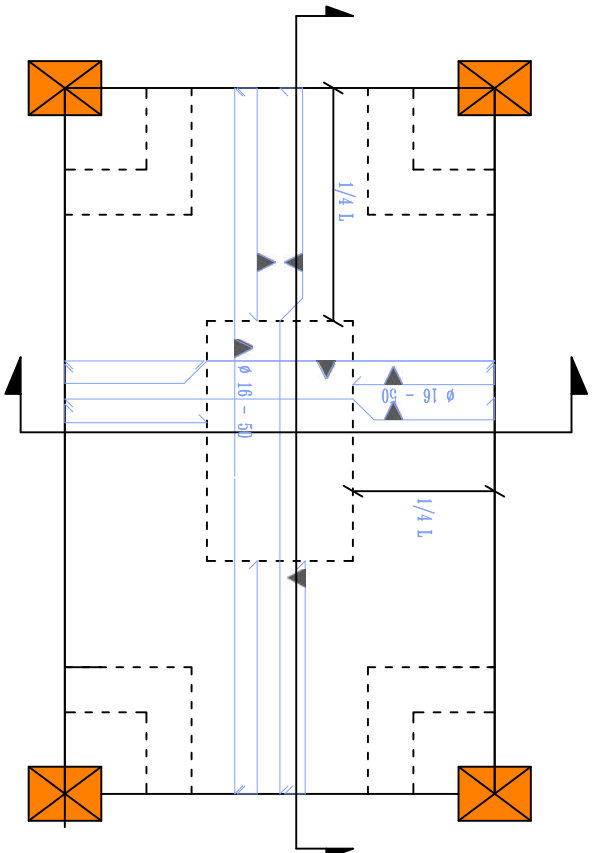
Ir.Bambang Wedyantadji,MT  
DOSEN PEMBIMBING 2

Ir Ester Priskasari,MT  
NAMA GAMBAR SKALA

Pelat D 1:50

NO LMBR JMLH LMBR

3



Pelat D  
SKALA 1 : 50





SKRIPSI

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HOTEL RESORT AND  
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MALANG

DIGAMBAR

DAVID SAFIUDIN  
NIM : 1021050

DOSEN PEMBIMBING 1

Ir. Bambang Wedyantadji, MT  
DOSEN PEMBIMBING 2

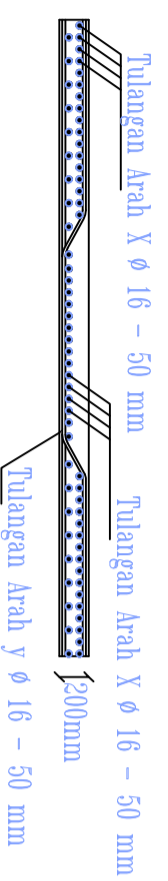
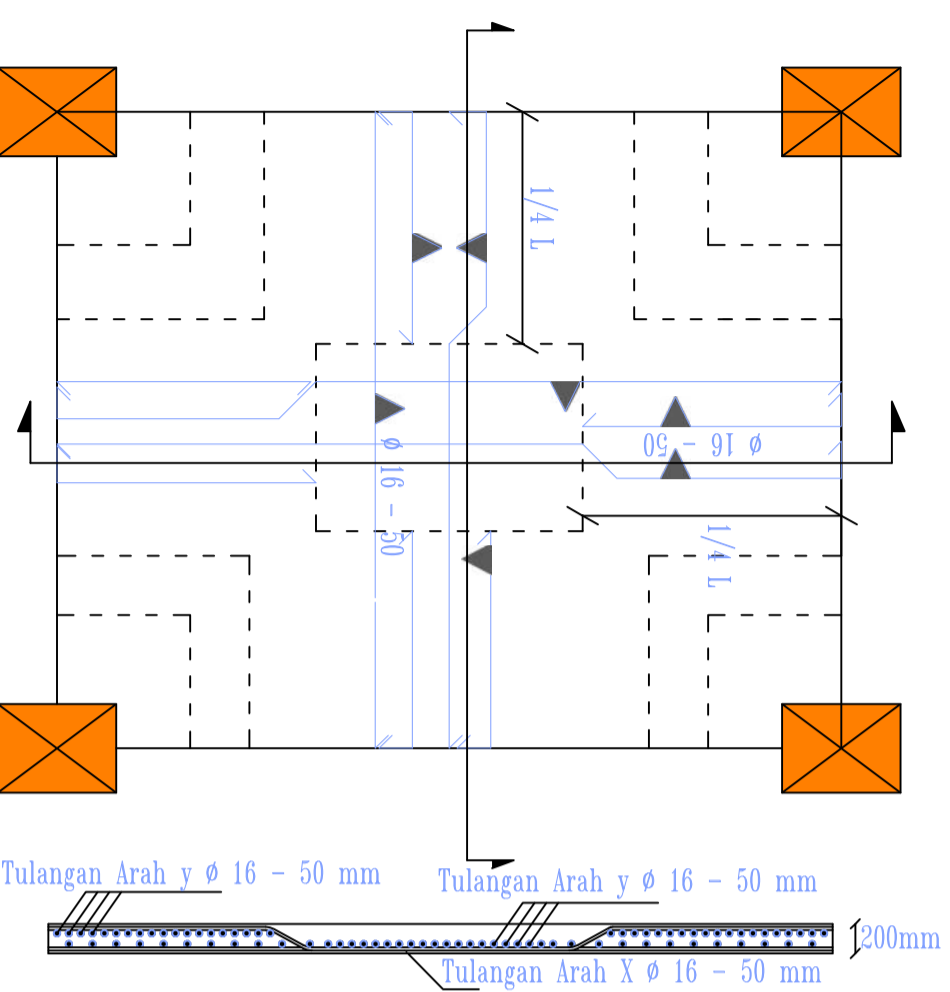
Ir. Ester Priskasari, MT

NAMA GAMBAR SKALA

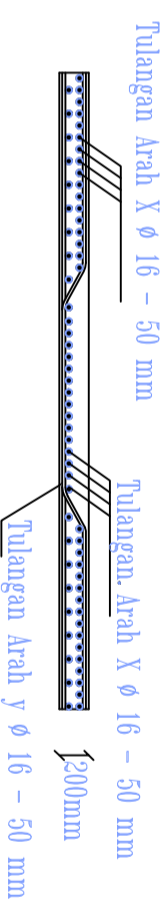
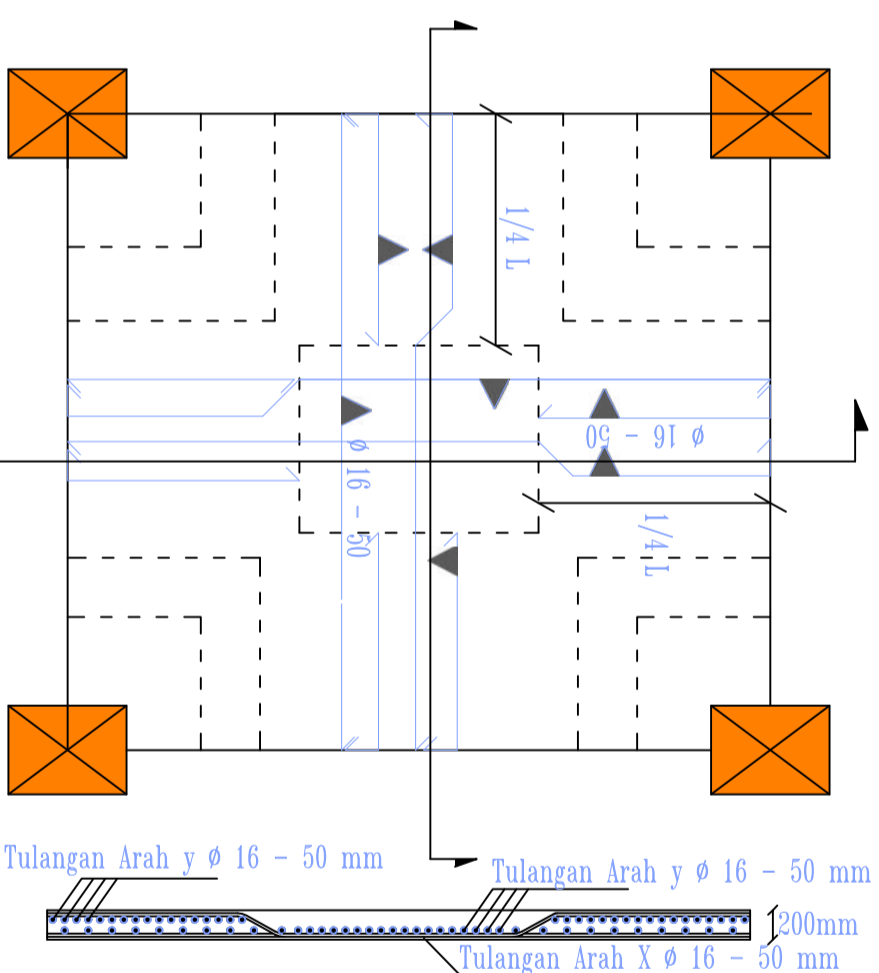
Pelat E 1:50  
Pelat F 1:50

NO LMBR JMLH LMBR

4



Pelat E  
SKALA 1 : 50



Pelat F  
SKALA 1 : 50



SKRIPSI

GEDUNG HOTEL IJEN  
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HOTEL RESORT AND  
CONVENTION HALL  
MALANG

DIGAMBAR

DAVID SAFIUDIN  
NIM : 1021050

DOSEN PEMBIMBING 1

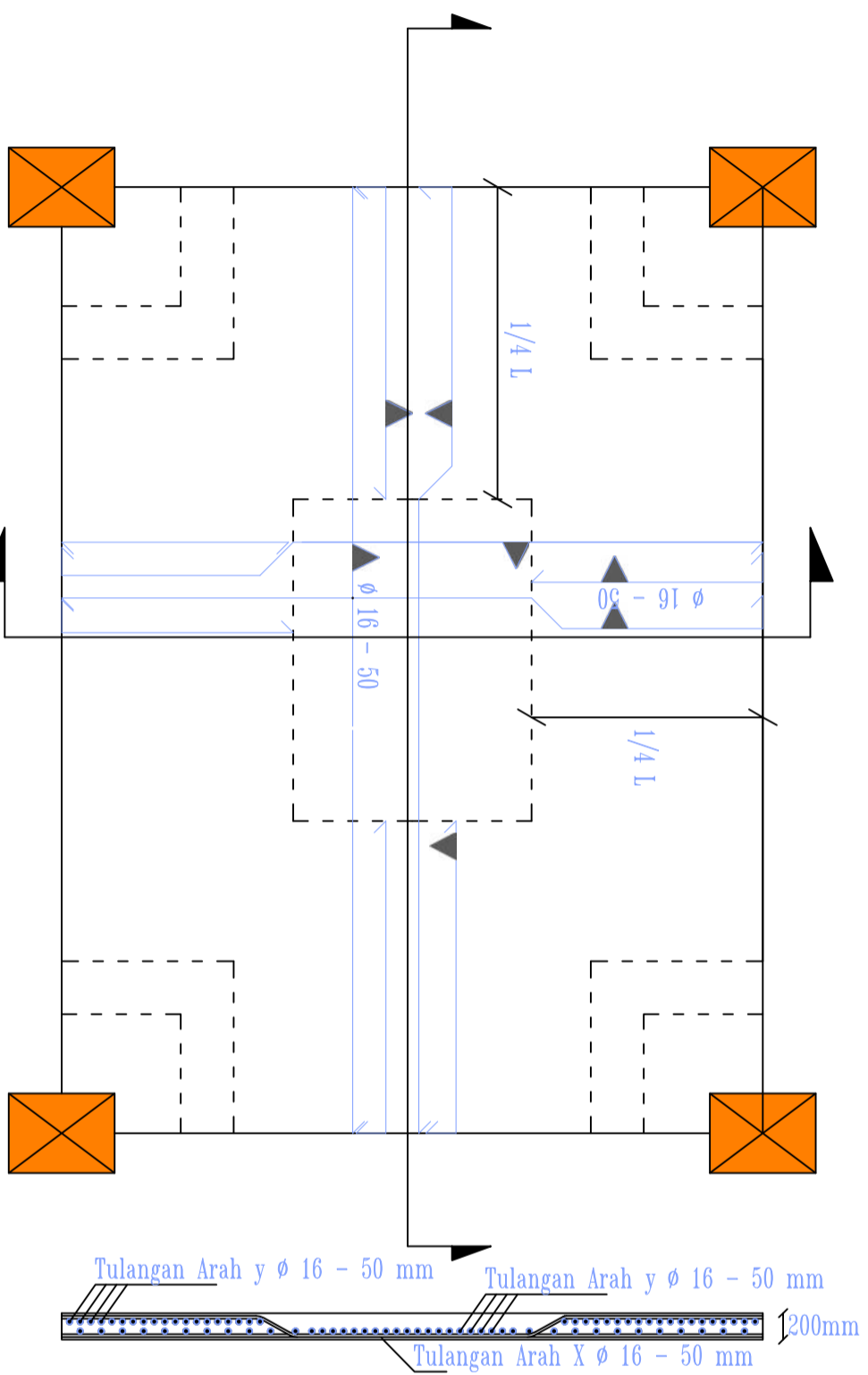
Ir. Bambang Wedyantadji, MT  
DOSEN PEMBIMBING 2

Ir. Ester Priskasari, MT  
NAMA GAMBAR SKALA

Pelat G 1:50

NO LMBR JMLH LMBR

5



Pelat G  
SKALA 1 : 50



SKRIPSI

GEDUNG HOTEL IJEN  
PADJAJARAN SUTES  
HOTEL RESORT AND  
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MALANG

DIGAMBAR

DAVID SAFIUDIN  
NIM : 1021050

DOSEN PEMBIMBING 1

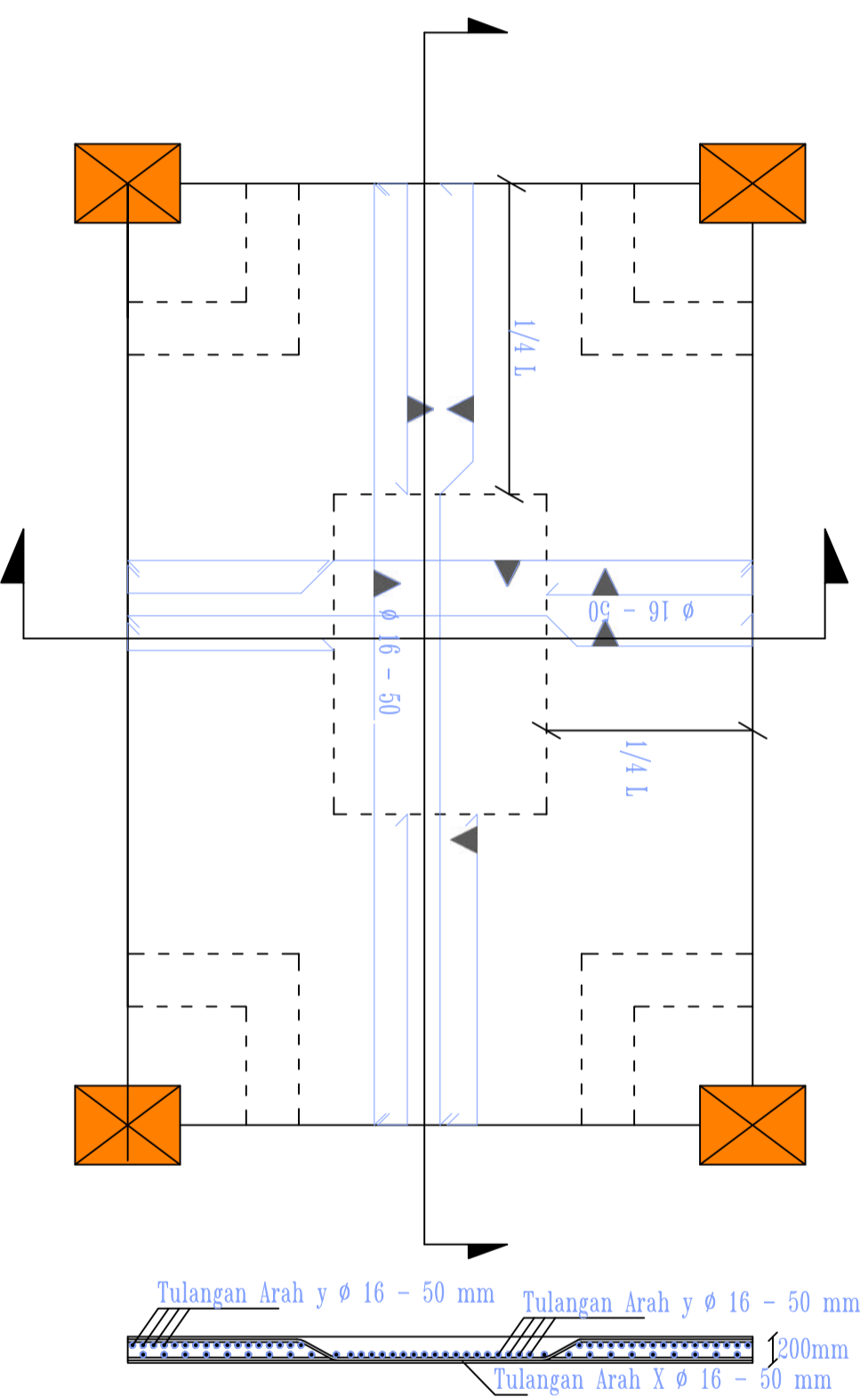
Ir. Bambang Wedyantadji, MT  
DOSEN PEMBIMBING 2

Ir. Ester Priskasari, MT  
NAMA GAMBAR SKALA

Pelat H 1:50

NO LMBR JMLH LMBR

6



Pelat H  
SKALA 1 : 50



SKRIPSI

GEDUNG HOTEL IJEN  
PADJAJARAN SUTES  
HOTEL RESORT AND  
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MALANG

DIGAMBAR

DAVID SAFIUDIN  
NIM : 1021050

DOSEN PEMBIMBING 1

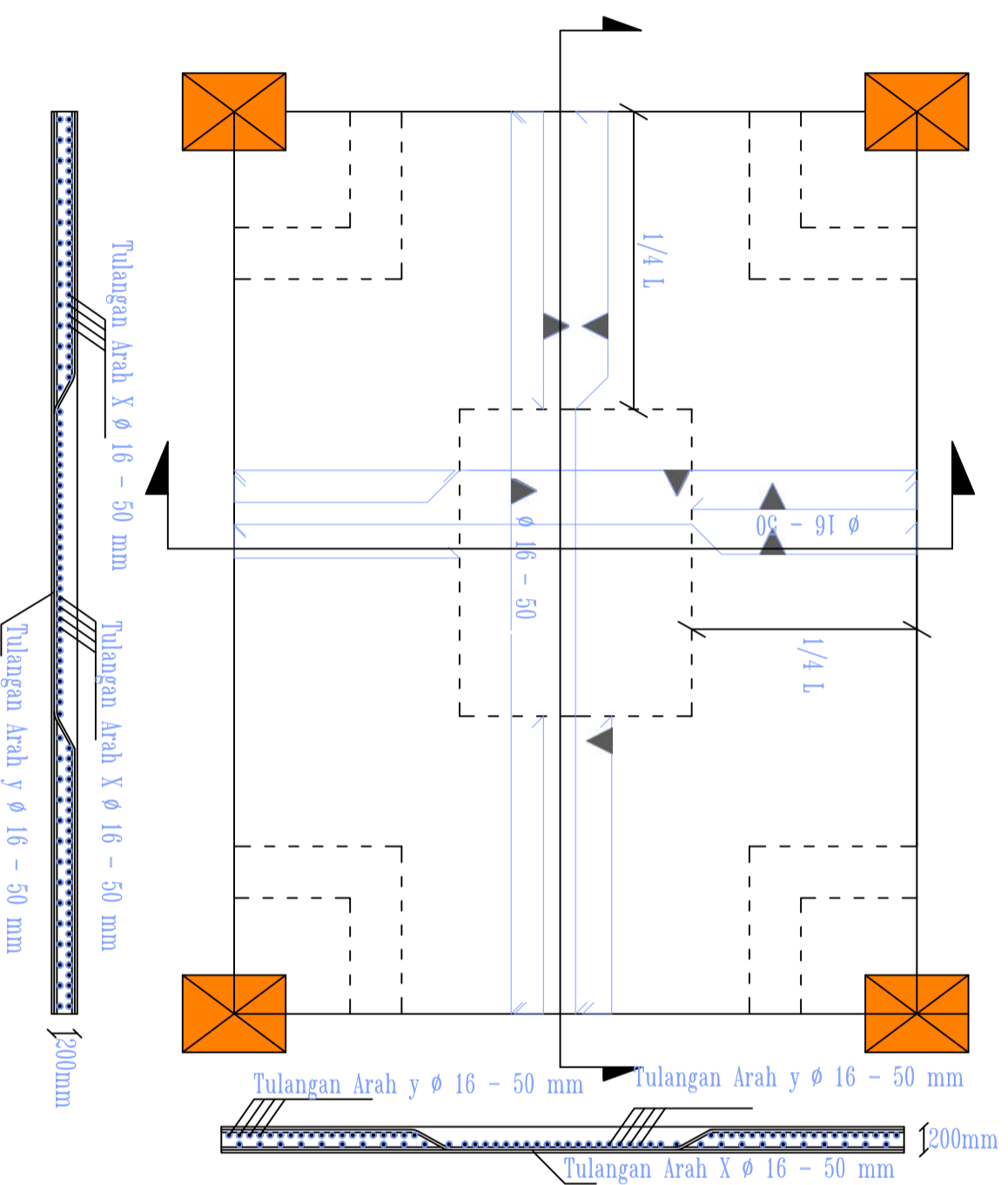
Ir. Bambang Wedyantadji, MT  
DOSEN PEMBIMBING 2

Ir. Ester Priskasari, MT  
NAMA GAMBAR SKALA

Pelat I 1:50

NO LMBR JMLH LMBR

7



Pelat I  
SKALA 1 : 50



SKRIPSI

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HOTEL RESORT AND  
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MALANG

DIGAMBAR

DAVID SAFIUDIN  
NIM : 1021050

DOSEN PEMBIMBING 1

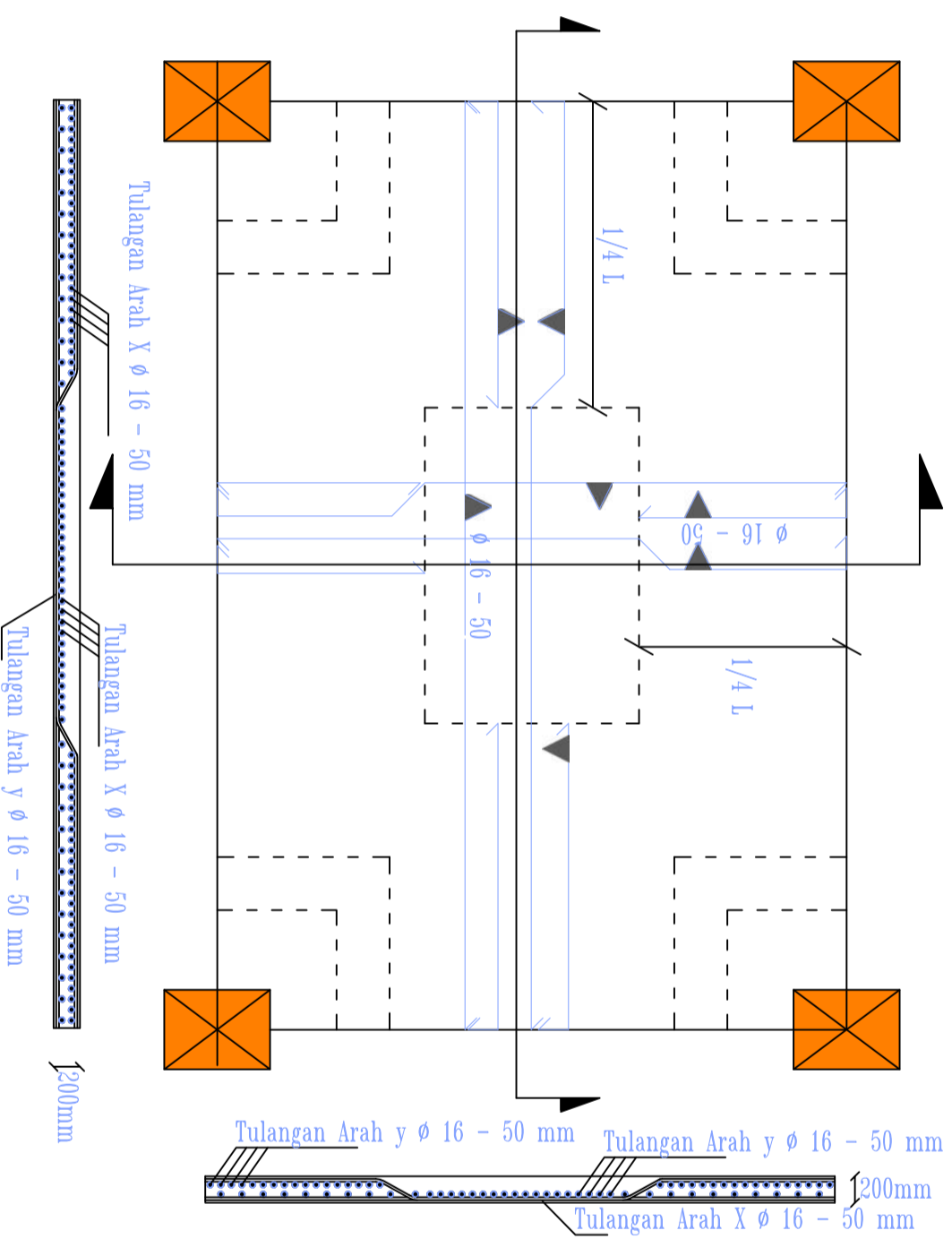
Ir. Bambang Wedyantadji, MT  
DOSEN PEMBIMBING 2

Ir. Ester Priskasari, MT  
NAMA GAMBAR SKALA

Pelat J 1:50

NO LMBR JMLH LMBR

8



Pelat J  
SKALA 1 : 50



SKRIPSI

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HOTEL RESORT AND  
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DIGAMBAR

DAVID SAFIUDIN  
NIM : 1021050

DOSEN PEMBIMBING 1

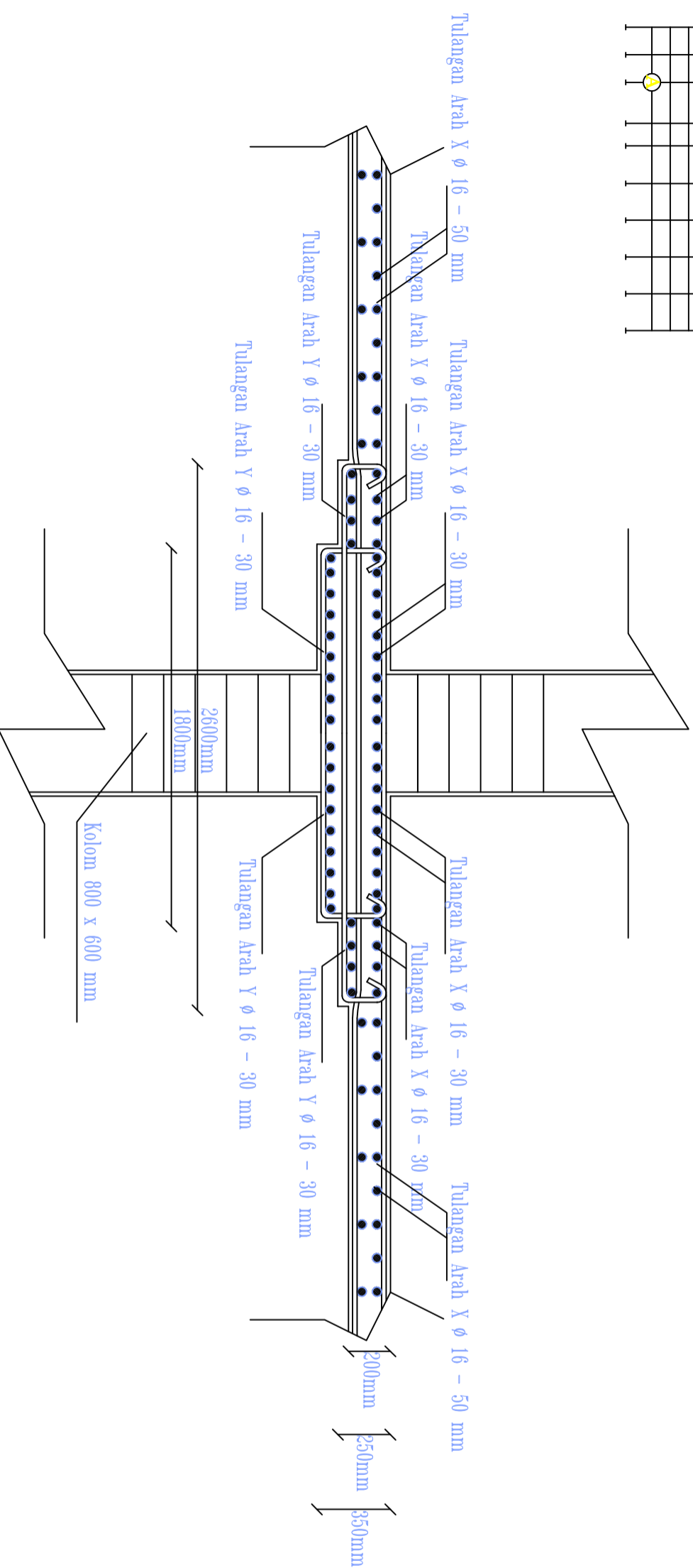
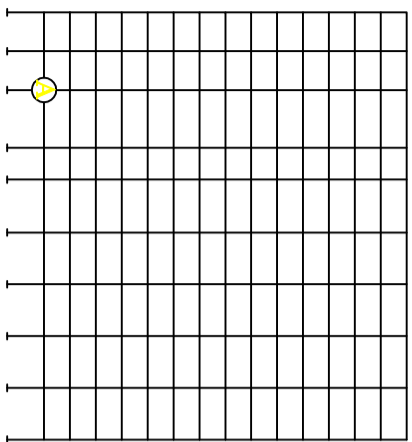
Ir. Bambang Wedyantadji, MT  
DOSEN PEMBIMBING 2

Ir. Ester Priskasari, MT  
NAMA GAMBAR SKALA

Pelat A 1:50

NO LMBR JMLH LMBR

9



Pot A

SKALA 1 : 20