

ΙΔΙΟΚΤΗΤΗΣ

ΔΕΥΑ ΠΑΡΟΥ

ΕΡΓΟ

ΚΑΤΑΣΚΕΥΗ ΣΤΕΓΑΣΤΡΟΥ ΣΤΗ ΜΟΝΑΔΑ
ΑΦΑΛΑΤΩΣΗΣ ΠΕΠΟΝΑ ΠΑΡΟΙΚΙΑΣ

ΘΕΣΗ

ΠΕΠΟΝΑ ΠΑΡΟΙΚΙΑΣ

ΜΕΛΕΤΗ

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ

ΗΜΕΡΟΜΗΝΙΑ

ΜΑΡΤΙΟΣ 2022

ΘΕΜΑ

ΤΕΥΧΟΣ ΣΤΑΤΙΚΩΝ ΥΠΟΛΟΓΙΣΜΩΝ

ΜΕΛΕΤΗΤΗΣ

ΑΡΧΟΝΤΗΣ ΜΑΥΡΑΚΗΣ
ΠΟΛΙΤΙΚΟΣ ΜΗΧΑΝΙΚΟΣ

ΥΠΟΓΡΑΦΗ

ΑΡ. ΜΑΥΡΑΚΗΣ & ΣΥΝΕΡΓΑΤΕΣ
ΣΥΜΒΟΥΛΟΙ ΜΗΧΑΝΙΚΟΙ Ε.Ε.
ΥΠΗΡΕΣΙΕΣ ΕΚΠΟΝΗΣΗΣ ΣΤΑΤΙΚΩΝ ΜΕΛΕΤΩΝ
ΑΡ. ΜΗΤΡΟΥΥ ΤΠΕ 25238
ΚΕΡΑΣΟΥΝΤΟΣ 47, Τ.Κ. 355131 ΚΑΛΑΜΑΡΙΑ
ΘΕΣΣΑΛΟΝΙΚΗ, ΤΗΛ. 2310 412314
ΑΦΜ: 807615531 - ΔΟΥ: ΚΑΛΑΜΑΡΙΑΣ

ΘΕΩΡΗΣΗ

ΠΑΡΑΔΟΧΕΣ ΜΕΛΕΤΗΣ

I. ΥΛΙΚΑ

Οπλισμένο σκυρόδεμα θεμελιώσεων	:	XC2: C25/30, max N/T=0.60
Οπλισμοί : Νευροχάλυβες γενικώς	:	B500c
Δομικός χάλυβας - γενικά δομικά στοιχεία	:	S235 (EN 10025)
Δομικός χάλυβας - λεπτότοιχες διατομές (τεγίδες, μηκίδες)	:	S320GD (EN 10346)
Συγκολλήσεις Ποιότητας	:	E70 (AWS-ASTM)
Αγκύρια Ποιότητας	:	5.6 (DIN ISO 898)
Ποιότητα κοχλιών	:	8.8
Ακτίνα συγκολλήσεων	:	$\alpha \geq 0.7 t_{min}$ εκτός αν αναγράφεται διαφορετικά

II. ΦΟΡΤΙΑ

A. ΜΟΝΙΜΑ (ΙΔΙΑ ΒΑΡΗ)

Οπλισμένο σκυρόδεμα	:	25.00	kN/m ³
Χάλυβας	:	78.50	kN/m ³
Επιστρώσεις οροφής	:	0.15	kN/m ²
Εσωτερικές αναρτήσεις οροφής	:	0.15	kN/m ²
Φ/Β πάνελ οροφής	:	0.15	kN/m ²

B. ΚΙΝΗΤΑ

Άνεμος (EN1991-1-4) (ταχύτητα αναφοράς)	:	33.00	m/sec
Κατηγορία Εδάφους για τον άνεμο	:	II	
Χίονι sk,0 κατά EN1991-1-3	:	0.40	kN/m ²
Στέγες (Κατ. Η κατά EC1)	:	0.50	kN/m ²

III. ΣΤΟΙΧΕΙΑ ΕΔΑΦΟΥΣ

Επιτρεπόμενη Τάση Εδάφους	:	150	kN/m ²
---------------------------	---	-----	-------------------

IV. ΣΕΙΣΜΟΛΟΓΙΚΑ ΣΤΟΙΧΕΙΑ

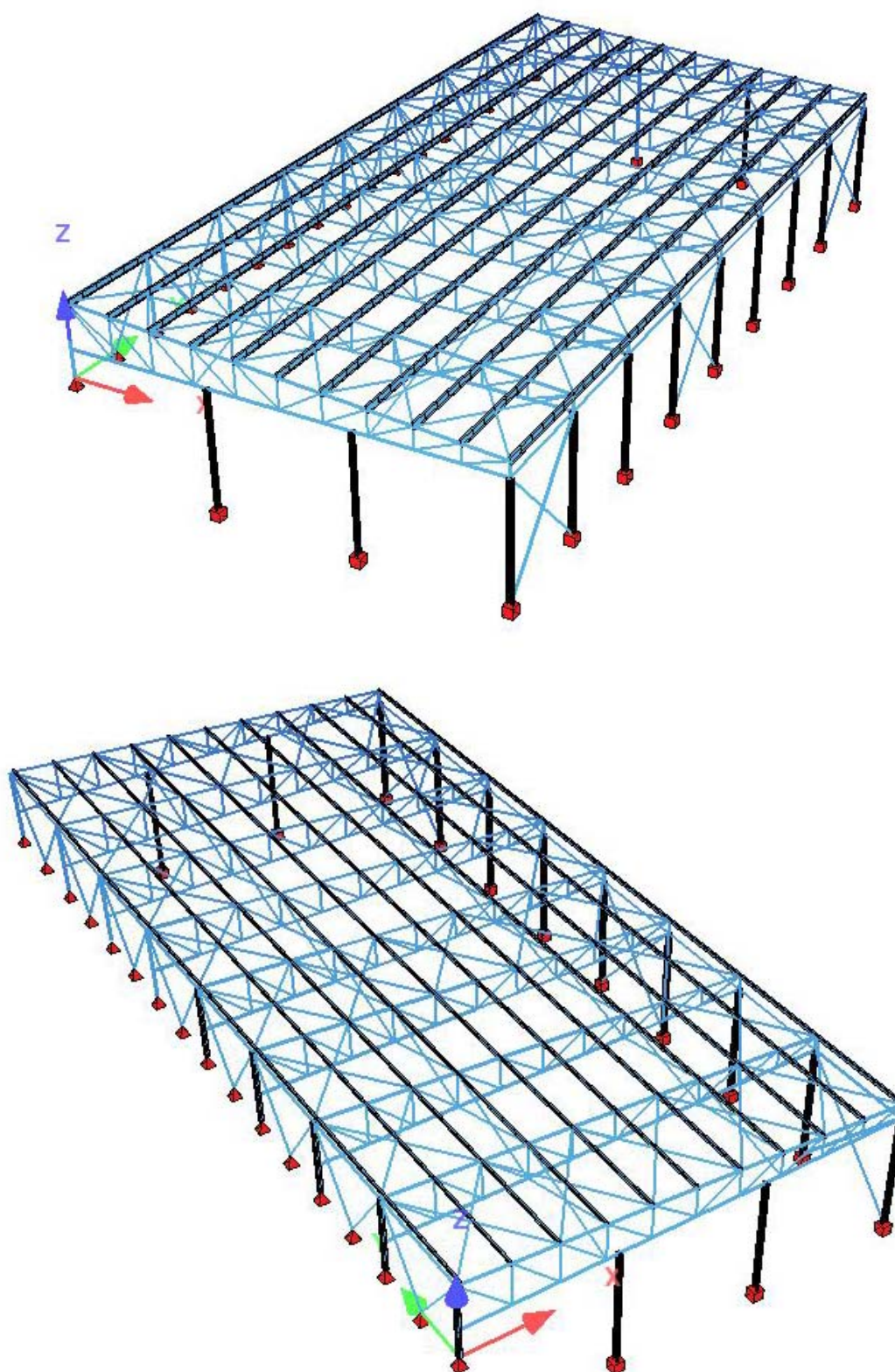
(Σύμφωνα με τον ΕΛΟΤ-EN-1998-1)	
Ζώνη σεισμικής επικινδυνότητας	: I
Ανηγμένη εδαφική επιτάχυνση	: $\alpha_{gR}/g=0.16$
Συντελεστής σπουδαιότητας δομήματος	: $\gamma_I=1.0$ (II)
Κατηγορία εδάφους	: B , S=1.20
Συντελεστής συμπεριφοράς	: $q=1.50$

V. ΠΡΟΤΥΠΑ & ΕΘΝΙΚΑ ΠΡΟΣΑΡΤΗΜΑΤΑ (ΕΛΟΤ)

- EN 1991 - 1: Γενικοί Κανόνες Φορτίσεων για Κτίρια και Εθνικό Προσάρτημα
- EN 1992 - 1: Σχεδιασμός Κατασκευών από Οπλισμένο Σκυρόδεμα
- EN 1993 - 1 - 1: Σχεδιασμός Μεταλλικών Κατασκευών
- EN 1993 - 1 - 8: Έλεγχος Συνδέσεων Μεταλλικών Κατασκευών
- EN 1997 - 1: Σχεδιασμός Θεμελιώσεων
- EN 1998 - 1: Αντισεισμικός Σχεδιασμός Κτιρίων και Εθνικό Προσάρτημα και Εθνικά προσαρτήματα (NA) των παραπάνω κανονισμών
- Κανονισμός Τεχνολογίας Χαλύβων Οπλισμού Σκυροδέματος KTX 2008
- Κανονισμός Τεχνολογίας Σκυροδέματος ΚΤΣ 2016

ΠΡΟΣΟΜΟΙΩΣΗ ΦΕΡΟΝΤΟΣ ΟΡΓΑΝΙΣΜΟΥ ΚΤΙΡΙΟΥ ΣΤΕΓΑΣΗΣ ΤΗΣ

ΜΟΝΑΔΑΣ ΑΦΑΛΑΤΩΣΗΣ



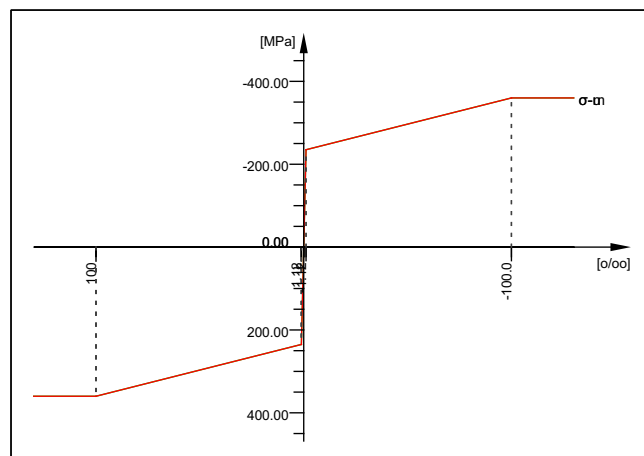
Materials

Mat 1 S 235 (EN 1993)

Young's modulus	E	210000	[N/mm2]	Safetyfactor		1.00	[-]
Poisson's ratio	μ	0.30	[-]	Yield stress	f_y	235.00	[MPa]
Shear modulus	G	80770	[N/mm2]	Compressive yield	f_{yc}	235.00	[MPa]
Compression modulus	K	175000	[N/mm2]	Tensile strength	f_t	360.00	[MPa]
Weight	γ	78.5	[kN/m3]	Compressive strength	f_c	360.00	[MPa]
Density	ρ	7850.00	[kg/m3]	Ultimate strain		100.00	[o/oo]
Elongation coefficient	α	1.20E-05	[1/K]	relative bond coeff.		0.00	[-]
max. thickness	t-max	40.00	[mm]	EN 1992 bond coeff.	k_1	0.00	[-]
				Hardening modulus	E_h	0.00	[MPa]
				Proportional limit	f_p	235.00	[MPa]
				Dynamic allowance	σ_{dyn}	0.00	[MPa]

Stress-Strain for serviceability	ϵ [o/oo]	σ -m[MPa]	E-t[N/mm2]
Is also extended beyond the	1000.000	360.00	0
defined stress range	100.000	360.00	0
	1.119	235.00	1264
	0.000	0.00	210000
	-1.119	-235.00	1264
	-100.000	-360.00	0
	-1000.000	-360.00	0
	Safetyfactor		1.00

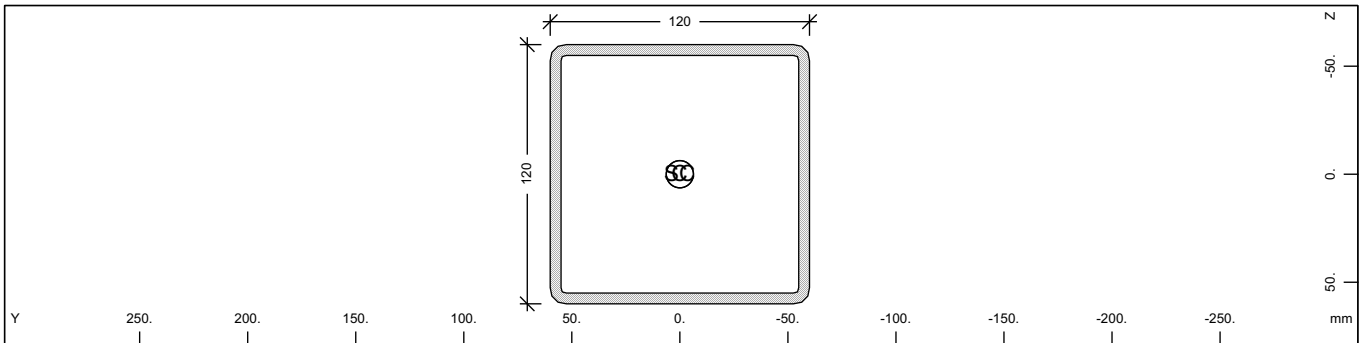
Stress-Strain for ultimate load	ϵ [o/oo]	σ -u[MPa]	E-t[N/mm2]
Is also extended beyond the	1000.000	360.00	0
defined stress range	100.000	360.00	0
	1.119	235.00	1264
	0.000	0.00	210000
	-1.119	-235.00	1264
	-100.000	-360.00	0
	-1000.000	-360.00	0
	Safetyfactor		1.00



S 235 (EN 1993)

Sections

Cross section No. 1 - SH 120 x 120 x 5



Cross section No. 1 - SH 120 x 120 x 5

Static properties of cross section

Mat	A[m2]	Ay[m2]	Iy[m4]	yc[mm]	ysc[mm]	E[N/mm2]	g[kN/m]
MRf	It[m4]	Az[m2]	Iz[m4]	zc[mm]	zsc[mm]	G[N/mm2]	
		Ayz[m2]	Iyz[m4]				
1	2.2571E-03	9.719E-04	4.931E-06	0.0	0.0	210000	0.18
	7.773E-06	9.719E-04	4.931E-06	0.0	0.0	80770	(BEAM)

Mat	material number	E[N/mm2]	Young's modulus
A[m2]	sectional area	g[kN/m]	weight per length
Ay[m2],Az[m2],Ayz[m2]	transverse shear deformation area	MRf	reinforcement material number
Iy[m4],Iz[m4],Iyz[m4]	bending moment of inertia	It[m4]	torsional moment of inertia
yc[mm],zc[mm]	ordinate of elastic centroid	G[N/mm2]	Shear modulus
ysc[mm],zsc[mm]	ordinate of shear centre		

Design values of cross section

Mat	A[m2]	Ay[m2]	Iy[m4]	yc[mm]	E[N/mm2]	g[kN/m]
MRf	It[m4]	Az[m2]	Iz[m4]	zc[mm]	G[N/mm2]	
		Ayz[m2]	Iyz[m4]			
1	2.2571E-03	9.719E-04	4.931E-06	0.0	210000	0.18
	7.773E-06	9.719E-04	4.931E-06	0.0	80770	

Mat	material number
A[m2]	sectional area
Ay[m2],Az[m2],Ayz[m2]	transverse shear deformation area
Iy[m4],Iz[m4],Iyz[m4]	bending moment of inertia
yc[mm],zc[mm]	ordinate of elastic centroid
E[N/mm2]	Young's modulus
g[kN/m]	weight per length
MRf	reinforcement material number
It[m4]	torsional moment of inertia
G[N/mm2]	Shear modulus

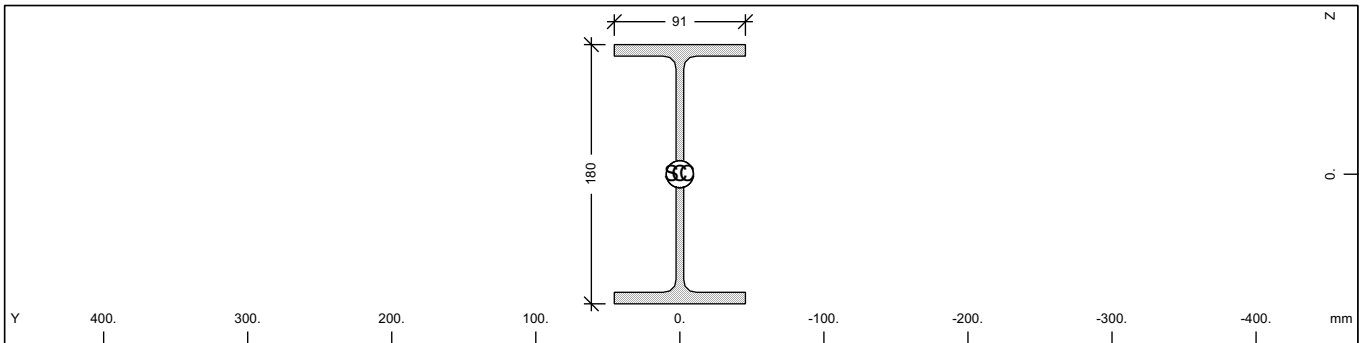
Design forces and moments

	N[kN]	Vy[kN]	Vz[kN]	Mt[kNm]	Mt2[kNm]	Mb[kNm2]	My[kNm]	Mz[kNm]	y[mm]	z[mm]	BUCK
= (C/E = characteristic plastic/elastic, D=plast.Design, F=elast. Design)											
C	530.4	153.12	153.12	17.94	0.57	0.89	22.73	22.73	0.0	0.0	a a
E	530.4	128.51	129.33	12.28	0.57	0.01	19.31	19.31	0.0	0.0	
D	530.4	153.12	153.12	17.94	0.57	0.89	22.73	22.73	0.0	0.0	
F	530.4	128.51	129.33	12.28	0.57	0.01	19.31	19.31	0.0	0.0	

N[kN]	normal force	Mb[kNm2]	warping moment
Vy[kN],Vz[kN]	shear force	My[kNm],Mz[kNm]	bending moment
Mt[kNm]	primary torsional moment	y[mm],z[mm]	ordinate of elastic centroid
Mt2[kNm]	secondary torsional moment	BUCK	buckling curve

Sections

Cross section No. 2 - IPE 180



Cross section No. 2 - IPE 180

Static properties of cross section

Mat	A[m2]	Ay[m2]	Iy[m4]	yc[mm]	ysc[mm]	E[N/mm2]	g[kN/m]
MRf	It[m4]	Az[m2]	Iz[m4]	zc[mm]	zsc[mm]	G[N/mm2]	
		Ayz[m2]	Iyz[m4]				
1	2.3947E-03	1.325E-03	1.317E-05	0.0	0.0	210000	0.19
	4.719E-08	9.238E-04	1.009E-06	0.0	0.0	80770	(BEAM)

Mat	material number	E[N/mm2]	Young's modulus
A[m2]	sectional area	g[kN/m]	weight per length
Ay[m2],Az[m2],Ayz[m2]	transverse shear deformation area	MRf	reinforcement material number
Iy[m4],Iz[m4],Iyz[m4]	bending moment of inertia	It[m4]	torsional moment of inertia
yc[mm],zc[mm]	ordinate of elastic centroid	G[N/mm2]	Shear modulus
ysc[mm],zsc[mm]	ordinate of shear centre		

Design values of cross section

Mat	A[m2]	Ay[m2]	Iy[m4]	yc[mm]	E[N/mm2]	g[kN/m]
MRf	It[m4]	Az[m2]	Iz[m4]	zc[mm]	G[N/mm2]	
		Ayz[m2]	Iyz[m4]			
1	2.3947E-03	1.325E-03	1.317E-05	0.0	210000	0.19
	4.719E-08	9.238E-04	1.009E-06	0.0	80770	

Mat	material number
A[m2]	sectional area
Ay[m2],Az[m2],Ayz[m2]	transverse shear deformation area
Iy[m4],Iz[m4],Iyz[m4]	bending moment of inertia
yc[mm],zc[mm]	ordinate of elastic centroid
E[N/mm2]	Young's modulus
g[kN/m]	weight per length
MRf	reinforcement material number
It[m4]	torsional moment of inertia
G[N/mm2]	Shear modulus

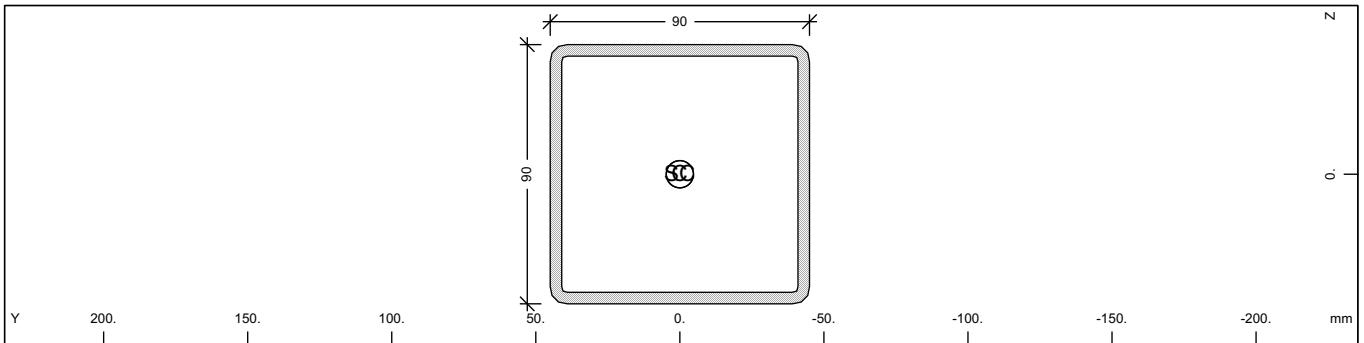
Design forces and moments

	N[kN]	Vy[kN]	Vz[kN]	Mt[kNm]	Mt2[kNm]	Mb[kNm2]	My[kNm]	Mz[kNm]	y[mm]	z[mm]	BUCK
=	(C/E = characteristic plastic/elastic, D=plast.Design, F=elast. Design)										
C	562.8	197.55	152.65	1.22	16.99	0.67	39.11	8.13	0.0	0.0	a b
E	562.8	117.64	113.81	0.48	10.03	0.42	34.39	5.21	0.0	0.0	
D	562.8	197.55	152.65	1.22	16.99	0.67	39.11	8.13	0.0	0.0	
F	562.8	117.64	113.81	0.48	10.03	0.42	34.39	5.21	0.0	0.0	

N[kN]	normal force	Mb[kNm2]	warping moment
Vy[kN],Vz[kN]	shear force	My[kNm],Mz[kNm]	bending moment
Mt[kNm]	primary torsional moment	y[mm],z[mm]	ordinate of elastic centroid
Mt2[kNm]	secondary torsional moment	BUCK	buckling curve

Sections

Cross section No. 3 - SH 90 x 90 x 4



Cross section No. 3 - SH 90 x 90 x 4

Static properties of cross section

Mat	A[m2]	Ay[m2]	Iy[m4]	yc[mm]	ysc[mm]	E[N/mm2]	g[kN/m]
MRf	It[m4]	Az[m2]	Iz[m4]	zc[mm]	zsc[mm]	G[N/mm2]	
		Ayz[m2]	Iyz[m4]				
1	1.3485E-03	5.820E-04	1.647E-06	0.0	0.0	210000	0.11
	2.604E-06	5.820E-04	1.647E-06	0.0	0.0	80770	(BEAM)
Mat material number A[m2] sectional area Ay[m2],Az[m2],Ayz[m2] transverse shear deformation area Iy[m4],Iz[m4],Iyz[m4] bending moment of inertia yc[mm],zc[mm] ordinate of elastic centroid ysc[mm],zsc[mm] ordinate of shear centre E[N/mm2] Young's modulus g[kN/m] weight per length MRf reinforcement material number It[m4] torsional moment of inertia G[N/mm2] Shear modulus							

Design values of cross section

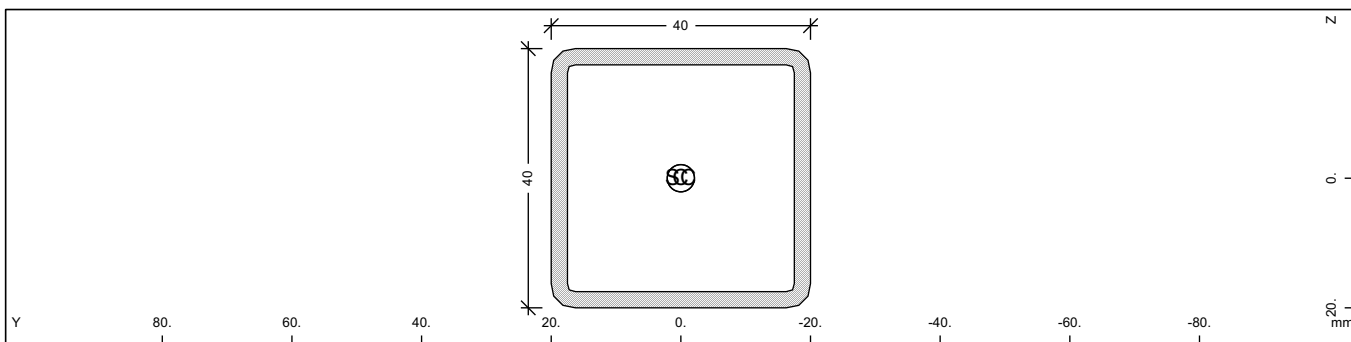
Mat	A[m2]	Ay[m2]	Iy[m4]	yc[mm]	E[N/mm2]	g[kN/m]
MRf	It[m4]	Az[m2]	Iz[m4]	zc[mm]	G[N/mm2]	
		Ayz[m2]	Iyz[m4]			
1	1.3485E-03	5.820E-04	1.647E-06	0.0	210000	0.11
	2.604E-06	5.820E-04	1.647E-06	0.0	80770	
Mat material number A[m2] sectional area Ay[m2],Az[m2],Ayz[m2] transverse shear deformation area Iy[m4],Iz[m4],Iyz[m4] bending moment of inertia yc[mm],zc[mm] ordinate of elastic centroid E[N/mm2] Young's modulus g[kN/m] weight per length MRf reinforcement material number It[m4] torsional moment of inertia G[N/mm2] Shear modulus						

Design forces and moments

	N[kN]	Vy[kN]	Vz[kN]	Mt[kNm]	Mt2[kNm]	Mb[kNm2]	My[kNm]	Mz[kNm]	y[mm]	z[mm]	BUCK
= (C/E = characteristic plastic/elastic, D=plast.Design, F=elast. Design)											
C	316.9	91.48	91.48	8.03		0.30	10.15	10.15	0.0	0.0	a a
E	316.9	76.10	77.47	5.48	0.27	0.00	8.60	8.60	0.0	0.0	
D	316.9	91.48	91.48	8.03		0.30	10.15	10.15	0.0	0.0	
F	316.9	76.10	77.47	5.48	0.27	0.00	8.60	8.60	0.0	0.0	
N[kN] normal force Vy[kN],Vz[kN] shear force Mt[kNm] primary torsional moment Mt2[kNm] secondary torsional moment Mb[kNm2] warping moment My[kNm],Mz[kNm] bending moment y[mm],z[mm] ordinate of elastic centroid BUCK buckling curve											

Sections

Cross section No. 4 - SH 40 x 40 x 2.5



Cross section No. 4 - SH 40 x 40 x 2.5

Static properties of cross section

Mat	A[m2]	Ay[m2]	Iy[m4]	yc[mm]	ysc[mm]	E[N/mm2]	g[kN/m]
MRf	It[m4]	Az[m2]	Iz[m4]	zc[mm]	zsc[mm]	G[N/mm2]	
		Ayz[m2]	Iyz[m4]				
1	3.6427E-04	1.598E-04	8.425E-08	0.0	0.0	210000	0.03
	1.361E-07	1.598E-04	8.425E-08	0.0	0.0	80770	(BEAM)

Mat	material number	E[N/mm2]	Young's modulus
A[m2]	sectional area	g[kN/m]	weight per length
Ay[m2],Az[m2],Ayz[m2]	transverse shear deformation area	MRf	reinforcement material number
Iy[m4],Iz[m4],Iyz[m4]	bending moment of inertia	It[m4]	torsional moment of inertia
yc[mm],zc[mm]	ordinate of elastic centroid	G[N/mm2]	Shear modulus
ysc[mm],zsc[mm]	ordinate of shear centre		

Design values of cross section

Mat	A[m2]	Ay[m2]	Iy[m4]	yc[mm]	E[N/mm2]	g[kN/m]
MRf	It[m4]	Az[m2]	Iz[m4]	zc[mm]	G[N/mm2]	
		Ayz[m2]	Iyz[m4]			
1	3.6427E-04	1.598E-04	8.425E-08	0.0	210000	0.03
	1.361E-07	1.598E-04	8.425E-08	0.0	80770	

Mat	material number
A[m2]	sectional area
Ay[m2],Az[m2],Ayz[m2]	transverse shear deformation area
Iy[m4],Iz[m4],Iyz[m4]	bending moment of inertia
yc[mm],zc[mm]	ordinate of elastic centroid
E[N/mm2]	Young's modulus
g[kN/m]	weight per length
MRf	reinforcement material number
It[m4]	torsional moment of inertia
G[N/mm2]	Shear modulus

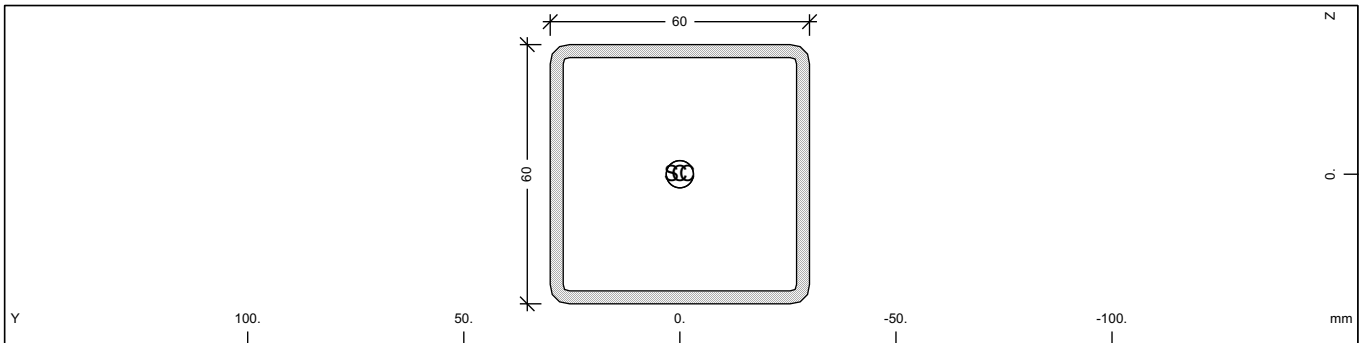
Design forces and moments

	N[kN]	Vy[kN]	Vz[kN]	Mt[kNm]	Mt2[kNm]	Mb[kNm2]	My[kNm]	Mz[kNm]	y[mm]	z[mm]	BUCK
= (C/E = characteristic plastic/elastic, D=plast.Design, F=elast. Design)											
C	85.6	24.71	24.71	0.95	0.02	0.02	1.19	1.19	0.0	0.0	a a
E	85.6	20.96	20.62	0.68	0.05	0.00	0.99	0.99	0.0	0.0	
D	85.6	24.71	24.71	0.95	0.02	0.02	1.19	1.19	0.0	0.0	
F	85.6	20.96	20.62	0.68	0.05	0.00	0.99	0.99	0.0	0.0	

N[kN]	normal force	Mb[kNm2]	warping moment
Vy[kN],Vz[kN]	shear force	My[kNm],Mz[kNm]	bending moment
Mt[kNm]	primary torsional moment	y[mm],z[mm]	ordinate of elastic centroid
Mt2[kNm]	secondary torsional moment	BUCK	buckling curve

Sections

Cross section No. 5 - SH 60 x 60 x 3



Cross section No. 5 - SH 60 x 60 x 3

Static properties of cross section

Mat	A[m2]	Ay[m2]	Iy[m4]	yc[mm]	ysc[mm]	E[N/mm2]	g[kN/m]
MRf	It[m4]	Az[m2]	Iz[m4]	zc[mm]	zsc[mm]	G[N/mm2]	
		Ayz[m2]	Iyz[m4]				
1	6.6855E-04	2.899E-04	3.582E-07	0.0	0.0	210000	0.05
	5.701E-07	2.899E-04	3.582E-07	0.0	0.0	80770	(BEAM)
Mat		material number		E[N/mm2]		Young's modulus	
A[m2]		sectional area		g[kN/m]		weight per length	
Ay[m2],Az[m2],Ayz[m2]		transverse shear deformation area		MRf		reinforcement material number	
Iy[m4],Iz[m4],Iyz[m4]		bending moment of inertia		It[m4]		torsional moment of inertia	
yc[mm],zc[mm]		ordinate of elastic centroid		G[N/mm2]		Shear modulus	
ysc[mm],zsc[mm]		ordinate of shear centre					

Design values of cross section

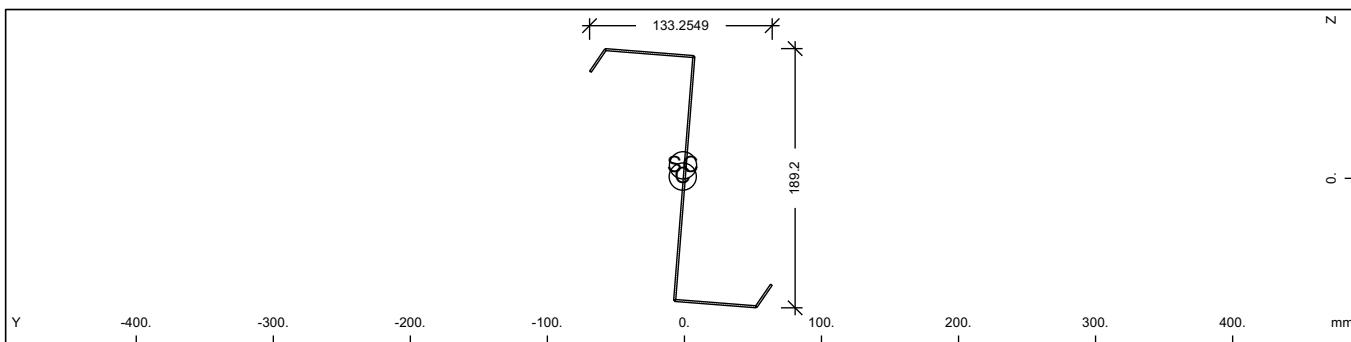
Mat	A[m2]	Ay[m2]	Iy[m4]	yc[mm]	E[N/mm2]	g[kN/m]
MRf	It[m4]	Az[m2]	Iz[m4]	zc[mm]	G[N/mm2]	
		Ayz[m2]	Iyz[m4]			
1	6.6855E-04	2.899E-04	3.582E-07	0.0	210000	0.05
	5.701E-07	2.899E-04	3.582E-07	0.0	80770	
Mat		material number				
A[m2]		sectional area				
Ay[m2],Az[m2],Ayz[m2]		transverse shear deformation area				
Iy[m4],Iz[m4],Iyz[m4]		bending moment of inertia				
yc[mm],zc[mm]		ordinate of elastic centroid				
E[N/mm2]		Young's modulus				
g[kN/m]		weight per length				
MRf		reinforcement material number				
It[m4]		torsional moment of inertia				
G[N/mm2]		Shear modulus				

Design forces and moments

	N[kN]	Vy[kN]	Vz[kN]	Mt[kNm]	Mt2[kNm]	Mb[kNm2]	My[kNm]	Mz[kNm]	y[mm]	z[mm]	BUCK
= (C/E = characteristic plastic/elastic, D=plast.Design, F=elast. Design)											
C	157.1	45.35	45.35	2.64		0.07	3.33	3.33	0.0	0.0	a a
E	157.1	31.25	31.27	1.46	0.08	0.00	2.81	2.81	0.0	0.0	
D	157.1	45.35	45.35	2.64		0.07	3.33	3.33	0.0	0.0	
F	157.1	31.25	31.27	1.46	0.08	0.00	2.81	2.81	0.0	0.0	
N[kN]		normal force		Mb[kNm2]		warping moment					
Vy[kN],Vz[kN]		shear force		My[kNm],Mz[kNm]		bending moment					
Mt[kNm]		primary torsional moment		y[mm],z[mm]		ordinate of elastic centroid					
Mt2[kNm]		secondary torsional moment		BUCK		buckling curve					

Sections

Cross section No. 6 - TEGIDA Z180x1.5



Cross section No. 6 - TEGIDA Z180x1.5

Static properties of cross section

Mat	A[m2]	Ay[m2]	Iy[m4]	yc[mm]	ysc[mm]	E[N/mm2]	g[kN/m]	
MRf	It[m4]	Az[m2]	Iz[m4]	zc[mm]	zsc[mm]	G[N/mm2]		
		Ayz[m2]	Iyz[m4]					
1	5.1289E-04	1.691E-04	2.698E-06	-1.2	-1.0	210000	0.04	
	3.847E-10	2.526E-04	3.872E-07	-1.3	-9.5	80770	(BEAM)	
			6.614E-07					
Mat	material number			E[N/mm2]	Young's modulus			
A[m2]	sectional area			g[kN/m]	weight per length			
Ay[m2],Az[m2],Ayz[m2]	transverse shear deformation area			MRf	reinforcement material number			
Iy[m4],Iz[m4],Iyz[m4]	bending moment of inertia			It[m4]	torsional moment of inertia			
yc[mm],zc[mm]	ordinate of elastic centroid			G[N/mm2]	Shear modulus			
ysc[mm],zsc[mm]	ordinate of shear centre							

Main axis of inertia rotated at -14.90 [°]

Main moments of inertia 2.8739E-06 2.1122E-07 [m4]

Design values of cross section

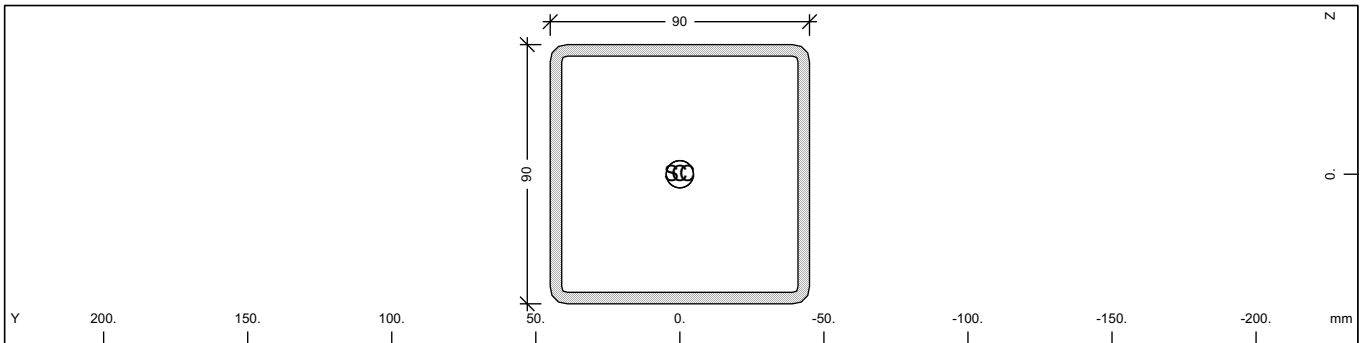
Mat	A[m2]	Ay[m2]	Iy[m4]	yc[mm]	E[N/mm2]	g[kN/m]
MRf	It[m4]	Az[m2]	Iz[m4]	zc[mm]	G[N/mm2]	
		Ayz[m2]	Iyz[m4]			
1	5.1289E-04	1.691E-04	2.698E-06	-1.2	210000	0.04
	3.847E-10	2.526E-04	3.872E-07	-1.3	80770	
			6.614E-07			
Mat	material number					
A[m2]	sectional area					
Ay[m2],Az[m2],Ayz[m2]	transverse shear deformation area					
Iy[m4],Iz[m4],Iyz[m4]	bending moment of inertia					
yc[mm],zc[mm]	ordinate of elastic centroid					
E[N/mm2]	Young's modulus					
g[kN/m]	weight per length					
MRf	reinforcement material number					
It[m4]	torsional moment of inertia					
G[N/mm2]	Shear modulus					

Design forces and moments

	N[kN]	Vy[kN]	Vz[kN]	Mt[kNm]	Mt2[kNm]	Mb[kNm2]	My[kNm]	Mz[kNm]	y[mm]	z[mm]	BUCK
=	(C/E = characteristic plastic/elastic, D=plast.Design, F=elast. Design)										
C	120.5	32.57	44.75	0.05	3.03	0.17	7.99	2.14	-0.3	-2.4	b c
C	-9.6						0.00	2.15	-1.2	0.0	COMB
E	120.5	22.07	29.16	0.03	2.14	0.11	3.63	1.09	-1.2	-1.3	
D	120.5	32.57	44.75	0.05	3.03	0.17	7.99	2.14	-0.3	-2.4	
D	-9.6						0.00	2.15	-1.2	0.0	COMB
F	120.5	22.07	29.16	0.03	2.14	0.11	3.63	1.09	-1.2	-1.3	
N[kN]	normal force			Mb[kNm2]		warping moment					
Vy[kN],Vz[kN]	shear force			My[kNm],Mz[kNm]		bending moment					
Mt[kNm]	primary torsional moment			y[mm],z[mm]		ordinate of elastic centroid					
Mt2[kNm]	secondary torsional moment			BUCK		buckling curve					

Sections

Cross section No. 7 - SH 90 x 90 x 4



Cross section No. 7 - SH 90 x 90 x 4

Static properties of cross section

Mat	A[m2]	Ay[m2]	Iy[m4]	yc[mm]	ysc[mm]	E[N/mm2]	g[kN/m]
MRf	It[m4]	Az[m2]	Iz[m4]	zc[mm]	zsc[mm]	G[N/mm2]	
		Ayz[m2]	Iyz[m4]				
1	1.3485E-03	5.820E-04	1.647E-06	0.0	0.0	210000	0.11
	2.604E-06	5.820E-04	1.647E-06	0.0	0.0	80770	(BEAM)

Mat	material number	E[N/mm2]	Young's modulus
A[m2]	sectional area	g[kN/m]	weight per length
Ay[m2],Az[m2],Ayz[m2]	transverse shear deformation area	MRf	reinforcement material number
Iy[m4],Iz[m4],Iyz[m4]	bending moment of inertia	It[m4]	torsional moment of inertia
yc[mm],zc[mm]	ordinate of elastic centroid	G[N/mm2]	Shear modulus
ysc[mm],zsc[mm]	ordinate of shear centre		

Design values of cross section

Mat	A[m2]	Ay[m2]	Iy[m4]	yc[mm]	E[N/mm2]	g[kN/m]
MRf	It[m4]	Az[m2]	Iz[m4]	zc[mm]	G[N/mm2]	
		Ayz[m2]	Iyz[m4]			
1	1.3485E-03	5.820E-04	1.647E-06	0.0	210000	0.11
	2.604E-06	5.820E-04	1.647E-06	0.0	80770	

Mat	material number
A[m2]	sectional area
Ay[m2],Az[m2],Ayz[m2]	transverse shear deformation area
Iy[m4],Iz[m4],Iyz[m4]	bending moment of inertia
yc[mm],zc[mm]	ordinate of elastic centroid
E[N/mm2]	Young's modulus
g[kN/m]	weight per length
MRf	reinforcement material number
It[m4]	torsional moment of inertia
G[N/mm2]	Shear modulus

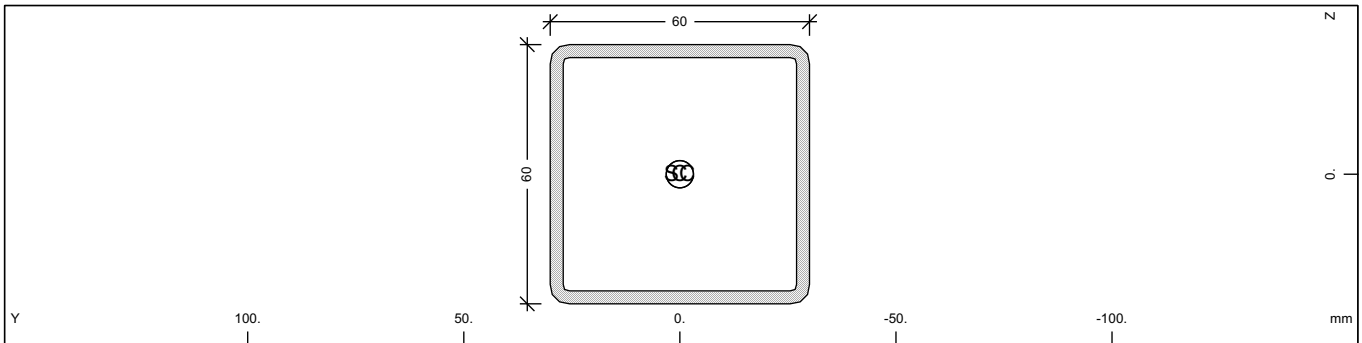
Design forces and moments

	N[kN]	Vy[kN]	Vz[kN]	Mt[kNm]	Mt2[kNm]	Mb[kNm2]	My[kNm]	Mz[kNm]	y[mm]	z[mm]	BUCK
= (C/E = characteristic plastic/elastic, D=plast.Design, F=elast. Design)											
C	316.9	91.48	91.48	8.03		0.30	10.15	10.15	0.0	0.0	a a
E	316.9	76.10	77.47	5.48	0.27	0.00	8.60	8.60	0.0	0.0	
D	316.9	91.48	91.48	8.03		0.30	10.15	10.15	0.0	0.0	
F	316.9	76.10	77.47	5.48	0.27	0.00	8.60	8.60	0.0	0.0	

N[kN]	normal force	Mb[kNm2]	warping moment
Vy[kN],Vz[kN]	shear force	My[kNm],Mz[kNm]	bending moment
Mt[kNm]	primary torsional moment	y[mm],z[mm]	ordinate of elastic centroid
Mt2[kNm]	secondary torsional moment	BUCK	buckling curve

Sections

Cross section No. 8 - SH 60 x 60 x 3



Cross section No. 8 - SH 60 x 60 x 3

Static properties of cross section

Mat	A[m2]	Ay[m2]	Iy[m4]	yc[mm]	ysc[mm]	E[N/mm2]	g[kN/m]
MRf	It[m4]	Az[m2]	Iz[m4]	zc[mm]	zsc[mm]	G[N/mm2]	
		Ayz[m2]	Iyz[m4]				
1	6.6855E-04	2.899E-04	3.582E-07	0.0	0.0	210000	0.05
	5.701E-07	2.899E-04	3.582E-07	0.0	0.0	80770	(BEAM)
Mat		material number		E[N/mm2]		Young's modulus	
A[m2]		sectional area		g[kN/m]		weight per length	
Ay[m2],Az[m2],Ayz[m2]		transverse shear deformation area		MRf		reinforcement material number	
Iy[m4],Iz[m4],Iyz[m4]		bending moment of inertia		It[m4]		torsional moment of inertia	
yc[mm],zc[mm]		ordinate of elastic centroid		G[N/mm2]		Shear modulus	
ysc[mm],zsc[mm]		ordinate of shear centre					

Design values of cross section

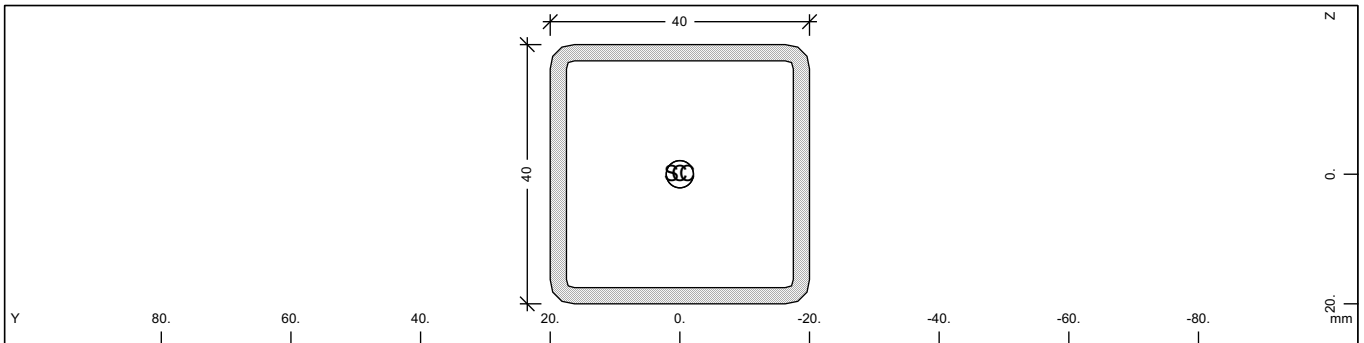
Mat	A[m2]	Ay[m2]	Iy[m4]	yc[mm]	E[N/mm2]	g[kN/m]
MRf	It[m4]	Az[m2]	Iz[m4]	zc[mm]	G[N/mm2]	
		Ayz[m2]	Iyz[m4]			
1	6.6855E-04	2.899E-04	3.582E-07	0.0	210000	0.05
	5.701E-07	2.899E-04	3.582E-07	0.0	80770	
Mat material number						
A[m2]		sectional area				
Ay[m2],Az[m2],Ayz[m2]		transverse shear deformation area				
Iy[m4],Iz[m4],Iyz[m4]		bending moment of inertia				
yc[mm],zc[mm]		ordinate of elastic centroid				
E[N/mm2]		Young's modulus				
g[kN/m]		weight per length				
MRf		reinforcement material number				
It[m4]		torsional moment of inertia				
G[N/mm2]		Shear modulus				

Design forces and moments

	N[kN]	Vy[kN]	Vz[kN]	Mt[kNm]	Mt2[kNm]	Mb[kNm2]	My[kNm]	Mz[kNm]	y[mm]	z[mm]	BUCK
= (C/E = characteristic plastic/elastic, D=plast.Design, F=elast. Design)											
C	157.1	45.35	45.35	2.64		0.07	3.33	3.33	0.0	0.0	a a
E	157.1	31.25	31.27	1.46	0.08	0.00	2.81	2.81	0.0	0.0	
D	157.1	45.35	45.35	2.64		0.07	3.33	3.33	0.0	0.0	
F	157.1	31.25	31.27	1.46	0.08	0.00	2.81	2.81	0.0	0.0	
N[kN]		normal force		Mb[kNm2]		warping moment					
Vy[kN],Vz[kN]		shear force		My[kNm],Mz[kNm]		bending moment					
Mt[kNm]		primary torsional moment		y[mm],z[mm]		ordinate of elastic centroid					
Mt2[kNm]		secondary torsional moment		BUCK		buckling curve					

Sections

Cross section No. 9 - SH 40 x 40 x 2.5



Cross section No. 9 - SH 40 x 40 x 2.5

Static properties of cross section

Mat	A[m2]	Ay[m2]	Iy[m4]	yc[mm]	ysc[mm]	E[N/mm2]	g[kN/m]
MRf	It[m4]	Az[m2]	Iz[m4]	zc[mm]	zsc[mm]	G[N/mm2]	
		Ayz[m2]	Iyz[m4]				
1	3.6427E-04	1.598E-04	8.425E-08	0.0	0.0	210000	0.03
	1.361E-07	1.598E-04	8.425E-08	0.0	0.0	80770	(BEAM)

Mat	material number	E[N/mm2]	Young's modulus
A[m2]	sectional area	g[kN/m]	weight per length
Ay[m2],Az[m2],Ayz[m2]	transverse shear deformation area	MRf	reinforcement material number
Iy[m4],Iz[m4],Iyz[m4]	bending moment of inertia	It[m4]	torsional moment of inertia
yc[mm],zc[mm]	ordinate of elastic centroid	G[N/mm2]	Shear modulus
ysc[mm],zsc[mm]	ordinate of shear centre		

Design values of cross section

Mat	A[m2]	Ay[m2]	Iy[m4]	yc[mm]	E[N/mm2]	g[kN/m]
MRf	It[m4]	Az[m2]	Iz[m4]	zc[mm]	G[N/mm2]	
		Ayz[m2]	Iyz[m4]			
1	3.6427E-04	1.598E-04	8.425E-08	0.0	210000	0.03
	1.361E-07	1.598E-04	8.425E-08	0.0	80770	

Mat	material number
A[m2]	sectional area
Ay[m2],Az[m2],Ayz[m2]	transverse shear deformation area
Iy[m4],Iz[m4],Iyz[m4]	bending moment of inertia
yc[mm],zc[mm]	ordinate of elastic centroid
E[N/mm2]	Young's modulus
g[kN/m]	weight per length
MRf	reinforcement material number
It[m4]	torsional moment of inertia
G[N/mm2]	Shear modulus

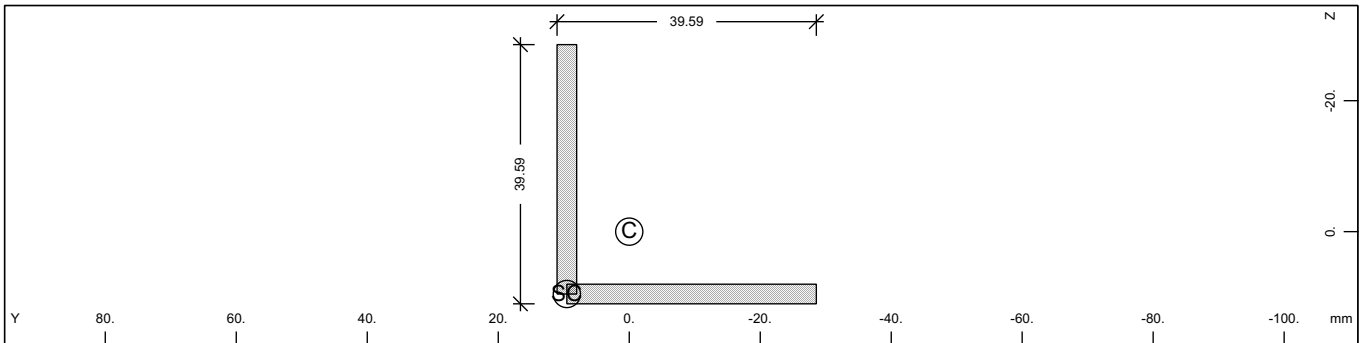
Design forces and moments

	N[kN]	Vy[kN]	Vz[kN]	Mt[kNm]	Mt2[kNm]	Mb[kNm2]	My[kNm]	Mz[kNm]	y[mm]	z[mm]	BUCK
= (C/E = characteristic plastic/elastic, D=plast.Design, F=elast. Design)											
C	85.6	24.71	24.71	0.95	0.02	0.02	1.19	1.19	0.0	0.0	a a
E	85.6	20.96	20.62	0.68	0.05	0.00	0.99	0.99	0.0	0.0	
D	85.6	24.71	24.71	0.95	0.02	0.02	1.19	1.19	0.0	0.0	
F	85.6	20.96	20.62	0.68	0.05	0.00	0.99	0.99	0.0	0.0	

N[kN]	normal force	Mb[kNm2]	warping moment
Vy[kN],Vz[kN]	shear force	My[kNm],Mz[kNm]	bending moment
Mt[kNm]	primary torsional moment	y[mm],z[mm]	ordinate of elastic centroid
Mt2[kNm]	secondary torsional moment	BUCK	buckling curve

Sections

Cross section No. 10 - L 40 x 3



Cross section No. 10 - L 40 x 3

Static properties of cross section

Mat	A[m2]	Ay[m2]	Iy[m4]	yc[mm]	ysc[mm]	E[N/mm2]	g[kN/m]
MRf	It[m4]	Az[m2]	Iz[m4]	zc[mm]	zsc[mm]	G[N/mm2]	
		Ayz[m2]	Iyz[m4]				
1	2.2854E-04	9.523E-05	3.454E-08	0.0	9.5	210000	0.02
	6.856E-10	9.523E-05	3.454E-08	0.0	9.5	80770	(BEAM)
			-2.072E-08				
Mat		material number		E[N/mm2]		Young's modulus	
A[m2]		sectional area		g[kN/m]		weight per length	
Ay[m2],Az[m2],Ayz[m2]		transverse shear deformation area		MRf		reinforcement material number	
Iy[m4],Iz[m4],Iyz[m4]		bending moment of inertia		It[m4]		torsional moment of inertia	
yc[mm],zc[mm]		ordinate of elastic centroid		G[N/mm2]		Shear modulus	
ysc[mm],zsc[mm]		ordinate of shear centre					

Main axis of inertia rotated at 45.00 [°]

Main moments of inertia 5.5263E-08 1.3816E-08 [m4]

Design values of cross section

Mat	A[m2]	Ay[m2]	Iy[m4]	yc[mm]	E[N/mm2]	g[kN/m]
MRf	It[m4]	Az[m2]	Iz[m4]	zc[mm]	G[N/mm2]	
		Ayz[m2]	Iyz[m4]			
1	2.2854E-04	9.523E-05	3.454E-08	0.0	210000	0.02
	6.856E-10	9.523E-05	3.454E-08	0.0	80770	
			-2.072E-08			
Mat		material number				
A[m2]		sectional area				
Ay[m2],Az[m2],Ayz[m2]		transverse shear deformation area				
Iy[m4],Iz[m4],Iyz[m4]		bending moment of inertia				
yc[mm],zc[mm]		ordinate of elastic centroid				
E[N/mm2]		Young's modulus				
g[kN/m]		weight per length				
MRf		reinforcement material number				
It[m4]		torsional moment of inertia				
G[N/mm2]		Shear modulus				

Design forces and moments

	N[kN]	Vy[kN]	Vz[kN]	Mt[kNm]	Mt2[kNm]	Mb[kNm2]	My[kNm]	Mz[kNm]	y[mm]	z[mm]	BUCK
= (C/E = characteristic plastic/elastic, D=plast.Design, F=elast. Design)											
C	53.7	15.67	15.67	0.05			0.51	0.51	8.1	8.1	b b
C	13.4						0.58	0.00	0.0	0.0	COMB
C	-13.4						0.00	0.58	0.0	0.0	COMB
E	53.7	11.48	11.48	0.03			0.23	0.23	0.0	0.0	
D	53.7	15.67	15.67	0.05			0.51	0.51	8.1	8.1	
D	13.4						0.58	0.00	0.0	0.0	COMB
D	-13.4						0.00	0.58	0.0	0.0	COMB
F	53.7	11.48	11.48	0.03			0.23	0.23	0.0	0.0	
N[kN]		normal force		Mb[kNm2]		warping moment					
Vy[kN],Vz[kN]		shear force		My[kNm],Mz[kNm]		bending moment					
Mt[kNm]		primary torsional moment		y[mm],z[mm]		ordinate of elastic centroid					
Mt2[kNm]		secondary torsional moment		BUCK		buckling curve					

Mesh Generation

Structural Elements

Structural Points

Number	X[m]	Y[m]	Z[m]	Support Conditions	Designation
1	0.000	0.000	0.000	PP	Point
2	14.150	0.000	-3.000	PPMM	Point
3	0.000	14.100	0.000	PP	Point
4	14.150	10.600	-3.000	PPMM	Point
5	0.000	7.100	0.000	PP	Point
6	0.000	3.600	0.000	PP	Point
7	14.150	7.100	-3.000	PPMM	Point
8	14.150	3.600	-3.000	PPMM	Point
9	0.000	10.600	0.000	PP	Point
10	14.150	14.100	-3.000	PPMM	Point
11	0.000	17.600	0.000	PP	Point
12	14.150	17.600	-3.000	PPMM	Point
13	0.000	21.100	0.000	PP	Point
14	14.150	21.100	-3.000	PPMM	Point
15	0.000	24.600	0.000	PP	Point
16	14.150	24.600	-3.000	PPMM	Point
17	0.000	28.700	0.000	PP	Point
18	14.150	28.700	-3.000	PPMM	Point
19	9.450	28.700	-3.000	PPMM	Point
20	9.450	0.000	-3.000	PPMM	Point
21	4.750	0.000	-3.000	PPMM	Point
22	4.750	28.700	-3.000	PPMM	Point
23	0.000	1.800	0.000	PP	Point
24	0.000	5.350	0.000	PP	Point
25	0.000	8.850	0.000	PP	Point
26	0.000	12.350	0.000	PP	Point
27	0.000	15.850	0.000	PP	Point
28	0.000	19.350	0.000	PP	Point
29	0.000	22.850	0.000	PP	Point
30	0.000	26.650	0.000	PP	Point
1001	0.000	0.000	2.461		
1002	0.000	3.600	2.461		
1003	0.000	7.100	2.461		
1004	0.000	21.100	2.461		
1005	0.000	17.600	2.461		
1006	0.000	14.100	2.461		
1007	0.000	10.600	2.461		
1008	0.000	24.600	2.461		
1009	0.000	28.700	2.461		
1010	14.150	0.000	0.950		
1011	14.150	3.600	0.950		
1012	14.150	7.100	0.950		
1013	14.150	21.100	0.950		
1014	14.150	17.600	0.950		
1015	14.150	14.100	0.950		
1016	14.150	10.600	0.950		
1017	14.150	24.600	0.950		
1018	14.150	28.700	0.950		
1019	9.450	0.000	0.950		
1020	4.750	0.000	0.950		
1021	4.750	28.700	0.950		
1022	9.450	28.700	0.950		
1023	0.000	0.000	0.950		
1024	4.350	0.000	0.950		
1025	9.950	0.000	0.950		
1026	1.550	0.000	2.350		
1027	2.950	0.000	2.250		
1028	4.350	0.000	2.150		

Mesh Generation

Structural Points

Number	X[m]	Y[m]	Z[m]	Support Conditions	Designation
1029	5.750	0.000	2.050		
1030	7.150	0.000	1.950		
1031	8.550	0.000	1.850		
1032	9.950	0.000	1.750		
1033	11.350	0.000	1.650		
1034	12.750	0.000	1.550		
1035	14.150	0.000	1.450		
1036	4.350	3.600	0.950		
1037	9.950	3.600	0.950		
1038	0.000	3.600	0.950		
1039	0.000	7.100	0.950		
1040	4.350	7.100	0.950		
1041	9.950	7.100	0.950		
1042	1.550	7.100	2.350		
1043	9.950	14.100	0.950		
1044	1.550	14.100	2.350		
1045	2.950	14.100	2.250		
1046	4.350	14.100	2.150		
1047	5.750	14.100	2.050		
1048	7.150	14.100	1.950		
1049	8.550	14.100	1.850		
1050	9.950	14.100	1.750		
1051	11.350	14.100	1.650		
1052	12.750	14.100	1.550		
1053	14.150	14.100	1.450		
1054	0.000	21.100	0.950		
1055	4.350	21.100	0.950		
1056	9.950	21.100	0.950		
1057	1.550	21.100	2.350		
1058	2.950	21.100	2.250		
1059	4.350	21.100	2.150		
1060	5.750	21.100	2.050		
1061	7.150	21.100	1.950		
1062	0.000	17.600	0.950		
1063	4.350	17.600	0.950		
1064	9.950	17.600	0.950		
1065	1.550	17.600	2.350		
1066	2.950	17.600	2.250		
1067	4.350	17.600	2.150		
1068	5.750	17.600	2.050		
1069	7.150	17.600	1.950		
1070	8.550	17.600	1.850		
1071	9.950	17.600	1.750		
1072	11.350	17.600	1.650		
1073	12.750	17.600	1.550		
1074	14.150	17.600	1.450		
1075	0.000	14.100	0.950		
1076	4.350	14.100	0.950		
1077	0.000	10.600	0.950		
1078	4.350	10.600	0.950		
1079	9.950	10.600	0.950		
1080	1.550	10.600	2.350		
1081	2.950	10.600	2.250		
1082	4.350	10.600	2.150		
1083	5.750	10.600	2.050		
1084	7.150	10.600	1.950		
1085	8.550	10.600	1.850		
1086	9.950	10.600	1.750		
1087	11.350	10.600	1.650		

Mesh Generation

Structural Points

Number	X[m]	Y[m]	Z[m]	Support Conditions	Designation
1088	12.750	10.600	1.550		
1089	14.150	10.600	1.450		
1090	1.550	3.600	2.350		
1091	2.950	3.600	2.250		
1092	4.350	3.600	2.150		
1093	5.750	3.600	2.050		
1094	7.150	3.600	1.950		
1095	8.550	3.600	1.850		
1096	9.950	3.600	1.750		
1097	11.350	3.600	1.650		
1098	12.750	3.600	1.550		
1099	14.150	3.600	1.450		
1100	8.550	21.100	1.850		
1101	9.950	21.100	1.750		
1102	11.350	21.100	1.650		
1103	12.750	21.100	1.550		
1104	14.150	21.100	1.450		
1105	2.950	7.100	2.250		
1106	4.350	7.100	2.150		
1107	5.750	7.100	2.050		
1108	7.150	7.100	1.950		
1109	8.550	7.100	1.850		
1110	9.950	7.100	1.750		
1111	11.350	7.100	1.650		
1112	12.750	7.100	1.550		
1113	14.150	7.100	1.450		
1114	0.000	24.600	0.950		
1115	4.350	24.600	0.950		
1116	9.950	24.600	0.950		
1117	1.550	0.000	0.950		
1118	2.950	0.000	0.950		
1119	5.750	0.000	0.950		
1120	7.150	0.000	0.950		
1121	8.550	0.000	0.950		
1122	11.350	0.000	0.950		
1123	12.750	0.000	0.950		
1124	7.150	3.600	0.950		
1125	1.550	10.600	0.950		
1126	2.950	10.600	0.950		
1127	5.750	10.600	0.950		
1128	7.150	10.600	0.950		
1129	8.550	10.600	0.950		
1130	11.350	10.600	0.950		
1131	8.550	3.600	0.950		
1132	11.350	3.600	0.950		
1133	12.750	3.600	0.950		
1134	2.950	3.600	0.950		
1135	1.550	14.100	0.950		
1136	2.950	14.100	0.950		
1137	11.350	17.600	0.950		
1138	12.750	17.600	0.950		
1139	12.750	14.100	0.950		
1140	1.550	17.600	0.950		
1141	2.950	17.600	0.950		
1142	5.750	17.600	0.950		
1143	7.150	17.600	0.950		
1144	8.550	17.600	0.950		
1145	5.750	14.100	0.950		
1146	7.150	14.100	0.950		

Mesh Generation

Structural Points

Number	X[m]	Y[m]	Z[m]	Support Conditions	Designation
1147	8.550	14.100	0.950		
1148	11.350	14.100	0.950		
1149	12.750	10.600	0.950		
1150	1.550	3.600	0.950		
1151	5.750	7.100	0.950		
1152	7.150	7.100	0.950		
1153	8.550	7.100	0.950		
1154	11.350	7.100	0.950		
1155	12.750	7.100	0.950		
1156	5.750	3.600	0.950		
1157	1.550	21.100	0.950		
1158	2.950	21.100	0.950		
1159	5.750	21.100	0.950		
1160	7.150	21.100	0.950		
1161	1.550	7.100	0.950		
1162	2.950	7.100	0.950		
1163	8.550	21.100	0.950		
1164	11.350	21.100	0.950		
1165	12.750	21.100	0.950		
1166	2.950	24.600	2.250		
1167	4.350	24.600	2.150		
1168	5.750	24.600	0.950		
1169	5.750	24.600	2.050		
1170	7.150	24.600	0.950		
1171	7.150	24.600	1.950		
1172	8.550	24.600	1.850		
1173	8.550	24.600	0.950		
1174	9.950	24.600	1.750		
1175	11.350	24.600	1.650		
1176	11.350	24.600	0.950		
1177	12.750	24.600	1.550		
1178	12.750	24.600	0.950		
1179	14.150	24.600	1.450		
1180	1.550	24.600	2.350		
1181	1.550	24.600	0.950		
1182	2.950	24.600	0.950		
1183	11.350	28.700	1.650		
1184	11.350	28.700	0.950		
1185	12.750	28.700	1.550		
1186	12.750	28.700	0.950		
1187	14.150	28.700	1.450		
1188	0.000	28.700	0.950		
1189	4.350	28.700	0.950		
1190	9.950	28.700	0.950		
1191	1.550	28.700	2.350		
1192	2.950	28.700	2.250		
1193	4.350	28.700	2.150		
1194	5.750	28.700	2.050		
1195	7.150	28.700	1.950		
1196	8.550	28.700	1.850		
1197	9.950	28.700	1.750		
1198	1.550	28.700	0.950		
1199	2.950	28.700	0.950		
1200	5.750	28.700	0.950		
1201	7.150	28.700	0.950		
1202	8.550	28.700	0.950		
1203	0.150	7.100	2.450		
1204	0.150	10.600	2.450		
1205	0.150	14.100	2.450		

Mesh Generation

Structural Points

Number	X[m]	Y[m]	Z[m]	Support Conditions	Designation
1206	0.150	17.600	2.450		
1207	0.150	21.100	2.450		
1208	0.150	24.600	2.450		
1209	0.150	28.700	2.450		
1210	0.150	3.600	2.450		
1211	0.150	0.000	2.450		

Structural Points - Column Head Properties

Number	Kind	dx[m]	dy[m]	A[m2]	t[mm]	SNo	Designation
1	Column	0.000	circular	0.000			Point
2	Column	0.000	circular	0.000			Point
3	Column	0.000	circular	0.000			Point
4	Column	0.000	circular	0.000			Point
5	Column	0.000	circular	0.000			Point
6	Column	0.000	circular	0.000			Point
7	Column	0.000	circular	0.000			Point
8	Column	0.000	circular	0.000			Point
9	Column	0.000	circular	0.000			Point
10	Column	0.000	circular	0.000			Point
11	Column	0.000	circular	0.000			Point
12	Column	0.000	circular	0.000			Point
13	Column	0.000	circular	0.000			Point
14	Column	0.000	circular	0.000			Point
15	Column	0.000	circular	0.000			Point
16	Column	0.000	circular	0.000			Point
17	Column	0.000	circular	0.000			Point
18	Column	0.000	circular	0.000			Point
19	Column	0.000	circular	0.000			Point
20	Column	0.000	circular	0.000			Point
21	Column	0.000	circular	0.000			Point
22	Column	0.000	circular	0.000			Point
23	Column	0.000	circular	0.000			Point
24	Column	0.000	circular	0.000			Point
25	Column	0.000	circular	0.000			Point
26	Column	0.000	circular	0.000			Point
27	Column	0.000	circular	0.000			Point
28	Column	0.000	circular	0.000			Point
29	Column	0.000	circular	0.000			Point
30	Column	0.000	circular	0.000			Point

dx[m],dy[m] local dimensions t[mm] thickness of column head
 A[m2] area of column head SNo section number

Structural Lines

Number	Spt-a	Spt-e	Ref	Type	SNo	Grp	Hinges-a	Hinges-e	Designation
1	1001	1023		CENT	1	1			Line
	1023	1		CENT	1	1			Line
2	1002	1038		CENT	1	1			Line
	1038	6		CENT	1	1			Line
3	1003	1039		CENT	1	1			Line
	1039	5		CENT	1	1			Line
4	1004	1054		CENT	1	1			Line
	1054	13		CENT	1	1			Line
5	1005	1062		CENT	1	1			Line
	1062	11		CENT	1	1			Line
6	1006	1075		CENT	1	1			Line
	1075	3		CENT	1	1			Line
7	1007	1077		CENT	1	1			Line
	1077	9		CENT	1	1			Line
8	1008	1114		CENT	1	1			Line
	1114	15		CENT	1	1			Line

Mesh Generation

Structural Lines

Number	Spt-a	Spt-e	Ref	Type	SNo	Grp	Hinges-a	Hinges-e	Designation
9	1009	1188		CENT	1	1			Line
	1188	17		CENT	1	1			Line
201	1010	2		CENT	2	2			Line
202	1011	8		CENT	2	2			Line
203	1012	7		CENT	2	2			Line
204	1013	14		CENT	2	2			Line
205	1014	12		CENT	2	2			Line
206	1015	10		CENT	2	2			Line
207	1016	4		CENT	2	2			Line
208	1017	16		CENT	2	2			Line
209	1018	18		CENT	2	2			Line
210	1019	20		CENT	2	2	MyMz		Line
211	1020	21		CENT	2	2	MyMz		Line
212	1021	22		CENT	2	2	MyMz		Line
213	1022	19		CENT	2	2	MyMz		Line
301	1023	1117		CENT	3	3			Line
	1117	1118		CENT	3	3			Line
	1118	1024		CENT	3	3			Line
302	1024	1020		CENT	3	3			Line
	1020	1119		CENT	3	3			Line
	1119	1120		CENT	3	3			Line
	1120	1121		CENT	3	3			Line
	1121	1019		CENT	3	3			Line
	1019	1025		CENT	3	3			Line
303	1025	1122		CENT	3	3			Line
	1122	1123		CENT	3	3			Line
	1123	1010		CENT	3	3			Line
304	1001	1211		CENT	3	3			Line
	1211	1026		CENT	3	3			Line
305	1026	1027		CENT	3	3			Line
306	1027	1028		CENT	3	3			Line
307	1028	1029		CENT	3	3			Line
308	1029	1030		CENT	3	3			Line
309	1030	1031		CENT	3	3			Line
310	1031	1032		CENT	3	3			Line
311	1032	1033		CENT	3	3			Line
312	1033	1034		CENT	3	3			Line
313	1034	1035		CENT	3	3			Line
314	1035	1010		CENT	3	3			Line
315	1036	1156		CENT	3	3			Line
	1156	1124		CENT	3	3			Line
	1124	1131		CENT	3	3			Line
	1131	1037		CENT	3	3			Line
316	1038	1150		CENT	3	3			Line
	1150	1134		CENT	3	3			Line
	1134	1036		CENT	3	3			Line
317	1039	1161		CENT	3	3			Line
	1161	1162		CENT	3	3			Line
	1162	1040		CENT	3	3			Line
318	1040	1151		CENT	3	3			Line
	1151	1152		CENT	3	3			Line
	1152	1153		CENT	3	3			Line
	1153	1041		CENT	3	3			Line
319	1041	1154		CENT	3	3			Line
	1154	1155		CENT	3	3			Line
	1155	1012		CENT	3	3			Line
320	1003	1203		CENT	3	3			Line
	1203	1042		CENT	3	3			Line
321	1043	1148		CENT	3	3			Line

Mesh Generation

Structural Lines

Number	SPT-a	SPT-e	Ref	Type	SNo	Grp	Hinges-a	Hinges-e	Designation
	1148	1139		CENT	3	3			Line
	1139	1015		CENT	3	3			Line
322	1006	1205		CENT	3	3			Line
	1205	1044		CENT	3	3			Line
323	1044	1045		CENT	3	3			Line
324	1045	1046		CENT	3	3			Line
325	1046	1047		CENT	3	3			Line
326	1047	1048		CENT	3	3			Line
327	1048	1049		CENT	3	3			Line
328	1049	1050		CENT	3	3			Line
329	1050	1051		CENT	3	3			Line
330	1051	1052		CENT	3	3			Line
331	1052	1053		CENT	3	3			Line
332	1053	1015		CENT	3	3			Line
333	1054	1157		CENT	3	3			Line
	1157	1158		CENT	3	3			Line
	1158	1055		CENT	3	3			Line
334	1055	1159		CENT	3	3			Line
	1159	1160		CENT	3	3			Line
	1160	1163		CENT	3	3			Line
	1163	1056		CENT	3	3			Line
335	1056	1164		CENT	3	3			Line
	1164	1165		CENT	3	3			Line
	1165	1013		CENT	3	3			Line
336	1004	1207		CENT	3	3			Line
	1207	1057		CENT	3	3			Line
337	1057	1058		CENT	3	3			Line
338	1058	1059		CENT	3	3			Line
339	1059	1060		CENT	3	3			Line
340	1060	1061		CENT	3	3			Line
341	1062	1140		CENT	3	3			Line
	1140	1141		CENT	3	3			Line
	1141	1063		CENT	3	3			Line
342	1063	1142		CENT	3	3			Line
	1142	1143		CENT	3	3			Line
	1143	1144		CENT	3	3			Line
	1144	1064		CENT	3	3			Line
343	1064	1137		CENT	3	3			Line
	1137	1138		CENT	3	3			Line
	1138	1014		CENT	3	3			Line
344	1005	1206		CENT	3	3			Line
	1206	1065		CENT	3	3			Line
345	1065	1066		CENT	3	3			Line
346	1066	1067		CENT	3	3			Line
347	1067	1068		CENT	3	3			Line
348	1068	1069		CENT	3	3			Line
349	1069	1070		CENT	3	3			Line
350	1070	1071		CENT	3	3			Line
351	1071	1072		CENT	3	3			Line
352	1072	1073		CENT	3	3			Line
353	1073	1074		CENT	3	3			Line
354	1074	1014		CENT	3	3			Line
355	1075	1135		CENT	3	3			Line
	1135	1136		CENT	3	3			Line
	1136	1076		CENT	3	3			Line
356	1076	1145		CENT	3	3			Line
	1145	1146		CENT	3	3			Line
	1146	1147		CENT	3	3			Line
	1147	1043		CENT	3	3			Line

Mesh Generation

Structural Lines

Number	SPT-a	SPT-e	Ref	Type	SNo	Grp	Hinges-a	Hinges-e	Designation
357	1077	1125		CENT	3	3			Line
	1125	1126		CENT	3	3			Line
	1126	1078		CENT	3	3			Line
358	1078	1127		CENT	3	3			Line
	1127	1128		CENT	3	3			Line
	1128	1129		CENT	3	3			Line
	1129	1079		CENT	3	3			Line
359	1079	1130		CENT	3	3			Line
	1130	1149		CENT	3	3			Line
	1149	1016		CENT	3	3			Line
360	1007	1204		CENT	3	3			Line
	1204	1080		CENT	3	3			Line
361	1080	1081		CENT	3	3			Line
362	1081	1082		CENT	3	3			Line
363	1082	1083		CENT	3	3			Line
364	1083	1084		CENT	3	3			Line
365	1084	1085		CENT	3	3			Line
366	1085	1086		CENT	3	3			Line
367	1086	1087		CENT	3	3			Line
368	1087	1088		CENT	3	3			Line
369	1088	1089		CENT	3	3			Line
370	1089	1016		CENT	3	3			Line
371	1037	1132		CENT	3	3			Line
	1132	1133		CENT	3	3			Line
	1133	1011		CENT	3	3			Line
372	1002	1210		CENT	3	3			Line
	1210	1090		CENT	3	3			Line
373	1090	1091		CENT	3	3			Line
374	1091	1092		CENT	3	3			Line
375	1092	1093		CENT	3	3			Line
376	1093	1094		CENT	3	3			Line
377	1094	1095		CENT	3	3			Line
378	1095	1096		CENT	3	3			Line
379	1096	1097		CENT	3	3			Line
380	1097	1098		CENT	3	3			Line
381	1098	1099		CENT	3	3			Line
382	1099	1011		CENT	3	3			Line
383	1061	1100		CENT	3	3			Line
384	1100	1101		CENT	3	3			Line
385	1101	1102		CENT	3	3			Line
386	1102	1103		CENT	3	3			Line
387	1103	1104		CENT	3	3			Line
388	1104	1013		CENT	3	3			Line
389	1042	1105		CENT	3	3			Line
390	1105	1106		CENT	3	3			Line
391	1106	1107		CENT	3	3			Line
392	1107	1108		CENT	3	3			Line
393	1108	1109		CENT	3	3			Line
394	1109	1110		CENT	3	3			Line
395	1110	1111		CENT	3	3			Line
396	1111	1112		CENT	3	3			Line
397	1112	1113		CENT	3	3			Line
398	1113	1012		CENT	3	3			Line
399	1114	1181		CENT	3	3			Line
	1181	1182		CENT	3	3			Line
	1182	1115		CENT	3	3			Line
400	1115	1168		CENT	3	3			Line
	1168	1170		CENT	3	3			Line
	1170	1173		CENT	3	3			Line

Mesh Generation

Structural Lines

Number	Spt-a	Spt-e	Ref	Type	SNo	Grp	Hinges-a	Hinges-e	Designation
	1173	1116		CENT	3	3			Line
401	1001	1117		TRUS	4	4			Line
402	1117	1026		TRUS	4	4			Line
403	1026	1118		TRUS	4	4			Line
404	1118	1027		TRUS	4	4			Line
405	1027	1024		TRUS	4	4			Line
406	1024	1028		TRUS	4	4			Line
407	1028	1119		TRUS	4	4			Line
408	1119	1029		TRUS	4	4			Line
409	1029	1120		TRUS	4	4			Line
410	1120	1030		TRUS	4	4			Line
411	1120	1031		TRUS	4	4			Line
412	1031	1121		TRUS	4	4			Line
413	1121	1032		TRUS	4	4			Line
414	1032	1025		TRUS	4	4			Line
415	1025	1033		TRUS	4	4			Line
416	1033	1122		TRUS	4	4			Line
417	1122	1034		TRUS	4	4			Line
418	1034	1123		TRUS	4	4			Line
419	1123	1035		TRUS	5	4			Line
420	1124	1094		TRUS	4	4			Line
421	1125	1080		TRUS	4	4			Line
422	1080	1126		TRUS	4	4			Line
423	1126	1081		TRUS	4	4			Line
424	1081	1078		TRUS	4	4			Line
425	1078	1082		TRUS	4	4			Line
426	1082	1127		TRUS	4	4			Line
427	1127	1083		TRUS	4	4			Line
428	1083	1128		TRUS	4	4			Line
429	1128	1084		TRUS	4	4			Line
430	1128	1085		TRUS	4	4			Line
431	1085	1129		TRUS	4	4			Line
432	1129	1086		TRUS	4	4			Line
433	1086	1079		TRUS	4	4			Line
434	1079	1087		TRUS	4	4			Line
435	1087	1130		TRUS	4	4			Line
436	1124	1095		TRUS	4	4			Line
437	1095	1131		TRUS	4	4			Line
438	1131	1096		TRUS	4	4			Line
439	1096	1037		TRUS	4	4			Line
440	1037	1097		TRUS	4	4			Line
441	1097	1132		TRUS	4	4			Line
442	1132	1098		TRUS	4	4			Line
443	1098	1133		TRUS	4	4			Line
444	1133	1099		TRUS	5	4			Line
445	1036	1092		TRUS	4	4			Line
446	1091	1036		TRUS	4	4			Line
447	1134	1091		TRUS	4	4			Line
448	1090	1134		TRUS	4	4			Line
449	1006	1135		TRUS	4	4			Line
450	1135	1044		TRUS	4	4			Line
451	1044	1136		TRUS	4	4			Line
452	1064	1072		TRUS	4	4			Line
453	1072	1137		TRUS	4	4			Line
454	1137	1073		TRUS	4	4			Line
455	1073	1138		TRUS	4	4			Line
456	1138	1074		TRUS	5	4			Line
457	1139	1053		TRUS	5	4			Line
458	1005	1140		TRUS	4	4			Line

Mesh Generation

Structural Lines

Number	SPT-a	SPT-e	Ref	Type	SNo	Grp	Hinges-a	Hinges-e	Designation
459	1140	1065		TRUS	4	4			Line
460	1065	1141		TRUS	4	4			Line
461	1141	1066		TRUS	4	4			Line
462	1066	1063		TRUS	4	4			Line
463	1063	1067		TRUS	4	4			Line
464	1067	1142		TRUS	4	4			Line
465	1142	1068		TRUS	4	4			Line
466	1068	1143		TRUS	4	4			Line
467	1143	1069		TRUS	4	4			Line
468	1143	1070		TRUS	4	4			Line
469	1070	1144		TRUS	4	4			Line
470	1144	1071		TRUS	4	4			Line
471	1071	1064		TRUS	4	4			Line
472	1136	1045		TRUS	4	4			Line
473	1045	1076		TRUS	4	4			Line
474	1076	1046		TRUS	4	4			Line
475	1046	1145		TRUS	4	4			Line
476	1145	1047		TRUS	4	4			Line
477	1047	1146		TRUS	4	4			Line
478	1146	1048		TRUS	4	4			Line
479	1146	1049		TRUS	4	4			Line
480	1049	1147		TRUS	4	4			Line
481	1147	1050		TRUS	4	4			Line
482	1050	1043		TRUS	4	4			Line
483	1043	1051		TRUS	4	4			Line
484	1051	1148		TRUS	4	4			Line
485	1148	1052		TRUS	4	4			Line
486	1052	1139		TRUS	4	4			Line
487	1139	1088		TRUS	4	4			Line
488	1088	1149		TRUS	4	4			Line
489	1149	1089		TRUS	5	4			Line
490	1007	1125		TRUS	4	4			Line
491	1105	1040		TRUS	4	4			Line
492	1002	1150		TRUS	4	4			Line
493	1150	1090		TRUS	4	4			Line
494	1040	1106		TRUS	4	4			Line
495	1106	1151		TRUS	4	4			Line
496	1151	1107		TRUS	4	4			Line
497	1107	1152		TRUS	4	4			Line
498	1152	1108		TRUS	4	4			Line
499	1152	1109		TRUS	4	4			Line
500	1109	1153		TRUS	4	4			Line
501	1153	1110		TRUS	4	4			Line
502	1110	1041		TRUS	4	4			Line
503	1041	1111		TRUS	4	4			Line
504	1111	1154		TRUS	4	4			Line
505	1154	1112		TRUS	4	4			Line
506	1112	1155		TRUS	4	4			Line
507	1155	1113		TRUS	5	4			Line
508	1093	1124		TRUS	4	4			Line
509	1092	1156		TRUS	4	4			Line
510	1156	1093		TRUS	4	4			Line
511	1004	1157		TRUS	4	4			Line
512	1157	1057		TRUS	4	4			Line
513	1057	1158		TRUS	4	4			Line
514	1158	1058		TRUS	4	4			Line
515	1058	1055		TRUS	4	4			Line
516	1055	1059		TRUS	4	4			Line
517	1059	1159		TRUS	4	4			Line

Mesh Generation

Structural Lines

Number	Spt-a	Spt-e	Ref	Type	SNo	Grp	Hinges-a	Hinges-e	Designation
518	1159	1060		TRUS	4	4			Line
519	1060	1160		TRUS	4	4			Line
520	1003	1161		TRUS	4	4			Line
521	1161	1042		TRUS	4	4			Line
522	1042	1162		TRUS	4	4			Line
523	1162	1105		TRUS	4	4			Line
524	1160	1061		TRUS	4	4			Line
525	1160	1100		TRUS	4	4			Line
526	1100	1163		TRUS	4	4			Line
527	1163	1101		TRUS	4	4			Line
528	1101	1056		TRUS	4	4			Line
529	1056	1102		TRUS	4	4			Line
530	1102	1164		TRUS	4	4			Line
531	1164	1103		TRUS	4	4			Line
532	1103	1165		TRUS	4	4			Line
533	1165	1104		TRUS	5	4			Line
534	1116	1176		CENT	3	3			Line
	1176	1178		CENT	3	3			Line
	1178	1017		CENT	3	3			Line
535	1166	1115		TRUS	4	4			Line
536	1115	1167		TRUS	4	4			Line
537	1167	1168		TRUS	4	4			Line
538	1168	1169		TRUS	4	4			Line
539	1169	1170		TRUS	4	4			Line
540	1170	1171		TRUS	4	4			Line
541	1170	1172		TRUS	4	4			Line
542	1172	1173		TRUS	4	4			Line
543	1173	1174		TRUS	4	4			Line
544	1174	1116		TRUS	4	4			Line
545	1116	1175		TRUS	4	4			Line
546	1175	1176		TRUS	4	4			Line
547	1176	1177		TRUS	4	4			Line
548	1177	1178		TRUS	4	4			Line
549	1178	1179		TRUS	5	4			Line
550	1008	1208		CENT	3	3			Line
	1208	1180		CENT	3	3			Line
551	1180	1166		CENT	3	3			Line
552	1166	1167		CENT	3	3			Line
553	1167	1169		CENT	3	3			Line
554	1169	1171		CENT	3	3			Line
555	1171	1172		CENT	3	3			Line
556	1172	1174		CENT	3	3			Line
557	1174	1175		CENT	3	3			Line
558	1175	1177		CENT	3	3			Line
559	1177	1179		CENT	3	3			Line
560	1179	1017		CENT	3	3			Line
561	1008	1181		TRUS	4	4			Line
562	1181	1180		TRUS	4	4			Line
563	1180	1182		TRUS	4	4			Line
564	1182	1166		TRUS	4	4			Line
565	1183	1184		TRUS	4	4			Line
566	1184	1185		TRUS	4	4			Line
567	1185	1186		TRUS	4	4			Line
568	1186	1187		TRUS	5	4			Line
569	1188	1198		CENT	3	3			Line
	1198	1199		CENT	3	3			Line
	1199	1189		CENT	3	3			Line
570	1189	1021		CENT	3	3			Line
	1021	1200		CENT	3	3			Line

Mesh Generation

Structural Lines

Number	Spt-a	Spt-e	Ref	Type	SNo	Grp	Hinges-a	Hinges-e	Designation
	1200	1201		CENT	3	3			Line
	1201	1202		CENT	3	3			Line
	1202	1022		CENT	3	3			Line
	1022	1190		CENT	3	3			Line
571	1190	1184		CENT	3	3			Line
	1184	1186		CENT	3	3			Line
	1186	1018		CENT	3	3			Line
572	1009	1209		CENT	3	3			Line
	1209	1191		CENT	3	3			Line
573	1191	1192		CENT	3	3			Line
574	1192	1193		CENT	3	3			Line
575	1193	1194		CENT	3	3			Line
576	1194	1195		CENT	3	3			Line
577	1195	1196		CENT	3	3			Line
578	1196	1197		CENT	3	3			Line
579	1197	1183		CENT	3	3			Line
580	1183	1185		CENT	3	3			Line
581	1185	1187		CENT	3	3			Line
582	1187	1018		CENT	3	3			Line
583	1009	1198		TRUS	4	4			Line
584	1198	1191		TRUS	4	4			Line
585	1191	1199		TRUS	4	4			Line
586	1199	1192		TRUS	4	4			Line
587	1192	1189		TRUS	4	4			Line
588	1189	1193		TRUS	4	4			Line
589	1193	1200		TRUS	4	4			Line
590	1200	1194		TRUS	4	4			Line
591	1194	1201		TRUS	4	4			Line
592	1201	1195		TRUS	4	4			Line
593	1201	1196		TRUS	4	4			Line
594	1196	1202		TRUS	4	4			Line
595	1202	1197		TRUS	4	4			Line
596	1197	1190		TRUS	4	4			Line
597	1190	1183		TRUS	4	4			Line
601	1026	1090		CENT	6	6			Line
602	1090	1042		CENT	6	6			Line
603	1042	1080		CENT	6	6			Line
604	1080	1044		CENT	6	6			Line
605	1044	1065		CENT	6	6			Line
606	1065	1057		CENT	6	6			Line
607	1057	1180		CENT	6	6			Line
608	1180	1191		CENT	6	6			Line
609	1092	1106		CENT	6	6			Line
610	1028	1092		CENT	6	6			Line
611	1106	1082		CENT	6	6			Line
612	1166	1192		CENT	6	6			Line
613	1082	1046		CENT	6	6			Line
614	1045	1066		CENT	6	6			Line
615	1027	1091		CENT	6	6			Line
616	1081	1045		CENT	6	6			Line
617	1066	1058		CENT	6	6			Line
618	1091	1105		CENT	6	6			Line
619	1105	1081		CENT	6	6			Line
620	1058	1166		CENT	6	6			Line
621	1046	1067		CENT	6	6			Line
622	1067	1059		CENT	6	6			Line
623	1059	1167		CENT	6	6			Line
624	1167	1193		CENT	6	6			Line
625	1029	1093		CENT	6	6			Line

Mesh Generation

Structural Lines

Number	SPT-a	SPT-e	Ref	Type	SNo	Grp	Hinges-a	Hinges-e	Designation
626	1083	1047		CENT	6	6			Line
627	1095	1109		CENT	6	6			Line
628	1068	1060		CENT	6	6			Line
629	1060	1169		CENT	6	6			Line
630	1169	1194		CENT	6	6			Line
631	1047	1068		CENT	6	6			Line
632	1107	1083		CENT	6	6			Line
633	1093	1107		CENT	6	6			Line
634	1061	1171		CENT	6	6			Line
635	1069	1061		CENT	6	6			Line
636	1048	1069		CENT	6	6			Line
637	1084	1048		CENT	6	6			Line
638	1108	1084		CENT	6	6			Line
639	1030	1094		CENT	6	6			Line
640	1094	1108		CENT	6	6			Line
641	1171	1195		CENT	6	6			Line
642	1031	1095		CENT	6	6			Line
643	1110	1086		CENT	6	6			Line
644	1172	1196		CENT	6	6			Line
645	1100	1172		CENT	6	6			Line
646	1070	1100		CENT	6	6			Line
647	1049	1070		CENT	6	6			Line
648	1085	1049		CENT	6	6			Line
649	1109	1085		CENT	6	6			Line
650	1096	1110		CENT	6	6			Line
651	1032	1096		CENT	6	6			Line
652	1086	1050		CENT	6	6			Line
653	1050	1071		CENT	6	6			Line
654	1071	1101		CENT	6	6			Line
655	1101	1174		CENT	6	6			Line
656	1174	1197		CENT	6	6			Line
657	1072	1102		CENT	6	6			Line
658	1051	1072		CENT	6	6			Line
659	1087	1051		CENT	6	6			Line
660	1097	1111		CENT	6	6			Line
661	1111	1087		CENT	6	6			Line
662	1175	1183		CENT	6	6			Line
663	1102	1175		CENT	6	6			Line
664	1033	1097		CENT	6	6			Line
665	1177	1185		CENT	6	6			Line
666	1112	1088		CENT	6	6			Line
667	1089	1053		CENT	6	6			Line
668	1088	1052		CENT	6	6			Line
669	1073	1103		CENT	6	6			Line
670	1052	1073		CENT	6	6			Line
671	1098	1112		CENT	6	6			Line
672	1103	1177		CENT	6	6			Line
673	1034	1098		CENT	6	6			Line
674	1179	1187		CENT	6	6			Line
675	1074	1104		CENT	6	6			Line
676	1104	1179		CENT	6	6			Line
677	1113	1089		CENT	6	6			Line
678	1099	1113		CENT	6	6			Line
679	1035	1099		CENT	6	6			Line
680	1053	1074		CENT	6	6			Line
681	1203	1204		CENT	6	6			Line
682	1204	1205		CENT	6	6			Line
683	1205	1206		CENT	6	6			Line
684	1206	1207		CENT	6	6			Line

Mesh Generation

Structural Lines

Number	Spt-a	Spt-e	Ref	Type	SNo	Grp	Hinges-a	Hinges-e	Designation
685	1207	1208		CENT	6	6			Line
686	1208	1209		CENT	6	6			Line
687	1210	1203		CENT	6	6			Line
688	1211	1210		CENT	6	6			Line
701	1010	1011		CENT	7	7			Line
702	1011	1012		CENT	7	7			Line
703	1012	1016		CENT	7	7			Line
704	1016	1015		CENT	7	7			Line
705	1015	1014		CENT	7	7			Line
706	1014	1013		CENT	7	7			Line
707	1013	1017		CENT	7	7			Line
708	1017	1018		CENT	7	7			Line
709	1001	1002		CENT	7	7			Line
710	1002	1003		CENT	7	7			Line
711	1003	1007		CENT	7	7			Line
712	1007	1006		CENT	7	7			Line
713	1006	1005		CENT	7	7			Line
714	1005	1004		CENT	7	7			Line
715	1004	1008		CENT	7	7			Line
716	1008	1009		CENT	7	7			Line
801	1001	23		TRUS	8	8			Line
802	23	1002		TRUS	8	8			Line
803	1002	24		TRUS	8	8			Line
804	24	1003		TRUS	8	8			Line
805	1003	25		TRUS	8	8			Line
806	25	1007		TRUS	8	8			Line
807	1007	26		TRUS	8	8			Line
808	26	1006		TRUS	8	8			Line
809	1006	27		TRUS	8	8			Line
810	27	1005		TRUS	8	8			Line
811	1005	28		TRUS	8	8			Line
812	28	1004		TRUS	8	8			Line
813	1004	29		TRUS	8	8			Line
814	29	1008		TRUS	8	8			Line
815	1008	30		TRUS	8	8			Line
816	30	1009		TRUS	8	8			Line
901	1010	8		TRUS	7	9			Line
902	1011	2		TRUS	7	9			Line
903	1016	10		TRUS	7	9			Line
904	1015	4		TRUS	7	9			Line
905	1017	18		TRUS	7	9			Line
906	1018	16		TRUS	7	9			Line
1001	1001	1091		TRUS	9	10			Line
1002	1091	1029		TRUS	9	10			Line
1003	1029	1095		TRUS	9	10			Line
1004	1095	1033		TRUS	9	10			Line
1005	1033	1099		TRUS	9	10			Line
1006	1035	1097		TRUS	9	10			Line
1007	1097	1031		TRUS	9	10			Line
1008	1031	1093		TRUS	9	10			Line
1009	1093	1027		TRUS	9	10			Line
1010	1027	1002		TRUS	9	10			Line
1011	1007	1045		TRUS	9	10			Line
1012	1045	1083		TRUS	9	10			Line
1013	1083	1049		TRUS	9	10			Line
1014	1049	1087		TRUS	9	10			Line
1015	1087	1053		TRUS	9	10			Line
1016	1089	1051		TRUS	9	10			Line
1017	1051	1085		TRUS	9	10			Line

Mesh Generation

Structural Lines

Number	Spt-a	Spt-e	Ref	Type	SNo	Grp	Hinges-a	Hinges-e	Designation
1018	1085	1047		TRUS	9	10			Line
1019	1047	1081		TRUS	9	10			Line
1020	1081	1006		TRUS	9	10			Line
1021	1008	1192		TRUS	9	10			Line
1022	1192	1169		TRUS	9	10			Line
1023	1169	1196		TRUS	9	10			Line
1024	1196	1175		TRUS	9	10			Line
1025	1175	1187		TRUS	9	10			Line
1026	1179	1183		TRUS	9	10			Line
1027	1183	1172		TRUS	9	10			Line
1028	1172	1194		TRUS	9	10			Line
1029	1194	1166		TRUS	9	10			Line
1030	1166	1009		TRUS	9	10			Line
1031	1004	1166		TRUS	9	10			Line
1032	1008	1058		TRUS	9	10			Line
1033	1058	1005		TRUS	9	10			Line
1034	1004	1066		TRUS	9	10			Line
1035	1066	1006		TRUS	9	10			Line
1036	1005	1045		TRUS	9	10			Line
1037	1175	1104		TRUS	9	10			Line
1038	1179	1102		TRUS	9	10			Line
1039	1102	1074		TRUS	9	10			Line
1040	1104	1072		TRUS	9	10			Line
1041	1072	1053		TRUS	9	10			Line
1042	1074	1051		TRUS	9	10			Line
1043	1089	1111		TRUS	9	10			Line
1044	1087	1113		TRUS	9	10			Line
1045	1113	1097		TRUS	9	10			Line
1046	1111	1099		TRUS	9	10			Line
1047	1002	1105		TRUS	9	10			Line
1048	1091	1003		TRUS	9	10			Line
1049	1003	1081		TRUS	9	10			Line
1050	1007	1105		TRUS	9	10			Line
1101	1024	1092		TRUS	10	11			Line
1102	1092	1040		TRUS	10	11			Line
1103	1040	1082		TRUS	10	11			Line
1104	1082	1076		TRUS	10	11			Line
1105	1076	1067		TRUS	10	11			Line
1106	1067	1055		TRUS	10	11			Line
1107	1055	1167		TRUS	10	11			Line
1108	1167	1189		TRUS	10	11			Line
1109	1193	1115		TRUS	10	11			Line
1110	1115	1059		TRUS	10	11			Line
1111	1059	1063		TRUS	10	11			Line
1112	1063	1046		TRUS	10	11			Line
1113	1046	1078		TRUS	10	11			Line
1114	1078	1106		TRUS	10	11			Line
1115	1106	1036		TRUS	10	11			Line
1116	1036	1028		TRUS	10	11			Line
1117	1032	1037		TRUS	10	11			Line
1118	1025	1096		TRUS	10	11			Line
1119	1096	1041		TRUS	10	11			Line
1120	1110	1037		TRUS	10	11			Line
1121	1110	1079		TRUS	10	11			Line
1122	1086	1041		TRUS	10	11			Line
1123	1086	1043		TRUS	10	11			Line
1124	1050	1079		TRUS	10	11			Line
1125	1050	1064		TRUS	10	11			Line
1126	1071	1043		TRUS	10	11			Line

Mesh Generation

Structural Lines

Number	Spt-a	Spt-e	Ref	Type	SNo	Grp	Hinges-a	Hinges-e	Designation
1127	1071	1056		TRUS	10	11			Line
1128	1101	1064		TRUS	10	11			Line
1129	1101	1116		TRUS	10	11			Line
1130	1174	1056		TRUS	10	11			Line
1131	1174	1190		TRUS	10	11			Line
1132	1197	1116		TRUS	10	11			Line
Spt-a,Spt-e structural point start / end SNo section number									
Ref reference line, reference axis Grp primary group number									
Type element type									

Calculation of forces and moments

Load Case 1 (G) MONIMO

Factor forces and moments	1.000
Factor dead weight DL-XX	0.000
Factor dead weight DL-YY	0.000
Factor dead weight DL-ZZ	-1.000
unfavourable safety factor	1.350
favourable safety factor	1.000
Combination coefficient ψ -0	1.000 (rare)
Combination coefficient ψ -1'	1.000 (non frequent)
Combination coefficient ψ -1	1.000 (frequent)
Combination coefficient ψ -2	1.000 (permanent)

Loads

Kind	Referenceto	Projection Coordinates	Type	Loadvalue
		W[m] X[m] Y[m] Z[m]		
Line		0.150 0.000 2.450	PG	0.28 [kN/m]
		0.150 3.600 2.450		0.28 [kN/m]
	GLN 688		activated	100.00 percent
Line		0.150 3.600 2.450	PG	0.28 [kN/m]
		0.150 7.100 2.450		0.28 [kN/m]
	GLN 687		activated	100.00 percent
Line		0.150 7.100 2.450	PG	0.28 [kN/m]
		0.150 10.600 2.450		0.28 [kN/m]
	GLN 681		activated	100.00 percent
Line		0.150 10.600 2.450	PG	0.28 [kN/m]
		0.150 14.100 2.450		0.28 [kN/m]
	GLN 682		activated	100.00 percent
Line		0.150 14.100 2.450	PG	0.28 [kN/m]
		0.150 17.600 2.450		0.28 [kN/m]
	GLN 683		activated	100.00 percent
Line		0.150 17.600 2.450	PG	0.28 [kN/m]
		0.150 21.100 2.450		0.28 [kN/m]
	GLN 684		activated	100.00 percent
Line		0.150 21.100 2.450	PG	0.28 [kN/m]
		0.150 24.600 2.450		0.28 [kN/m]
	GLN 685		activated	100.00 percent
Line		0.150 24.600 2.450	PG	0.28 [kN/m]
		0.150 28.700 2.450		0.28 [kN/m]
	GLN 686		activated	100.00 percent
Line		1.550 24.600 2.350	PG	0.28 [kN/m]
		1.550 28.700 2.350		0.28 [kN/m]
	GLN 608		activated	100.00 percent
Line		1.550 21.100 2.350	PG	0.28 [kN/m]
		1.550 24.600 2.350		0.28 [kN/m]
	GLN 607		activated	100.00 percent
Line		1.550 17.600 2.350	PG	0.28 [kN/m]
		1.550 21.100 2.350		0.28 [kN/m]
	GLN 606		activated	100.00 percent
Line		1.550 14.100 2.350	PG	0.28 [kN/m]
		1.550 17.600 2.350		0.28 [kN/m]
	GLN 605		activated	100.00 percent
Line		1.550 10.600 2.350	PG	0.28 [kN/m]
		1.550 14.100 2.350		0.28 [kN/m]
	GLN 604		activated	100.00 percent
Line		1.550 7.100 2.350	PG	0.28 [kN/m]
		1.550 10.600 2.350		0.28 [kN/m]
	GLN 603		activated	100.00 percent
Line		1.550 3.600 2.350	PG	0.28 [kN/m]
		1.550 7.100 2.350		0.28 [kN/m]
	GLN 602		activated	100.00 percent

Calculation of forces and moments

Loads

Kind	Referenceto	Projection	Coordinates	Type	Loadvalue
		W[m]	X[m]	Y[m]	Z[m]
Line			1.550	0.000	2.350 PG
			1.550	3.600	2.350
	GLN	601		activated	100.00 percent
Line			2.950	0.000	2.250 PG
			2.950	3.600	2.250
	GLN	615		activated	100.00 percent
Line			2.950	3.600	2.250 PG
			2.950	7.100	2.250
	GLN	618		activated	100.00 percent
Line			2.950	7.100	2.250 PG
			2.950	10.600	2.250
	GLN	619		activated	100.00 percent
Line			2.950	10.600	2.250 PG
			2.950	14.100	2.250
	GLN	616		activated	100.00 percent
Line			2.950	14.100	2.250 PG
			2.950	17.600	2.250
	GLN	614		activated	100.00 percent
Line			2.950	17.600	2.250 PG
			2.950	21.100	2.250
	GLN	617		activated	100.00 percent
Line			2.950	21.100	2.250 PG
			2.950	24.600	2.250
	GLN	620		activated	100.00 percent
Line			2.950	24.600	2.250 PG
			2.950	28.700	2.250
	GLN	612		activated	100.00 percent
Line			4.350	24.600	2.150 PG
			4.350	28.700	2.150
	GLN	624		activated	100.00 percent
Line			4.350	21.100	2.150 PG
			4.350	24.600	2.150
	GLN	623		activated	100.00 percent
Line			4.350	17.600	2.150 PG
			4.350	21.100	2.150
	GLN	622		activated	100.00 percent
Line			4.350	14.100	2.150 PG
			4.350	17.600	2.150
	GLN	621		activated	100.00 percent
Line			4.350	10.600	2.150 PG
			4.350	14.100	2.150
	GLN	613		activated	100.00 percent
Line			4.350	7.100	2.150 PG
			4.350	10.600	2.150
	GLN	611		activated	100.00 percent
Line			4.350	3.600	2.150 PG
			4.350	7.100	2.150
	GLN	609		activated	100.00 percent
Line			4.350	0.000	2.150 PG
			4.350	3.600	2.150
	GLN	610		activated	100.00 percent
Line			5.750	0.000	2.050 PG
			5.750	3.600	2.050
	GLN	625		activated	100.00 percent
Line			5.750	3.600	2.050 PG
			5.750	7.100	2.050
	GLN	633		activated	100.00 percent

Calculation of forces and moments

Loads

Kind	Reference	to	Projection Coordinates				Type	Load	value
			W[m]	X[m]	Y[m]	Z[m]			
Line	GLN	632		5.750	7.100	2.050	PG	0.28	[kN/m]
				5.750	10.600	2.050		0.28	[kN/m]
							activated	100.00	percent
Line	GLN	626		5.750	10.600	2.050	PG	0.28	[kN/m]
				5.750	14.100	2.050		0.28	[kN/m]
							activated	100.00	percent
Line	GLN	631		5.750	14.100	2.050	PG	0.28	[kN/m]
				5.750	17.600	2.050		0.28	[kN/m]
							activated	100.00	percent
Line	GLN	628		5.750	17.600	2.050	PG	0.28	[kN/m]
				5.750	21.100	2.050		0.28	[kN/m]
							activated	100.00	percent
Line	GLN	629		5.750	21.100	2.050	PG	0.28	[kN/m]
				5.750	24.600	2.050		0.28	[kN/m]
							activated	100.00	percent
Line	GLN	630		5.750	24.600	2.050	PG	0.28	[kN/m]
				5.750	28.700	2.050		0.28	[kN/m]
							activated	100.00	percent
Line	GLN	641		7.150	24.600	1.950	PG	0.28	[kN/m]
				7.150	28.700	1.950		0.28	[kN/m]
							activated	100.00	percent
Line	GLN	634		7.150	21.100	1.950	PG	0.28	[kN/m]
				7.150	24.600	1.950		0.28	[kN/m]
							activated	100.00	percent
Line	GLN	635		7.150	17.600	1.950	PG	0.28	[kN/m]
				7.150	21.100	1.950		0.28	[kN/m]
							activated	100.00	percent
Line	GLN	636		7.150	14.100	1.950	PG	0.28	[kN/m]
				7.150	17.600	1.950		0.28	[kN/m]
							activated	100.00	percent
Line	GLN	637		7.150	10.600	1.950	PG	0.28	[kN/m]
				7.150	14.100	1.950		0.28	[kN/m]
							activated	100.00	percent
Line	GLN	638		7.150	7.100	1.950	PG	0.28	[kN/m]
				7.150	10.600	1.950		0.28	[kN/m]
							activated	100.00	percent
Line	GLN	640		7.150	3.600	1.950	PG	0.28	[kN/m]
				7.150	7.100	1.950		0.28	[kN/m]
							activated	100.00	percent
Line	GLN	639		7.150	0.000	1.950	PG	0.28	[kN/m]
				7.150	3.600	1.950		0.28	[kN/m]
							activated	100.00	percent
Line	GLN	642		8.550	0.000	1.850	PG	0.28	[kN/m]
				8.550	3.600	1.850		0.28	[kN/m]
							activated	100.00	percent
Line	GLN	627		8.550	3.600	1.850	PG	0.28	[kN/m]
				8.550	7.100	1.850		0.28	[kN/m]
							activated	100.00	percent
Line	GLN	649		8.550	7.100	1.850	PG	0.28	[kN/m]
				8.550	10.600	1.850		0.28	[kN/m]
							activated	100.00	percent
Line	GLN	648		8.550	10.600	1.850	PG	0.28	[kN/m]
				8.550	14.100	1.850		0.28	[kN/m]
							activated	100.00	percent
Line	GLN	647		8.550	14.100	1.850	PG	0.28	[kN/m]
				8.550	17.600	1.850		0.28	[kN/m]
							activated	100.00	percent

Calculation of forces and moments

Loads

Kind	Reference	eto	Projection Coordinates				Type	Load	value
			W[m]	X[m]	Y[m]	Z[m]			
Line	GLN	646		8.550	17.600	1.850	PG	0.28	[kN/m]
				8.550	21.100	1.850		0.28	[kN/m]
							activated	100.00	percent
Line	GLN	645		8.550	21.100	1.850	PG	0.28	[kN/m]
				8.550	24.600	1.850		0.28	[kN/m]
							activated	100.00	percent
Line	GLN	644		8.550	24.600	1.850	PG	0.28	[kN/m]
				8.550	28.700	1.850		0.28	[kN/m]
							activated	100.00	percent
Line	GLN	656		9.950	24.600	1.750	PG	0.28	[kN/m]
				9.950	28.700	1.750		0.28	[kN/m]
							activated	100.00	percent
Line	GLN	655		9.950	21.100	1.750	PG	0.28	[kN/m]
				9.950	24.600	1.750		0.28	[kN/m]
							activated	100.00	percent
Line	GLN	654		9.950	17.600	1.750	PG	0.28	[kN/m]
				9.950	21.100	1.750		0.28	[kN/m]
							activated	100.00	percent
Line	GLN	653		9.950	14.100	1.750	PG	0.28	[kN/m]
				9.950	17.600	1.750		0.28	[kN/m]
							activated	100.00	percent
Line	GLN	652		9.950	10.600	1.750	PG	0.28	[kN/m]
				9.950	14.100	1.750		0.28	[kN/m]
							activated	100.00	percent
Line	GLN	643		9.950	7.100	1.750	PG	0.28	[kN/m]
				9.950	10.600	1.750		0.28	[kN/m]
							activated	100.00	percent
Line	GLN	650		9.950	3.600	1.750	PG	0.28	[kN/m]
				9.950	7.100	1.750		0.28	[kN/m]
							activated	100.00	percent
Line	GLN	651		9.950	0.000	1.750	PG	0.28	[kN/m]
				9.950	3.600	1.750		0.28	[kN/m]
							activated	100.00	percent
Line	GLN	664		11.350	0.000	1.650	PG	0.28	[kN/m]
				11.350	3.600	1.650		0.28	[kN/m]
							activated	100.00	percent
Line	GLN	660		11.350	3.600	1.650	PG	0.28	[kN/m]
				11.350	7.100	1.650		0.28	[kN/m]
							activated	100.00	percent
Line	GLN	661		11.350	7.100	1.650	PG	0.28	[kN/m]
				11.350	10.600	1.650		0.28	[kN/m]
							activated	100.00	percent
Line	GLN	659		11.350	10.600	1.650	PG	0.28	[kN/m]
				11.350	14.100	1.650		0.28	[kN/m]
							activated	100.00	percent
Line	GLN	658		11.350	14.100	1.650	PG	0.28	[kN/m]
				11.350	17.600	1.650		0.28	[kN/m]
							activated	100.00	percent
Line	GLN	657		11.350	17.600	1.650	PG	0.28	[kN/m]
				11.350	21.100	1.650		0.28	[kN/m]
							activated	100.00	percent
Line	GLN	663		11.350	21.100	1.650	PG	0.28	[kN/m]
				11.350	24.600	1.650		0.28	[kN/m]
							activated	100.00	percent
Line	GLN	662		11.350	24.600	1.650	PG	0.28	[kN/m]
				11.350	28.700	1.650		0.28	[kN/m]
							activated	100.00	percent

Calculation of forces and moments

Loads

Kind	Referenceto	Projection	Coordinates	Type	Loadvalue
		W[m]	X[m]	Y[m]	Z[m]
Line			12.750	24.600	1.550 PG
			12.750	28.700	1.550
	GLN 665			activated	100.00 percent
Line			12.750	21.100	1.550 PG
			12.750	24.600	1.550
	GLN 672			activated	100.00 percent
Line			12.750	17.600	1.550 PG
			12.750	21.100	1.550
	GLN 669			activated	100.00 percent
Line			12.750	14.100	1.550 PG
			12.750	17.600	1.550
	GLN 670			activated	100.00 percent
Line			12.750	10.600	1.550 PG
			12.750	14.100	1.550
	GLN 668			activated	100.00 percent
Line			12.750	7.100	1.550 PG
			12.750	10.600	1.550
	GLN 666			activated	100.00 percent
Line			12.750	3.600	1.550 PG
			12.750	7.100	1.550
	GLN 671			activated	100.00 percent
Line			12.750	0.000	1.550 PG
			12.750	3.600	1.550
	GLN 673			activated	100.00 percent
Line			14.150	0.000	1.450 PG
			14.150	3.600	1.450
	GLN 679			activated	100.00 percent
Line			14.150	3.600	1.450 PG
			14.150	7.100	1.450
	GLN 678			activated	100.00 percent
Line			14.150	7.100	1.450 PG
			14.150	10.600	1.450
	GLN 677			activated	100.00 percent
Line			14.150	10.600	1.450 PG
			14.150	14.100	1.450
	GLN 667			activated	100.00 percent
Line			14.150	14.100	1.450 PG
			14.150	17.600	1.450
	GLN 680			activated	100.00 percent
Line			14.150	17.600	1.450 PG
			14.150	21.100	1.450
	GLN 675			activated	100.00 percent
Line			14.150	21.100	1.450 PG
			14.150	24.600	1.450
	GLN 676			activated	100.00 percent
Line			14.150	24.600	1.450 PG
			14.150	28.700	1.450
	GLN 674			activated	100.00 percent

Calculation of forces and moments

Load Case 2 (Q) KINHTO

Factor forces and moments	1.000
Factor dead weight DL-XX	0.000
Factor dead weight DL-YY	0.000
Factor dead weight DL-ZZ	0.000
unfavourable safety factor	1.500
favourable safety factor	0.000
Combination coefficient ψ -0	0.700 (rare)
Combination coefficient ψ -1'	1.000 (non frequent)
Combination coefficient ψ -1	0.500 (frequent)
Combination coefficient ψ -2	0.300 (permanent)

Load Case 3 (S) XIONI

Factor forces and moments	1.000
Factor dead weight DL-XX	0.000
Factor dead weight DL-YY	0.000
Factor dead weight DL-ZZ	0.000
unfavourable safety factor	1.500
favourable safety factor	0.000
Combination coefficient ψ -0	0.500 (rare)
Combination coefficient ψ -1'	0.200 (non frequent)
Combination coefficient ψ -1	0.200 (frequent)
Combination coefficient ψ -2	0.000 (permanent)

Loads

Kind	Referenceto	Projection	Coordinates				Type	Loadvalue
			W[m]	X[m]	Y[m]	Z[m]		
Line	GLN 688			0.150	0.000	2.450	PG	0.45 [kN/m]
				0.150	3.600	2.450		0.45 [kN/m]
							activated	100.00 percent
Line	GLN 687			0.150	3.600	2.450	PG	0.45 [kN/m]
				0.150	7.100	2.450		0.45 [kN/m]
							activated	100.00 percent
Line	GLN 681			0.150	7.100	2.450	PG	0.45 [kN/m]
				0.150	10.600	2.450		0.45 [kN/m]
							activated	100.00 percent
Line	GLN 682			0.150	10.600	2.450	PG	0.45 [kN/m]
				0.150	14.100	2.450		0.45 [kN/m]
							activated	100.00 percent
Line	GLN 683			0.150	14.100	2.450	PG	0.45 [kN/m]
				0.150	17.600	2.450		0.45 [kN/m]
							activated	100.00 percent
Line	GLN 684			0.150	17.600	2.450	PG	0.45 [kN/m]
				0.150	21.100	2.450		0.45 [kN/m]
							activated	100.00 percent
Line	GLN 685			0.150	21.100	2.450	PG	0.45 [kN/m]
				0.150	24.600	2.450		0.45 [kN/m]
							activated	100.00 percent
Line	GLN 686			0.150	24.600	2.450	PG	0.45 [kN/m]
				0.150	28.700	2.450		0.45 [kN/m]
							activated	100.00 percent
Line	GLN 608			1.550	24.600	2.350	PG	0.45 [kN/m]
				1.550	28.700	2.350		0.45 [kN/m]
							activated	100.00 percent
Line	GLN 607			1.550	21.100	2.350	PG	0.45 [kN/m]
				1.550	24.600	2.350		0.45 [kN/m]
							activated	100.00 percent
Line	GLN 606			1.550	17.600	2.350	PG	0.45 [kN/m]
				1.550	21.100	2.350		0.45 [kN/m]
							activated	100.00 percent

Calculation of forces and moments

Loads

Kind	Referenceto	Projection	Coordinates	Type	Loadvalue
		W[m]	X[m]	Y[m]	Z[m]
Line			1.550	14.100	2.350 PG
			1.550	17.600	2.350
	GLN	605			activated
					100.00 percent
Line			1.550	10.600	2.350 PG
			1.550	14.100	2.350
	GLN	604			activated
					100.00 percent
Line			1.550	7.100	2.350 PG
			1.550	10.600	2.350
	GLN	603			activated
					100.00 percent
Line			1.550	3.600	2.350 PG
			1.550	7.100	2.350
	GLN	602			activated
					100.00 percent
Line			1.550	0.000	2.350 PG
			1.550	3.600	2.350
	GLN	601			activated
					100.00 percent
Line			2.950	0.000	2.250 PG
			2.950	3.600	2.250
	GLN	615			activated
					100.00 percent
Line			2.950	3.600	2.250 PG
			2.950	7.100	2.250
	GLN	618			activated
					100.00 percent
Line			2.950	7.100	2.250 PG
			2.950	10.600	2.250
	GLN	619			activated
					100.00 percent
Line			2.950	10.600	2.250 PG
			2.950	14.100	2.250
	GLN	616			activated
					100.00 percent
Line			2.950	14.100	2.250 PG
			2.950	17.600	2.250
	GLN	614			activated
					100.00 percent
Line			2.950	17.600	2.250 PG
			2.950	21.100	2.250
	GLN	617			activated
					100.00 percent
Line			2.950	21.100	2.250 PG
			2.950	24.600	2.250
	GLN	620			activated
					100.00 percent
Line			2.950	24.600	2.250 PG
			2.950	28.700	2.250
	GLN	612			activated
					100.00 percent
Line			4.350	24.600	2.150 PG
			4.350	28.700	2.150
	GLN	624			activated
					100.00 percent
Line			4.350	21.100	2.150 PG
			4.350	24.600	2.150
	GLN	623			activated
					100.00 percent
Line			4.350	17.600	2.150 PG
			4.350	21.100	2.150
	GLN	622			activated
					100.00 percent
Line			4.350	14.100	2.150 PG
			4.350	17.600	2.150
	GLN	621			activated
					100.00 percent
Line			4.350	10.600	2.150 PG
			4.350	14.100	2.150
	GLN	613			activated
					100.00 percent
Line			4.350	7.100	2.150 PG
			4.350	10.600	2.150
	GLN	611			activated
					100.00 percent

Calculation of forces and moments

Loads

Kind	Reference	Projection	Coordinates				Type	Load	value
		W[m]	X[m]	Y[m]	Z[m]				
Line			4.350	3.600	2.150	PG		0.45 [kN/m]	
			4.350	7.100	2.150			0.45 [kN/m]	
	GLN	609				activated		100.00 percent	
Line			4.350	0.000	2.150	PG		0.45 [kN/m]	
			4.350	3.600	2.150			0.45 [kN/m]	
	GLN	610				activated		100.00 percent	
Line			5.750	0.000	2.050	PG		0.45 [kN/m]	
			5.750	3.600	2.050			0.45 [kN/m]	
	GLN	625				activated		100.00 percent	
Line			5.750	3.600	2.050	PG		0.45 [kN/m]	
			5.750	7.100	2.050			0.45 [kN/m]	
	GLN	633				activated		100.00 percent	
Line			5.750	7.100	2.050	PG		0.45 [kN/m]	
			5.750	10.600	2.050			0.45 [kN/m]	
	GLN	632				activated		100.00 percent	
Line			5.750	10.600	2.050	PG		0.45 [kN/m]	
			5.750	14.100	2.050			0.45 [kN/m]	
	GLN	626				activated		100.00 percent	
Line			5.750	14.100	2.050	PG		0.45 [kN/m]	
			5.750	17.600	2.050			0.45 [kN/m]	
	GLN	631				activated		100.00 percent	
Line			5.750	17.600	2.050	PG		0.45 [kN/m]	
			5.750	21.100	2.050			0.45 [kN/m]	
	GLN	628				activated		100.00 percent	
Line			5.750	21.100	2.050	PG		0.45 [kN/m]	
			5.750	24.600	2.050			0.45 [kN/m]	
	GLN	629				activated		100.00 percent	
Line			5.750	24.600	2.050	PG		0.45 [kN/m]	
			5.750	28.700	2.050			0.45 [kN/m]	
	GLN	630				activated		100.00 percent	
Line			7.150	24.600	1.950	PG		0.45 [kN/m]	
			7.150	28.700	1.950			0.45 [kN/m]	
	GLN	641				activated		100.00 percent	
Line			7.150	21.100	1.950	PG		0.45 [kN/m]	
			7.150	24.600	1.950			0.45 [kN/m]	
	GLN	634				activated		100.00 percent	
Line			7.150	17.600	1.950	PG		0.45 [kN/m]	
			7.150	21.100	1.950			0.45 [kN/m]	
	GLN	635				activated		100.00 percent	
Line			7.150	14.100	1.950	PG		0.45 [kN/m]	
			7.150	17.600	1.950			0.45 [kN/m]	
	GLN	636				activated		100.00 percent	
Line			7.150	10.600	1.950	PG		0.45 [kN/m]	
			7.150	14.100	1.950			0.45 [kN/m]	
	GLN	637				activated		100.00 percent	
Line			7.150	7.100	1.950	PG		0.45 [kN/m]	
			7.150	10.600	1.950			0.45 [kN/m]	
	GLN	638				activated		100.00 percent	
Line			7.150	3.600	1.950	PG		0.45 [kN/m]	
			7.150	7.100	1.950			0.45 [kN/m]	
	GLN	640				activated		100.00 percent	
Line			7.150	0.000	1.950	PG		0.45 [kN/m]	
			7.150	3.600	1.950			0.45 [kN/m]	
	GLN	639				activated		100.00 percent	
Line			8.550	0.000	1.850	PG		0.45 [kN/m]	
			8.550	3.600	1.850			0.45 [kN/m]	
	GLN	642				activated		100.00 percent	

Calculation of forces and moments

Loads

Kind	Reference	eto	Projection Coordinates				Type	Load	value
			W[m]	X[m]	Y[m]	Z[m]			
Line	GLN	627		8.550	3.600	1.850	PG	0.45	[kN/m]
				8.550	7.100	1.850		0.45	[kN/m]
							activated	100.00	percent
Line	GLN	649		8.550	7.100	1.850	PG	0.45	[kN/m]
				8.550	10.600	1.850		0.45	[kN/m]
							activated	100.00	percent
Line	GLN	648		8.550	10.600	1.850	PG	0.45	[kN/m]
				8.550	14.100	1.850		0.45	[kN/m]
							activated	100.00	percent
Line	GLN	647		8.550	14.100	1.850	PG	0.45	[kN/m]
				8.550	17.600	1.850		0.45	[kN/m]
							activated	100.00	percent
Line	GLN	646		8.550	17.600	1.850	PG	0.45	[kN/m]
				8.550	21.100	1.850		0.45	[kN/m]
							activated	100.00	percent
Line	GLN	645		8.550	21.100	1.850	PG	0.45	[kN/m]
				8.550	24.600	1.850		0.45	[kN/m]
							activated	100.00	percent
Line	GLN	644		8.550	24.600	1.850	PG	0.45	[kN/m]
				8.550	28.700	1.850		0.45	[kN/m]
							activated	100.00	percent
Line	GLN	656		9.950	24.600	1.750	PG	0.45	[kN/m]
				9.950	28.700	1.750		0.45	[kN/m]
							activated	100.00	percent
Line	GLN	655		9.950	21.100	1.750	PG	0.45	[kN/m]
				9.950	24.600	1.750		0.45	[kN/m]
							activated	100.00	percent
Line	GLN	654		9.950	17.600	1.750	PG	0.45	[kN/m]
				9.950	21.100	1.750		0.45	[kN/m]
							activated	100.00	percent
Line	GLN	653		9.950	14.100	1.750	PG	0.45	[kN/m]
				9.950	17.600	1.750		0.45	[kN/m]
							activated	100.00	percent
Line	GLN	652		9.950	10.600	1.750	PG	0.45	[kN/m]
				9.950	14.100	1.750		0.45	[kN/m]
							activated	100.00	percent
Line	GLN	643		9.950	7.100	1.750	PG	0.45	[kN/m]
				9.950	10.600	1.750		0.45	[kN/m]
							activated	100.00	percent
Line	GLN	650		9.950	3.600	1.750	PG	0.45	[kN/m]
				9.950	7.100	1.750		0.45	[kN/m]
							activated	100.00	percent
Line	GLN	651		9.950	0.000	1.750	PG	0.45	[kN/m]
				9.950	3.600	1.750		0.45	[kN/m]
							activated	100.00	percent
Line	GLN	664		11.350	0.000	1.650	PG	0.45	[kN/m]
				11.350	3.600	1.650		0.45	[kN/m]
							activated	100.00	percent
Line	GLN	660		11.350	3.600	1.650	PG	0.45	[kN/m]
				11.350	7.100	1.650		0.45	[kN/m]
							activated	100.00	percent
Line	GLN	661		11.350	7.100	1.650	PG	0.45	[kN/m]
				11.350	10.600	1.650		0.45	[kN/m]
							activated	100.00	percent
Line	GLN	659		11.350	10.600	1.650	PG	0.45	[kN/m]
				11.350	14.100	1.650		0.45	[kN/m]
							activated	100.00	percent

Calculation of forces and moments

Loads

Kind	Referenceto	Projection	Coordinates	Type	Loadvalue
		W[m]	X[m]	Y[m]	Z[m]
Line			11.350	14.100	1.650 PG
			11.350	17.600	1.650
	GLN 658				activated
					100.00 percent
Line			11.350	17.600	1.650 PG
			11.350	21.100	1.650
	GLN 657				activated
					100.00 percent
Line			11.350	21.100	1.650 PG
			11.350	24.600	1.650
	GLN 663				activated
					100.00 percent
Line			11.350	24.600	1.650 PG
			11.350	28.700	1.650
	GLN 662				activated
					100.00 percent
Line			12.750	24.600	1.550 PG
			12.750	28.700	1.550
	GLN 665				activated
					100.00 percent
Line			12.750	21.100	1.550 PG
			12.750	24.600	1.550
	GLN 672				activated
					100.00 percent
Line			12.750	17.600	1.550 PG
			12.750	21.100	1.550
	GLN 669				activated
					100.00 percent
Line			12.750	14.100	1.550 PG
			12.750	17.600	1.550
	GLN 670				activated
					100.00 percent
Line			12.750	10.600	1.550 PG
			12.750	14.100	1.550
	GLN 668				activated
					100.00 percent
Line			12.750	7.100	1.550 PG
			12.750	10.600	1.550
	GLN 666				activated
					100.00 percent
Line			12.750	3.600	1.550 PG
			12.750	7.100	1.550
	GLN 671				activated
					100.00 percent
Line			12.750	0.000	1.550 PG
			12.750	3.600	1.550
	GLN 673				activated
					100.00 percent
Line			14.150	0.000	1.450 PG
			14.150	3.600	1.450
	GLN 679				activated
					100.00 percent
Line			14.150	3.600	1.450 PG
			14.150	7.100	1.450
	GLN 678				activated
					100.00 percent
Line			14.150	7.100	1.450 PG
			14.150	10.600	1.450
	GLN 677				activated
					100.00 percent
Line			14.150	10.600	1.450 PG
			14.150	14.100	1.450
	GLN 667				activated
					100.00 percent
Line			14.150	14.100	1.450 PG
			14.150	17.600	1.450
	GLN 680				activated
					100.00 percent
Line			14.150	17.600	1.450 PG
			14.150	21.100	1.450
	GLN 675				activated
					100.00 percent
Line			14.150	21.100	1.450 PG
			14.150	24.600	1.450
	GLN 676				activated
					100.00 percent

Calculation of forces and moments

Loads

Kind	Referenceto	Projection	Coordinates	Type	Loadvalue
		W[m]	X[m]	Y[m]	Z[m]
Line			14.150	24.600	1.450 PG
			14.150	28.700	1.450
	GLN	674		activated	100.00 percent

Loads

Kind	Referenceto	Projection	Coordinates	Type	Loadvalue
		W[m]	X[m]	Y[m]	Z[m]
Line			0.150	0.000	2.450 PG
			0.150	3.600	2.450
	GLN	688		activated	100.00 percent
Line			0.150	3.600	2.450 PG
			0.150	7.100	2.450
	GLN	687		activated	100.00 percent
Line			0.150	7.100	2.450 PG
			0.150	10.600	2.450
	GLN	681		activated	100.00 percent
Line			0.150	10.600	2.450 PG
			0.150	14.100	2.450
	GLN	682		activated	100.00 percent
Line			0.150	14.100	2.450 PG
			0.150	17.600	2.450
	GLN	683		activated	100.00 percent
Line			0.150	17.600	2.450 PG
			0.150	21.100	2.450
	GLN	684		activated	100.00 percent
Line			0.150	21.100	2.450 PG
			0.150	24.600	2.450
	GLN	685		activated	100.00 percent
Line			0.150	24.600	2.450 PG
			0.150	28.700	2.450
	GLN	686		activated	100.00 percent
Line			1.550	24.600	2.350 PG
			1.550	28.700	2.350
	GLN	608		activated	100.00 percent
Line			1.550	21.100	2.350 PG
			1.550	24.600	2.350
	GLN	607		activated	100.00 percent
Line			1.550	17.600	2.350 PG
			1.550	21.100	2.350
	GLN	606		activated	100.00 percent
Line			1.550	14.100	2.350 PG
			1.550	17.600	2.350
	GLN	605		activated	100.00 percent
Line			1.550	10.600	2.350 PG
			1.550	14.100	2.350
	GLN	604		activated	100.00 percent
Line			1.550	7.100	2.350 PG
			1.550	10.600	2.350
	GLN	603		activated	100.00 percent
Line			1.550	3.600	2.350 PG
			1.550	7.100	2.350
	GLN	602		activated	100.00 percent
Line			1.550	0.000	2.350 PG
			1.550	3.600	2.350
	GLN	601		activated	100.00 percent
Line			2.950	0.000	2.250 PG
			2.950	3.600	2.250

Calculation of forces and moments

Loads

Kind	Referenceto	Projection	Coordinates	Type	Loadvalue
		W[m]	X[m]	Y[m]	Z[m]
Line	GLN 615			activated	100.00 percent
			2.950	3.600	2.250 PG
			2.950	7.100	2.250
					0.70 [kN/m]
					0.70 [kN/m]
Line	GLN 618			activated	100.00 percent
			2.950	7.100	2.250 PG
			2.950	10.600	2.250
					0.70 [kN/m]
					0.70 [kN/m]
Line	GLN 619			activated	100.00 percent
			2.950	10.600	2.250 PG
			2.950	14.100	2.250
					0.70 [kN/m]
					0.70 [kN/m]
Line	GLN 616			activated	100.00 percent
			2.950	14.100	2.250 PG
			2.950	17.600	2.250
					0.70 [kN/m]
					0.70 [kN/m]
Line	GLN 614			activated	100.00 percent
			2.950	17.600	2.250 PG
			2.950	21.100	2.250
					0.70 [kN/m]
					0.70 [kN/m]
Line	GLN 617			activated	100.00 percent
			2.950	21.100	2.250 PG
			2.950	24.600	2.250
					0.70 [kN/m]
					0.70 [kN/m]
Line	GLN 620			activated	100.00 percent
			2.950	24.600	2.250 PG
			2.950	28.700	2.250
					0.70 [kN/m]
					0.70 [kN/m]
Line	GLN 612			activated	100.00 percent
			4.350	24.600	2.150 PG
			4.350	28.700	2.150
					0.70 [kN/m]
					0.70 [kN/m]
Line	GLN 624			activated	100.00 percent
			4.350	21.100	2.150 PG
			4.350	24.600	2.150
					0.70 [kN/m]
					0.70 [kN/m]
Line	GLN 623			activated	100.00 percent
			4.350	17.600	2.150 PG
			4.350	21.100	2.150
					0.70 [kN/m]
					0.70 [kN/m]
Line	GLN 622			activated	100.00 percent
			4.350	14.100	2.150 PG
			4.350	17.600	2.150
					0.70 [kN/m]
					0.70 [kN/m]
Line	GLN 621			activated	100.00 percent
			4.350	10.600	2.150 PG
			4.350	14.100	2.150
					0.70 [kN/m]
					0.70 [kN/m]
Line	GLN 613			activated	100.00 percent
			4.350	7.100	2.150 PG
			4.350	10.600	2.150
					0.70 [kN/m]
					0.70 [kN/m]
Line	GLN 611			activated	100.00 percent
			4.350	3.600	2.150 PG
			4.350	7.100	2.150
					0.70 [kN/m]
					0.70 [kN/m]
Line	GLN 609			activated	100.00 percent
			4.350	0.000	2.150 PG
			4.350	3.600	2.150
					0.70 [kN/m]
					0.70 [kN/m]
Line	GLN 610			activated	100.00 percent
			5.750	0.000	2.050 PG
			5.750	3.600	2.050
					0.70 [kN/m]
					0.70 [kN/m]
Line	GLN 625			activated	100.00 percent
			5.750	3.600	2.050 PG
			5.750	7.100	2.050
					0.70 [kN/m]
					0.70 [kN/m]
Line	GLN 633			activated	100.00 percent
			5.750	7.100	2.050 PG
			5.750	10.600	2.050
					0.70 [kN/m]
					0.70 [kN/m]
Line	GLN 632			activated	100.00 percent
			5.750	10.600	2.050 PG
			5.750	14.100	2.050
					0.70 [kN/m]
					0.70 [kN/m]

Calculation of forces and moments

Loads

Kind	Referenceto	Projection	Coordinates	Type	Loadvalue
		W[m]	X[m]	Y[m]	Z[m]
Line	GLN 626			activated	100.00 percent
			5.750	14.100	2.050 PG
			5.750	17.600	2.050
					0.70 [kN/m]
					0.70 [kN/m]
Line	GLN 631			activated	100.00 percent
			5.750	17.600	2.050 PG
			5.750	21.100	2.050
					0.70 [kN/m]
					0.70 [kN/m]
Line	GLN 628			activated	100.00 percent
			5.750	21.100	2.050 PG
			5.750	24.600	2.050
					0.70 [kN/m]
					0.70 [kN/m]
Line	GLN 629			activated	100.00 percent
			5.750	24.600	2.050 PG
			5.750	28.700	2.050
					0.70 [kN/m]
					0.70 [kN/m]
Line	GLN 630			activated	100.00 percent
			7.150	24.600	1.950 PG
			7.150	28.700	1.950
					0.70 [kN/m]
					0.70 [kN/m]
Line	GLN 641			activated	100.00 percent
			7.150	21.100	1.950 PG
			7.150	24.600	1.950
					0.70 [kN/m]
					0.70 [kN/m]
Line	GLN 634			activated	100.00 percent
			7.150	17.600	1.950 PG
			7.150	21.100	1.950
					0.70 [kN/m]
					0.70 [kN/m]
Line	GLN 635			activated	100.00 percent
			7.150	14.100	1.950 PG
			7.150	17.600	1.950
					0.70 [kN/m]
					0.70 [kN/m]
Line	GLN 636			activated	100.00 percent
			7.150	10.600	1.950 PG
			7.150	14.100	1.950
					0.70 [kN/m]
					0.70 [kN/m]
Line	GLN 637			activated	100.00 percent
			7.150	7.100	1.950 PG
			7.150	10.600	1.950
					0.70 [kN/m]
					0.70 [kN/m]
Line	GLN 638			activated	100.00 percent
			7.150	3.600	1.950 PG
			7.150	7.100	1.950
					0.70 [kN/m]
					0.70 [kN/m]
Line	GLN 640			activated	100.00 percent
			7.150	0.000	1.950 PG
			7.150	3.600	1.950
					0.70 [kN/m]
					0.70 [kN/m]
Line	GLN 639			activated	100.00 percent
			8.550	0.000	1.850 PG
			8.550	3.600	1.850
					0.70 [kN/m]
					0.70 [kN/m]
Line	GLN 642			activated	100.00 percent
			8.550	3.600	1.850 PG
			8.550	7.100	1.850
					0.70 [kN/m]
					0.70 [kN/m]
Line	GLN 627			activated	100.00 percent
			8.550	7.100	1.850 PG
			8.550	10.600	1.850
					0.70 [kN/m]
					0.70 [kN/m]
Line	GLN 649			activated	100.00 percent
			8.550	10.600	1.850 PG
			8.550	14.100	1.850
					0.70 [kN/m]
					0.70 [kN/m]
Line	GLN 648			activated	100.00 percent
			8.550	14.100	1.850 PG
			8.550	17.600	1.850
					0.70 [kN/m]
					0.70 [kN/m]
Line	GLN 647			activated	100.00 percent
			8.550	17.600	1.850 PG
			8.550	21.100	1.850
					0.70 [kN/m]
					0.70 [kN/m]
Line	GLN 646			activated	100.00 percent
			8.550	21.100	1.850 PG
			8.550	24.600	1.850
					0.70 [kN/m]
					0.70 [kN/m]

Calculation of forces and moments

Loads

Kind	Referenceto	Projection	Coordinates	Type	Loadvalue
		W[m]	X[m]	Y[m]	Z[m]
Line	GLN 645			activated	100.00 percent
			8.550	24.600	1.850 PG
			8.550	28.700	1.850
					0.70 [kN/m]
					0.70 [kN/m]
Line	GLN 644			activated	100.00 percent
			9.950	24.600	1.750 PG
			9.950	28.700	1.750
					0.70 [kN/m]
					0.70 [kN/m]
Line	GLN 656			activated	100.00 percent
			9.950	21.100	1.750 PG
			9.950	24.600	1.750
					0.70 [kN/m]
					0.70 [kN/m]
Line	GLN 655			activated	100.00 percent
			9.950	17.600	1.750 PG
			9.950	21.100	1.750
					0.70 [kN/m]
					0.70 [kN/m]
Line	GLN 654			activated	100.00 percent
			9.950	14.100	1.750 PG
			9.950	17.600	1.750
					0.70 [kN/m]
					0.70 [kN/m]
Line	GLN 653			activated	100.00 percent
			9.950	10.600	1.750 PG
			9.950	14.100	1.750
					0.70 [kN/m]
					0.70 [kN/m]
Line	GLN 652			activated	100.00 percent
			9.950	7.100	1.750 PG
			9.950	10.600	1.750
					0.70 [kN/m]
					0.70 [kN/m]
Line	GLN 643			activated	100.00 percent
			9.950	3.600	1.750 PG
			9.950	7.100	1.750
					0.70 [kN/m]
					0.70 [kN/m]
Line	GLN 650			activated	100.00 percent
			9.950	0.000	1.750 PG
			9.950	3.600	1.750
					0.70 [kN/m]
					0.70 [kN/m]
Line	GLN 651			activated	100.00 percent
			11.350	0.000	1.650 PG
			11.350	3.600	1.650
					0.70 [kN/m]
					0.70 [kN/m]
Line	GLN 664			activated	100.00 percent
			11.350	3.600	1.650 PG
			11.350	7.100	1.650
					0.70 [kN/m]
					0.70 [kN/m]
Line	GLN 660			activated	100.00 percent
			11.350	7.100	1.650 PG
			11.350	10.600	1.650
					0.70 [kN/m]
					0.70 [kN/m]
Line	GLN 661			activated	100.00 percent
			11.350	10.600	1.650 PG
			11.350	14.100	1.650
					0.70 [kN/m]
					0.70 [kN/m]
Line	GLN 659			activated	100.00 percent
			11.350	14.100	1.650 PG
			11.350	17.600	1.650
					0.70 [kN/m]
					0.70 [kN/m]
Line	GLN 658			activated	100.00 percent
			11.350	17.600	1.650 PG
			11.350	21.100	1.650
					0.70 [kN/m]
					0.70 [kN/m]
Line	GLN 657			activated	100.00 percent
			11.350	21.100	1.650 PG
			11.350	24.600	1.650
					0.70 [kN/m]
					0.70 [kN/m]
Line	GLN 663			activated	100.00 percent
			11.350	24.600	1.650 PG
			11.350	28.700	1.650
					0.70 [kN/m]
					0.70 [kN/m]
Line	GLN 662			activated	100.00 percent
			12.750	24.600	1.550 PG
			12.750	28.700	1.550
					0.70 [kN/m]
					0.70 [kN/m]
Line	GLN 665			activated	100.00 percent
			12.750	21.100	1.550 PG
			12.750	24.600	1.550
					0.70 [kN/m]
					0.70 [kN/m]

Calculation of forces and moments

Loads

Kind	Reference	to	Projection	Coordinates	Type	Loadvalue
			W[m]	X[m]	Y[m]	Z[m]
Line	GLN	672				activated
				12.750	17.600	1.550 PG
				12.750	21.100	1.550
						100.00 percent
						0.70 [kN/m]
						0.70 [kN/m]
Line	GLN	669				activated
				12.750	14.100	1.550 PG
				12.750	17.600	1.550
						100.00 percent
						0.70 [kN/m]
						0.70 [kN/m]
Line	GLN	670				activated
				12.750	10.600	1.550 PG
				12.750	14.100	1.550
						100.00 percent
						0.70 [kN/m]
						0.70 [kN/m]
Line	GLN	668				activated
				12.750	7.100	1.550 PG
				12.750	10.600	1.550
						100.00 percent
						0.70 [kN/m]
						0.70 [kN/m]
Line	GLN	666				activated
				12.750	3.600	1.550 PG
				12.750	7.100	1.550
						100.00 percent
						0.70 [kN/m]
						0.70 [kN/m]
Line	GLN	671				activated
				12.750	0.000	1.550 PG
				12.750	3.600	1.550
						100.00 percent
						0.70 [kN/m]
						0.70 [kN/m]
Line	GLN	673				activated
				14.150	0.000	1.450 PG
				14.150	3.600	1.450
						100.00 percent
						0.70 [kN/m]
						0.70 [kN/m]
Line	GLN	679				activated
				14.150	3.600	1.450 PG
				14.150	7.100	1.450
						100.00 percent
						0.70 [kN/m]
						0.70 [kN/m]
Line	GLN	678				activated
				14.150	7.100	1.450 PG
				14.150	10.600	1.450
						100.00 percent
						0.70 [kN/m]
						0.70 [kN/m]
Line	GLN	677				activated
				14.150	10.600	1.450 PG
				14.150	14.100	1.450
						100.00 percent
						0.70 [kN/m]
						0.70 [kN/m]
Line	GLN	667				activated
				14.150	14.100	1.450 PG
				14.150	17.600	1.450
						100.00 percent
						0.70 [kN/m]
						0.70 [kN/m]
Line	GLN	680				activated
				14.150	17.600	1.450 PG
				14.150	21.100	1.450
						100.00 percent
						0.70 [kN/m]
						0.70 [kN/m]
Line	GLN	675				activated
				14.150	21.100	1.450 PG
				14.150	24.600	1.450
						100.00 percent
						0.70 [kN/m]
						0.70 [kN/m]
Line	GLN	676				activated
				14.150	24.600	1.450 PG
				14.150	28.700	1.450
						100.00 percent
						0.70 [kN/m]
						0.70 [kN/m]
	GLN	674				activated
						100.00 percent

Load Case 4 (W) ANEMOS 0

Factor forces and moments	1.000
Factor dead weight DL-XX	0.000
Factor dead weight DL-YY	0.000
Factor dead weight DL-ZZ	0.000
unfavourable safety factor	1.500
favourable safety factor	0.000
Combination coefficient $\psi-0$	0.600 (rare)
Combination coefficient $\psi-1'$	1.000 (non frequent)
Combination coefficient $\psi-1$	0.200 (frequent)
Combination coefficient $\psi-2$	0.000 (permanent)

Calculation of forces and moments

Loads

Kind	Referenceto	Projection	Coordinates	Type	Loadvalue
		W[m]	X[m]	Y[m]	Z[m]
Line			14.150	0.000	0.950
			14.150	0.000	-3.000
	GLN	201		activated	100.00 percent
Line			14.150	28.700	0.950
			14.150	28.700	-3.000
	GLN	209		activated	100.00 percent
Line			14.150	3.600	0.950
			14.150	3.600	-3.000
	GLN	202		activated	100.00 percent
Line			14.150	7.100	0.950
			14.150	7.100	-3.000
	GLN	203		activated	100.00 percent
Line			14.150	10.600	0.950
			14.150	10.600	-3.000
	GLN	207		activated	100.00 percent
Line			14.150	14.100	0.950
			14.150	14.100	-3.000
	GLN	206		activated	100.00 percent
Line			14.150	17.600	0.950
			14.150	17.600	-3.000
	GLN	205		activated	100.00 percent
Line			14.150	21.100	0.950
			14.150	21.100	-3.000
	GLN	204		activated	100.00 percent
Line			14.150	24.600	0.950
			14.150	24.600	-3.000
	GLN	208		activated	100.00 percent
Line			0.000	3.600	2.461
			0.000	3.600	0.000
	GLN	2		activated	100.00 percent
Line			0.000	7.100	2.461
			0.000	7.100	0.000
	GLN	3		activated	100.00 percent
Line			0.000	10.600	2.461
			0.000	10.600	0.000
	GLN	7		activated	100.00 percent
Line			0.000	14.100	2.461
			0.000	14.100	0.000
	GLN	6		activated	100.00 percent
Line			0.000	17.600	2.461
			0.000	17.600	0.000
	GLN	5		activated	100.00 percent
Line			0.000	21.100	2.461
			0.000	21.100	0.000
	GLN	4		activated	100.00 percent
Line			0.000	24.600	2.461
			0.000	24.600	0.000
	GLN	8		activated	100.00 percent
Line			0.000	0.000	2.461
			0.000	0.000	0.000
	GLN	1		activated	100.00 percent
Line			0.000	28.700	2.461
			0.000	28.700	0.000
	GLN	9		activated	100.00 percent
Line			14.150	0.000	0.950
			14.150	0.000	-3.000
	GLN	201		activated	100.00 percent

Calculation of forces and moments

Loads

Kind	Reference	to	Projection	Coordinates	Type	Loadvalue
			W[m]	X[m]	Y[m]	Z[m]
Line				14.150	28.700	0.950
				14.150	28.700	-3.000
	GLN	209				activated
						100.00 percent
Line				9.450	28.700	0.950
				9.450	28.700	-3.000
	GLN	213				activated
						100.00 percent
Line				4.750	28.700	0.950
				4.750	28.700	-3.000
	GLN	212				activated
						100.00 percent
Line				9.450	0.000	0.950
				9.450	0.000	-3.000
	GLN	210				activated
						100.00 percent
Line				4.750	0.000	0.950
				4.750	0.000	-3.000
	GLN	211				activated
						100.00 percent
Line				14.150	0.000	1.450
				14.150	3.600	1.450
	GLN	679				activated
						100.00 percent
Line				14.150	3.600	1.450
				14.150	7.100	1.450
	GLN	678				activated
						100.00 percent
Line				14.150	7.100	1.450
				14.150	10.600	1.450
	GLN	677				activated
						100.00 percent
Line				14.150	10.600	1.450
				14.150	14.100	1.450
	GLN	667				activated
						100.00 percent
Line				14.150	14.100	1.450
				14.150	17.600	1.450
	GLN	680				activated
						100.00 percent
Line				14.150	17.600	1.450
				14.150	21.100	1.450
	GLN	675				activated
						100.00 percent
Line				14.150	21.100	1.450
				14.150	24.600	1.450
	GLN	676				activated
						100.00 percent
Line				14.150	24.600	1.450
				14.150	28.700	1.450
	GLN	674				activated
						100.00 percent
Line				12.750	0.000	1.550
				12.750	3.600	1.550
	GLN	673				activated
						100.00 percent
Line				12.750	3.600	1.550
				12.750	7.100	1.550
	GLN	671				activated
						100.00 percent
Line				12.750	7.100	1.550
				12.750	10.600	1.550
	GLN	666				activated
						100.00 percent
Line				12.750	10.600	1.550
				12.750	14.100	1.550
	GLN	668				activated
						100.00 percent
Line				12.750	14.100	1.550
				12.750	17.600	1.550
	GLN	670				activated
						100.00 percent
Line				12.750	17.600	1.550
				12.750	21.100	1.550
	GLN	669				activated
						100.00 percent

Calculation of forces and moments

Loads

Kind	Referenceto	Projection	Coordinates	Type	Loadvalue
		W[m]	X[m]	Y[m]	Z[m]
Line			12.750	21.100	1.550 PG
			12.750	24.600	1.550
	GLN	672			activated
					100.00 percent
Line			12.750	24.600	1.550 PG
			12.750	28.700	1.550
	GLN	665			activated
					100.00 percent
Line			11.350	24.600	1.650 PG
			11.350	28.700	1.650
	GLN	662			activated
					100.00 percent
Line			11.350	21.100	1.650 PG
			11.350	24.600	1.650
	GLN	663			activated
					100.00 percent
Line			11.350	17.600	1.650 PG
			11.350	21.100	1.650
	GLN	657			activated
					100.00 percent
Line			11.350	14.100	1.650 PG
			11.350	17.600	1.650
	GLN	658			activated
					100.00 percent
Line			11.350	10.600	1.650 PG
			11.350	14.100	1.650
	GLN	659			activated
					100.00 percent
Line			11.350	7.100	1.650 PG
			11.350	10.600	1.650
	GLN	661			activated
					100.00 percent
Line			11.350	3.600	1.650 PG
			11.350	7.100	1.650
	GLN	660			activated
					100.00 percent
Line			11.350	0.000	1.650 PG
			11.350	3.600	1.650
	GLN	664			activated
					100.00 percent
Line			9.950	0.000	1.750 PG
			9.950	3.600	1.750
	GLN	651			activated
					100.00 percent
Line			9.950	3.600	1.750 PG
			9.950	7.100	1.750
	GLN	650			activated
					100.00 percent
Line			9.950	7.100	1.750 PG
			9.950	10.600	1.750
	GLN	643			activated
					100.00 percent
Line			9.950	10.600	1.750 PG
			9.950	14.100	1.750
	GLN	652			activated
					100.00 percent
Line			9.950	14.100	1.750 PG
			9.950	17.600	1.750
	GLN	653			activated
					100.00 percent
Line			9.950	17.600	1.750 PG
			9.950	21.100	1.750
	GLN	654			activated
					100.00 percent
Line			9.950	21.100	1.750 PG
			9.950	24.600	1.750
	GLN	655			activated
					100.00 percent
Line			9.950	24.600	1.750 PG
			9.950	28.700	1.750
	GLN	656			activated
					100.00 percent
Line			8.550	24.600	1.850 PG
			8.550	28.700	1.850
	GLN	644			activated
					100.00 percent

Calculation of forces and moments

Loads

Kind	Referenceto	Projection	Coordinates	Type	Loadvalue
		W[m]	X[m]	Y[m]	Z[m]
Line			8.550	21.100	1.850 PG
			8.550	24.600	1.850
	GLN	645			activated
					100.00 percent
Line			8.550	17.600	1.850 PG
			8.550	21.100	1.850
	GLN	646			activated
					100.00 percent
Line			8.550	14.100	1.850 PG
			8.550	17.600	1.850
	GLN	647			activated
					100.00 percent
Line			8.550	10.600	1.850 PG
			8.550	14.100	1.850
	GLN	648			activated
					100.00 percent
Line			8.550	7.100	1.850 PG
			8.550	10.600	1.850
	GLN	649			activated
					100.00 percent
Line			8.550	3.600	1.850 PG
			8.550	7.100	1.850
	GLN	627			activated
					100.00 percent
Line			8.550	0.000	1.850 PG
			8.550	3.600	1.850
	GLN	642			activated
					100.00 percent
Line			7.150	0.000	1.950 PG
			7.150	3.600	1.950
	GLN	639			activated
					100.00 percent
Line			7.150	3.600	1.950 PG
			7.150	7.100	1.950
	GLN	640			activated
					100.00 percent
Line			7.150	7.100	1.950 PG
			7.150	10.600	1.950
	GLN	638			activated
					100.00 percent
Line			7.150	10.600	1.950 PG
			7.150	14.100	1.950
	GLN	637			activated
					100.00 percent
Line			7.150	14.100	1.950 PG
			7.150	17.600	1.950
	GLN	636			activated
					100.00 percent
Line			7.150	17.600	1.950 PG
			7.150	21.100	1.950
	GLN	635			activated
					100.00 percent
Line			7.150	21.100	1.950 PG
			7.150	24.600	1.950
	GLN	634			activated
					100.00 percent
Line			7.150	24.600	1.950 PG
			7.150	28.700	1.950
	GLN	641			activated
					100.00 percent
Line			5.750	24.600	2.050 PG
			5.750	28.700	2.050
	GLN	630			activated
					100.00 percent
Line			5.750	21.100	2.050 PG
			5.750	24.600	2.050
	GLN	629			activated
					100.00 percent
Line			5.750	17.600	2.050 PG
			5.750	21.100	2.050
	GLN	628			activated
					100.00 percent
Line			5.750	14.100	2.050 PG
			5.750	17.600	2.050
	GLN	631			activated
					100.00 percent

Calculation of forces and moments

Loads

Kind	Referenceto	Projection	Coordinates	Type	Loadvalue
		W[m]	X[m]	Y[m]	Z[m]
Line			5.750	10.600	2.050 PG
			5.750	14.100	2.050
	GLN 626			activated	100.00 percent
Line			5.750	7.100	2.050 PG
			5.750	10.600	2.050
	GLN 632			activated	100.00 percent
Line			5.750	3.600	2.050 PG
			5.750	7.100	2.050
	GLN 633			activated	100.00 percent
Line			5.750	0.000	2.050 PG
			5.750	3.600	2.050
	GLN 625			activated	100.00 percent
Line			4.350	0.000	2.150 PG
			4.350	3.600	2.150
	GLN 610			activated	100.00 percent
Line			4.350	3.600	2.150 PG
			4.350	7.100	2.150
	GLN 609			activated	100.00 percent
Line			4.350	7.100	2.150 PG
			4.350	10.600	2.150
	GLN 611			activated	100.00 percent
Line			4.350	10.600	2.150 PG
			4.350	14.100	2.150
	GLN 613			activated	100.00 percent
Line			4.350	14.100	2.150 PG
			4.350	17.600	2.150
	GLN 621			activated	100.00 percent
Line			4.350	17.600	2.150 PG
			4.350	21.100	2.150
	GLN 622			activated	100.00 percent
Line			4.350	21.100	2.150 PG
			4.350	24.600	2.150
	GLN 623			activated	100.00 percent
Line			4.350	24.600	2.150 PG
			4.350	28.700	2.150
	GLN 624			activated	100.00 percent
Line			2.950	24.600	2.250 PG
			2.950	28.700	2.250
	GLN 612			activated	100.00 percent
Line			2.950	21.100	2.250 PG
			2.950	24.600	2.250
	GLN 620			activated	100.00 percent
Line			2.950	17.600	2.250 PG
			2.950	21.100	2.250
	GLN 617			activated	100.00 percent
Line			2.950	14.100	2.250 PG
			2.950	17.600	2.250
	GLN 614			activated	100.00 percent
Line			2.950	10.600	2.250 PG
			2.950	14.100	2.250
	GLN 616			activated	100.00 percent
Line			2.950	7.100	2.250 PG
			2.950	10.600	2.250
	GLN 619			activated	100.00 percent
Line			2.950	3.600	2.250 PG
			2.950	7.100	2.250
	GLN 618			activated	100.00 percent

Calculation of forces and moments

Loads

Kind	Reference	to	Projection	Coordinates	Type	Loadvalue
			W[m]	X[m]	Y[m]	Z[m]
Line				2.950	0.000	2.250 PG
				2.950	3.600	2.250
	GLN	615				activated
						100.00 percent
Line				1.550	0.000	2.350 PG
				1.550	3.600	2.350
	GLN	601				activated
						100.00 percent
Line				1.550	3.600	2.350 PG
				1.550	7.100	2.350
	GLN	602				activated
						100.00 percent
Line				1.550	7.100	2.350 PG
				1.550	10.600	2.350
	GLN	603				activated
						100.00 percent
Line				1.550	10.600	2.350 PG
				1.550	14.100	2.350
	GLN	604				activated
						100.00 percent
Line				1.550	14.100	2.350 PG
				1.550	17.600	2.350
	GLN	605				activated
						100.00 percent
Line				1.550	17.600	2.350 PG
				1.550	21.100	2.350
	GLN	606				activated
						100.00 percent
Line				1.550	21.100	2.350 PG
				1.550	24.600	2.350
	GLN	607				activated
						100.00 percent
Line				1.550	24.600	2.350 PG
				1.550	28.700	2.350
	GLN	608				activated
						100.00 percent
Line				0.150	24.600	2.450 PG
				0.150	28.700	2.450
	GLN	686				activated
						100.00 percent
Line				0.150	21.100	2.450 PG
				0.150	24.600	2.450
	GLN	685				activated
						100.00 percent
Line				0.150	17.600	2.450 PG
				0.150	21.100	2.450
	GLN	684				activated
						100.00 percent
Line				0.150	14.100	2.450 PG
				0.150	17.600	2.450
	GLN	683				activated
						100.00 percent
Line				0.150	10.600	2.450 PG
				0.150	14.100	2.450
	GLN	682				activated
						100.00 percent
Line				0.150	7.100	2.450 PG
				0.150	10.600	2.450
	GLN	681				activated
						100.00 percent
Line				0.150	3.600	2.450 PG
				0.150	7.100	2.450
	GLN	687				activated
						100.00 percent
Line				0.150	0.000	2.450 PG
				0.150	3.600	2.450
	GLN	688				activated
						100.00 percent

Calculation of forces and moments

Load Case 5 (W) ANEMOS 90

Factor forces and moments	1.000
Factor dead weight DL-XX	0.000
Factor dead weight DL-YY	0.000
Factor dead weight DL-ZZ	0.000
unfavourable safety factor	1.500
favourable safety factor	0.000
Combination coefficient ψ -0	0.600 (rare)
Combination coefficient ψ -1'	1.000 (non frequent)
Combination coefficient ψ -1	0.200 (frequent)
Combination coefficient ψ -2	0.000 (permanent)

Loads

Kind	Referenceto	Projection Coordinates	Type	Loadvalue
		W[m] X[m] Y[m] Z[m]		
Line		4.750 0.000 0.950	PYY	3.50 [kN/m]
		4.750 0.000 -3.000		3.50 [kN/m]
	GLN 211		activated	100.00 percent
Line		9.450 0.000 0.950	PYY	3.50 [kN/m]
		9.450 0.000 -3.000		3.50 [kN/m]
	GLN 210		activated	100.00 percent
Line		14.150 0.000 0.950	PYY	1.70 [kN/m]
		14.150 0.000 -3.000		1.70 [kN/m]
	GLN 201		activated	100.00 percent
Line		14.150 28.700 0.950	PYY	0.85 [kN/m]
		14.150 28.700 -3.000		0.85 [kN/m]
	GLN 209		activated	100.00 percent
Line		9.450 28.700 0.950	PYY	1.60 [kN/m]
		9.450 28.700 -3.000		1.60 [kN/m]
	GLN 213		activated	100.00 percent
Line		4.750 28.700 0.950	PYY	1.60 [kN/m]
		4.750 28.700 -3.000		1.60 [kN/m]
	GLN 212		activated	100.00 percent
Line		14.150 3.600 0.950	PXX	3.30 [kN/m]
		14.150 3.600 -3.000		3.30 [kN/m]
	GLN 202		activated	100.00 percent
Line		14.150 7.100 0.950	PXX	3.30 [kN/m]
		14.150 7.100 -3.000		3.30 [kN/m]
	GLN 203		activated	100.00 percent
Line		14.150 10.600 0.950	PXX	3.30 [kN/m]
		14.150 10.600 -3.000		3.30 [kN/m]
	GLN 207		activated	100.00 percent
Line		14.150 0.000 0.950	PXX	1.60 [kN/m]
		14.150 0.000 -3.000		1.60 [kN/m]
	GLN 201		activated	100.00 percent
Line		14.150 14.100 0.950	PXX	2.10 [kN/m]
		14.150 14.100 -3.000		2.10 [kN/m]
	GLN 206		activated	100.00 percent
Line		14.150 17.600 0.950	PXX	2.10 [kN/m]
		14.150 17.600 -3.000		2.10 [kN/m]
	GLN 205		activated	100.00 percent
Line		14.150 21.100 0.950	PXX	2.10 [kN/m]
		14.150 21.100 -3.000		2.10 [kN/m]
	GLN 204		activated	100.00 percent
Line		14.150 24.600 0.950	PXX	2.10 [kN/m]
		14.150 24.600 -3.000		2.10 [kN/m]
	GLN 208		activated	100.00 percent
Line		14.150 28.700 0.950	PXX	1.00 [kN/m]
		14.150 28.700 -3.000		1.00 [kN/m]
	GLN 209		activated	100.00 percent

Calculation of forces and moments

Loads

Kind	Referenceto	Projection	Coordinates	Type	Loadvalue
		W[m]	X[m]	Y[m]	Z[m]
Line			0.000	28.700	2.461
			0.000	28.700	0.000
	GLN	9			activated
					100.00 percent
Line			0.000	24.600	2.461
			0.000	24.600	0.000
	GLN	8			activated
					100.00 percent
Line			0.000	21.100	2.461
			0.000	21.100	0.000
	GLN	4			activated
					100.00 percent
Line			0.000	17.600	2.461
			0.000	17.600	0.000
	GLN	5			activated
					100.00 percent
Line			0.000	14.100	2.461
			0.000	14.100	0.000
	GLN	6			activated
					100.00 percent
Line			0.000	10.600	2.461
			0.000	10.600	0.000
	GLN	7			activated
					100.00 percent
Line			0.000	7.100	2.461
			0.000	7.100	0.000
	GLN	3			activated
					100.00 percent
Line			0.000	3.600	2.461
			0.000	3.600	0.000
	GLN	2			activated
					100.00 percent
Line			0.000	0.000	2.461
			0.000	0.000	0.000
	GLN	1			activated
					100.00 percent
Line			14.150	0.000	1.450
			14.150	3.600	1.450
	GLN	679			activated
					100.00 percent
Line			12.750	0.000	1.550
			12.750	3.600	1.550
	GLN	673			activated
					100.00 percent
Line			11.350	0.000	1.650
			11.350	3.600	1.650
	GLN	664			activated
					100.00 percent
Line			9.950	0.000	1.750
			9.950	3.600	1.750
	GLN	651			activated
					100.00 percent
Line			8.550	0.000	1.850
			8.550	3.600	1.850
	GLN	642			activated
					100.00 percent
Line			7.150	0.000	1.950
			7.150	3.600	1.950
	GLN	639			activated
					100.00 percent
Line			5.750	0.000	2.050
			5.750	3.600	2.050
	GLN	625			activated
					100.00 percent
Line			4.350	0.000	2.150
			4.350	3.600	2.150
	GLN	610			activated
					100.00 percent
Line			2.950	0.000	2.250
			2.950	3.600	2.250
	GLN	615			activated
					100.00 percent
Line			1.550	0.000	2.350
			1.550	3.600	2.350
	GLN	601			activated
					100.00 percent

Calculation of forces and moments

Loads

Kind	Referenceto	Projection	Coordinates	Type	Loadvalue
		W[m]	X[m]	Y[m]	Z[m]
Line			0.150	0.000	2.450 PG
			0.150	3.600	2.450
	GLN 688			activated	100.00 percent
Line			14.150	3.600	1.450 PG
			14.150	7.100	1.450
	GLN 678			activated	100.00 percent
Line			12.750	3.600	1.550 PG
			12.750	7.100	1.550
	GLN 671			activated	100.00 percent
Line			11.350	3.600	1.650 PG
			11.350	7.100	1.650
	GLN 660			activated	100.00 percent
Line			9.950	3.600	1.750 PG
			9.950	7.100	1.750
	GLN 650			activated	100.00 percent
Line			8.550	3.600	1.850 PG
			8.550	7.100	1.850
	GLN 627			activated	100.00 percent
Line			7.150	3.600	1.950 PG
			7.150	7.100	1.950
	GLN 640			activated	100.00 percent
Line			5.750	3.600	2.050 PG
			5.750	7.100	2.050
	GLN 633			activated	100.00 percent
Line			4.350	3.600	2.150 PG
			4.350	7.100	2.150
	GLN 609			activated	100.00 percent
Line			2.950	3.600	2.250 PG
			2.950	7.100	2.250
	GLN 618			activated	100.00 percent
Line			1.550	3.600	2.350 PG
			1.550	7.100	2.350
	GLN 602			activated	100.00 percent
Line			0.150	3.600	2.450 PG
			0.150	7.100	2.450
	GLN 687			activated	100.00 percent
Line			0.150	7.100	2.450 PG
			0.150	10.600	2.450
	GLN 681			activated	100.00 percent
Line			1.550	7.100	2.350 PG
			1.550	10.600	2.350
	GLN 603			activated	100.00 percent
Line			2.950	7.100	2.250 PG
			2.950	10.600	2.250
	GLN 619			activated	100.00 percent
Line			4.350	7.100	2.150 PG
			4.350	10.600	2.150
	GLN 611			activated	100.00 percent
Line			5.750	7.100	2.050 PG
			5.750	10.600	2.050
	GLN 632			activated	100.00 percent
Line			7.150	7.100	1.950 PG
			7.150	10.600	1.950
	GLN 638			activated	100.00 percent
Line			8.550	7.100	1.850 PG
			8.550	10.600	1.850
	GLN 649			activated	100.00 percent

Calculation of forces and moments

Loads

Kind	Referenceto	Projection	Coordinates				Type	Loadvalue
		W[m]	X[m]	Y[m]	Z[m]			
Line			9.950	7.100	1.750	PG	-1.34	[kN/m]
			9.950	10.600	1.750		-1.34	[kN/m]
	GLN 643					activated	100.00	percent
Line			11.350	7.100	1.650	PG	-1.34	[kN/m]
			11.350	10.600	1.650		-1.34	[kN/m]
	GLN 661					activated	100.00	percent
Line			12.750	7.100	1.550	PG	-1.34	[kN/m]
			12.750	10.600	1.550		-1.34	[kN/m]
	GLN 666					activated	100.00	percent
Line			14.150	7.100	1.450	PG	-1.34	[kN/m]
			14.150	10.600	1.450		-1.34	[kN/m]
	GLN 677					activated	100.00	percent
Line			14.150	10.600	1.450	PG	-1.34	[kN/m]
			14.150	14.100	1.450		-1.34	[kN/m]
	GLN 667					activated	100.00	percent
Line			12.750	10.600	1.550	PG	-1.34	[kN/m]
			12.750	14.100	1.550		-1.34	[kN/m]
	GLN 668					activated	100.00	percent
Line			11.350	10.600	1.650	PG	-1.34	[kN/m]
			11.350	14.100	1.650		-1.34	[kN/m]
	GLN 659					activated	100.00	percent
Line			9.950	10.600	1.750	PG	-1.34	[kN/m]
			9.950	14.100	1.750		-1.34	[kN/m]
	GLN 652					activated	100.00	percent
Line			8.550	10.600	1.850	PG	-1.34	[kN/m]
			8.550	14.100	1.850		-1.34	[kN/m]
	GLN 648					activated	100.00	percent
Line			7.150	10.600	1.950	PG	-1.34	[kN/m]
			7.150	14.100	1.950		-1.34	[kN/m]
	GLN 637					activated	100.00	percent
Line			5.750	10.600	2.050	PG	-1.34	[kN/m]
			5.750	14.100	2.050		-1.34	[kN/m]
	GLN 626					activated	100.00	percent
Line			4.350	10.600	2.150	PG	-1.34	[kN/m]
			4.350	14.100	2.150		-1.34	[kN/m]
	GLN 613					activated	100.00	percent
Line			2.950	10.600	2.250	PG	-1.34	[kN/m]
			2.950	14.100	2.250		-1.34	[kN/m]
	GLN 616					activated	100.00	percent
Line			1.550	10.600	2.350	PG	-1.34	[kN/m]
			1.550	14.100	2.350		-1.34	[kN/m]
	GLN 604					activated	100.00	percent
Line			0.150	10.600	2.450	PG	-1.34	[kN/m]
			0.150	14.100	2.450		-1.34	[kN/m]
	GLN 682					activated	100.00	percent
Line			0.150	14.100	2.450	PG	-1.34	[kN/m]
			0.150	17.600	2.450		-1.34	[kN/m]
	GLN 683					activated	100.00	percent
Line			1.550	14.100	2.350	PG	-1.34	[kN/m]
			1.550	17.600	2.350		-1.34	[kN/m]
	GLN 605					activated	100.00	percent
Line			2.950	14.100	2.250	PG	-1.34	[kN/m]
			2.950	17.600	2.250		-1.34	[kN/m]
	GLN 614					activated	100.00	percent
Line			4.350	14.100	2.150	PG	-1.34	[kN/m]
			4.350	17.600	2.150		-1.34	[kN/m]
	GLN 621					activated	100.00	percent

Calculation of forces and moments

Loads

Kind	Referenceto	Projection	Coordinates				Type	Loadvalue
		W[m]	X[m]	Y[m]	Z[m]			
Line			5.750	14.100	2.050	PG	-1.34	[kN/m]
			5.750	17.600	2.050		-1.34	[kN/m]
	GLN 631					activated	100.00	percent
Line			7.150	14.100	1.950	PG	-1.34	[kN/m]
			7.150	17.600	1.950		-1.34	[kN/m]
	GLN 636					activated	100.00	percent
Line			8.550	14.100	1.850	PG	-1.34	[kN/m]
			8.550	17.600	1.850		-1.34	[kN/m]
	GLN 647					activated	100.00	percent
Line			9.950	14.100	1.750	PG	-1.34	[kN/m]
			9.950	17.600	1.750		-1.34	[kN/m]
	GLN 653					activated	100.00	percent
Line			11.350	14.100	1.650	PG	-1.34	[kN/m]
			11.350	17.600	1.650		-1.34	[kN/m]
	GLN 658					activated	100.00	percent
Line			12.750	14.100	1.550	PG	-1.34	[kN/m]
			12.750	17.600	1.550		-1.34	[kN/m]
	GLN 670					activated	100.00	percent
Line			14.150	14.100	1.450	PG	-1.34	[kN/m]
			14.150	17.600	1.450		-1.34	[kN/m]
	GLN 680					activated	100.00	percent
Line			14.150	17.600	1.450	PG	-1.34	[kN/m]
			14.150	21.100	1.450		-1.34	[kN/m]
	GLN 675					activated	100.00	percent
Line			12.750	17.600	1.550	PG	-1.34	[kN/m]
			12.750	21.100	1.550		-1.34	[kN/m]
	GLN 669					activated	100.00	percent
Line			11.350	17.600	1.650	PG	-1.34	[kN/m]
			11.350	21.100	1.650		-1.34	[kN/m]
	GLN 657					activated	100.00	percent
Line			9.950	17.600	1.750	PG	-1.34	[kN/m]
			9.950	21.100	1.750		-1.34	[kN/m]
	GLN 654					activated	100.00	percent
Line			8.550	17.600	1.850	PG	-1.34	[kN/m]
			8.550	21.100	1.850		-1.34	[kN/m]
	GLN 646					activated	100.00	percent
Line			7.150	17.600	1.950	PG	-1.34	[kN/m]
			7.150	21.100	1.950		-1.34	[kN/m]
	GLN 635					activated	100.00	percent
Line			5.750	17.600	2.050	PG	-1.34	[kN/m]
			5.750	21.100	2.050		-1.34	[kN/m]
	GLN 628					activated	100.00	percent
Line			4.350	17.600	2.150	PG	-1.34	[kN/m]
			4.350	21.100	2.150		-1.34	[kN/m]
	GLN 622					activated	100.00	percent
Line			2.950	17.600	2.250	PG	-1.34	[kN/m]
			2.950	21.100	2.250		-1.34	[kN/m]
	GLN 617					activated	100.00	percent
Line			1.550	17.600	2.350	PG	-1.34	[kN/m]
			1.550	21.100	2.350		-1.34	[kN/m]
	GLN 606					activated	100.00	percent
Line			0.150	17.600	2.450	PG	-1.34	[kN/m]
			0.150	21.100	2.450		-1.34	[kN/m]
	GLN 684					activated	100.00	percent
Line			0.150	21.100	2.450	PG	-1.34	[kN/m]
			0.150	24.600	2.450		-1.34	[kN/m]
	GLN 685					activated	100.00	percent

Calculation of forces and moments

Loads

Kind	Referenceto	Projection	Coordinates	Type	Loadvalue
		W[m]	X[m]	Y[m]	Z[m]
Line			1.550	21.100	2.350 PG
			1.550	24.600	2.350
	GLN	607			activated
					100.00 percent
Line			2.950	21.100	2.250 PG
			2.950	24.600	2.250
	GLN	620			activated
					100.00 percent
Line			4.350	21.100	2.150 PG
			4.350	24.600	2.150
	GLN	623			activated
					100.00 percent
Line			5.750	21.100	2.050 PG
			5.750	24.600	2.050
	GLN	629			activated
					100.00 percent
Line			7.150	21.100	1.950 PG
			7.150	24.600	1.950
	GLN	634			activated
					100.00 percent
Line			8.550	21.100	1.850 PG
			8.550	24.600	1.850
	GLN	645			activated
					100.00 percent
Line			9.950	21.100	1.750 PG
			9.950	24.600	1.750
	GLN	655			activated
					100.00 percent
Line			11.350	21.100	1.650 PG
			11.350	24.600	1.650
	GLN	663			activated
					100.00 percent
Line			12.750	21.100	1.550 PG
			12.750	24.600	1.550
	GLN	672			activated
					100.00 percent
Line			14.150	21.100	1.450 PG
			14.150	24.600	1.450
	GLN	676			activated
					100.00 percent
Line			14.150	24.600	1.450 PG
			14.150	28.700	1.450
	GLN	674			activated
					100.00 percent
Line			12.750	24.600	1.550 PG
			12.750	28.700	1.550
	GLN	665			activated
					100.00 percent
Line			11.350	24.600	1.650 PG
			11.350	28.700	1.650
	GLN	662			activated
					100.00 percent
Line			9.950	24.600	1.750 PG
			9.950	28.700	1.750
	GLN	656			activated
					100.00 percent
Line			8.550	24.600	1.850 PG
			8.550	28.700	1.850
	GLN	644			activated
					100.00 percent
Line			7.150	24.600	1.950 PG
			7.150	28.700	1.950
	GLN	641			activated
					100.00 percent
Line			5.750	24.600	2.050 PG
			5.750	28.700	2.050
	GLN	630			activated
					100.00 percent
Line			4.350	24.600	2.150 PG
			4.350	28.700	2.150
	GLN	624			activated
					100.00 percent
Line			2.950	24.600	2.250 PG
			2.950	28.700	2.250
	GLN	612			activated
					100.00 percent

Calculation of forces and moments

Loads

Kind	Referenceto	Projection	Coordinates	Type	Loadvalue
		W[m]	X[m]	Y[m]	Z[m]
Line			1.550	24.600	2.350 PG
			1.550	28.700	2.350
	GLN	608		activated	100.00 percent
Line			0.150	24.600	2.450 PG
			0.150	28.700	2.450
	GLN	686		activated	100.00 percent

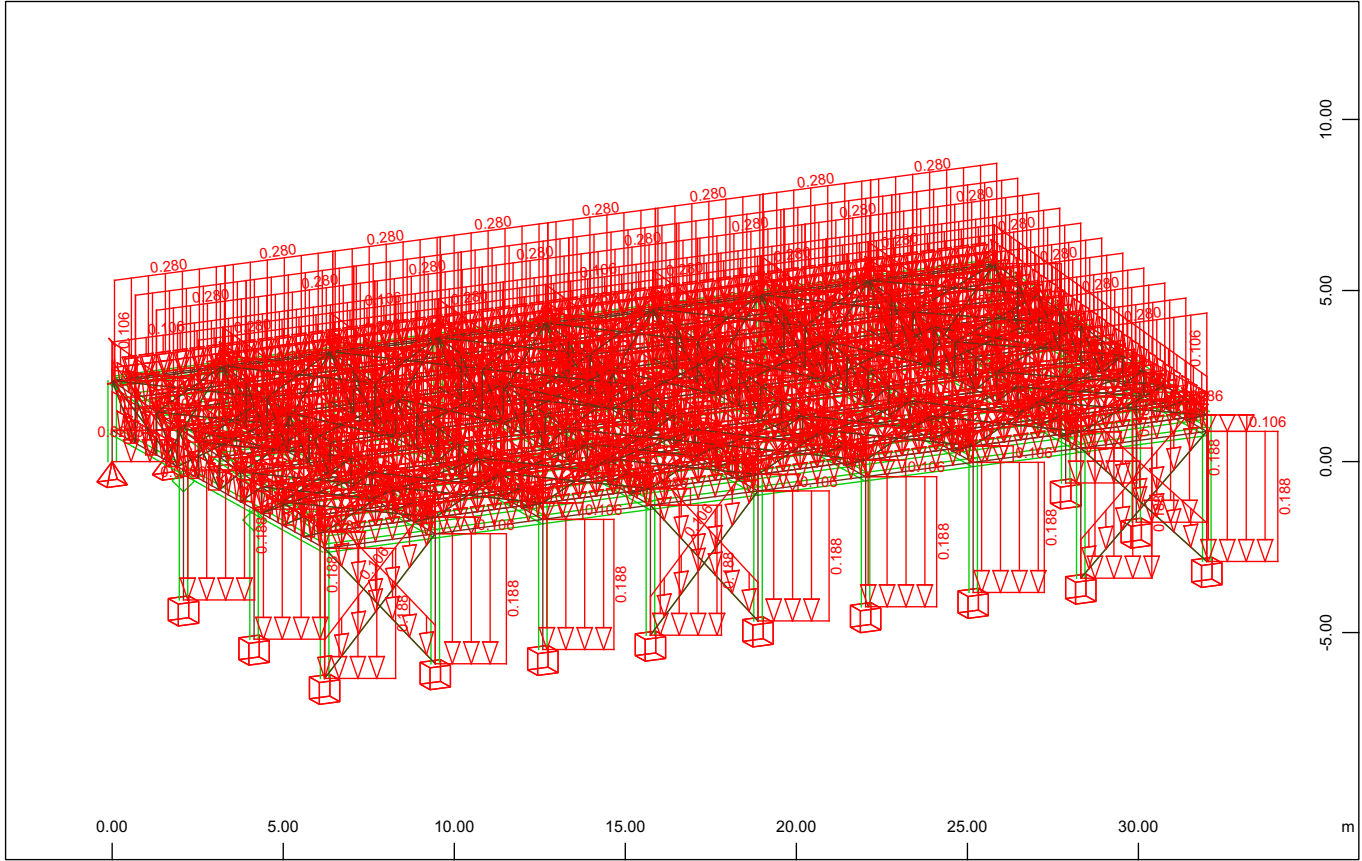
Sum of Loadings

Loadcase	Σ (Loads)			Designation
	X[kN]	Y[kN]	Z[kN]	
1	0.0	0.0	-170.2	MONIMO
2	0.0	0.0	-221.0	KINHTO
3	0.0	0.0	-142.1	XIONI
4	-116.9	0.0	304.2	ANEMOS 0
5	31.1	50.4	453.1	ANEMOS 90

Sum of Reactions and Loadings

Loadcase	Σ (Reactions)			Designation
	X[kN]	Y[kN]	Z[kN]	
	Σ (Loads)			
1	0.0	0.0	170.2	MONIMO
	0.0	0.0	-170.2	
2	0.0	0.0	221.0	KINHTO
	0.0	0.0	-221.0	
3	0.0	0.0	142.1	XIONI
	0.0	0.0	-142.1	
4	116.9	0.0	-304.2	ANEMOS 0
	-116.9	0.0	304.2	
5	-31.1	-50.4	-453.1	ANEMOS 90
	31.1	50.4	453.1	

Graphical Output

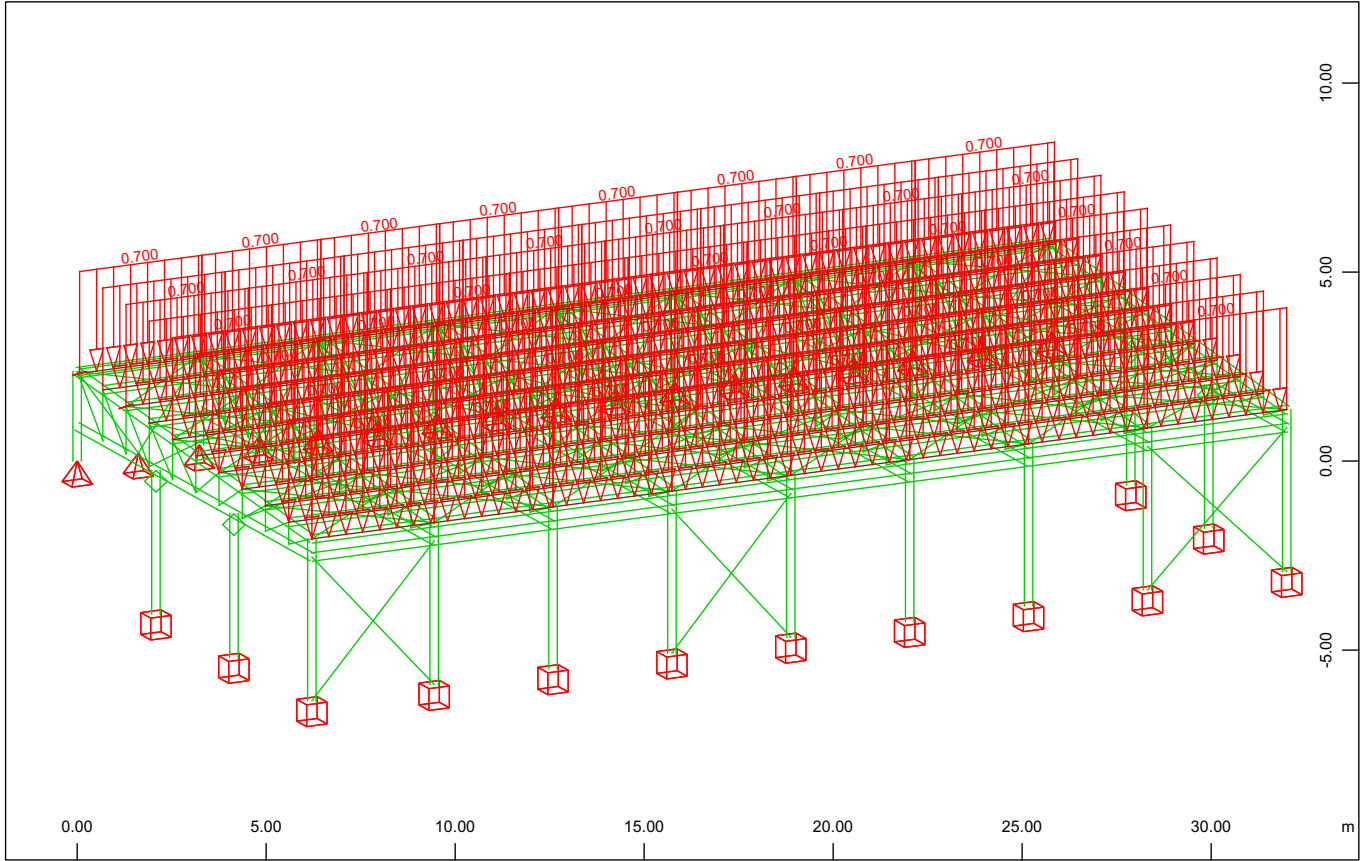


Z
Y

All loads (in components), Loadcase 1 MONIMO , (1 cm 3D = unit) Beam line load (force)
in global Z (Unit=0.200 kN/m,Min=-0.280 Max=-0.280)
(Unit=0.200 kN/m,Min=-0.188 Max=-0.0403)

Beam dead load in global Z
(Unit=0.200 kN/m,Min=-0.188 Max=-0.0403)

M 1 : 221
X * 0.502
Y * 0.906
Z * 0.962



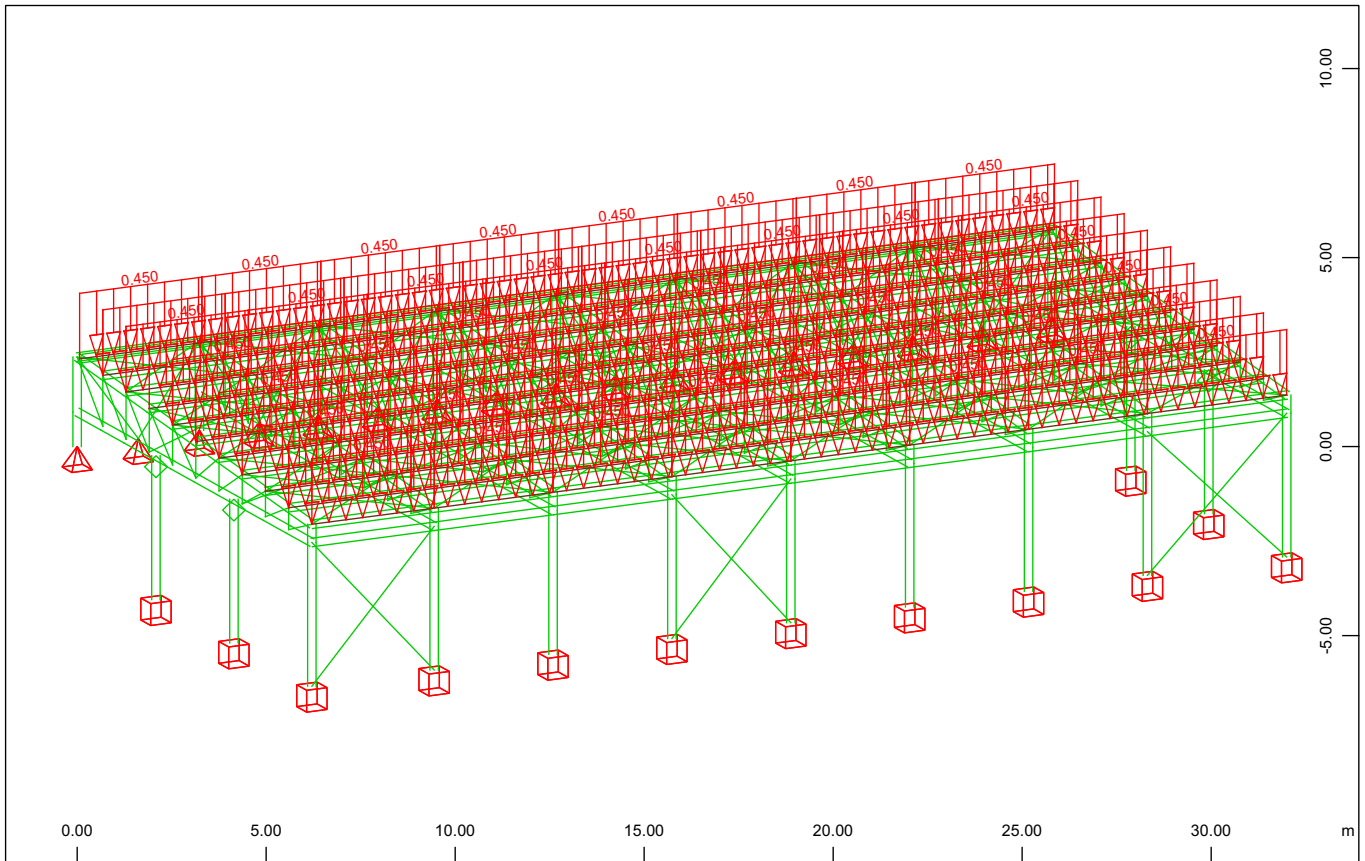
Z
Y

All loads (in components), Loadcase 2 KINHTO , (1 cm 3D = unit) Beam line load (force)
in global Z (Unit=0.500 kN/m)

(Min=-0.700) (Max=-0.700)

M 1 : 200
X * 0.502
Y * 0.906
Z * 0.962

Graphical Output



All loads (in components), Loadcase 3 XIONI , (1 cm 3D = unit) Beam line load (force) in global Z (Unit=0.500 kN/m)

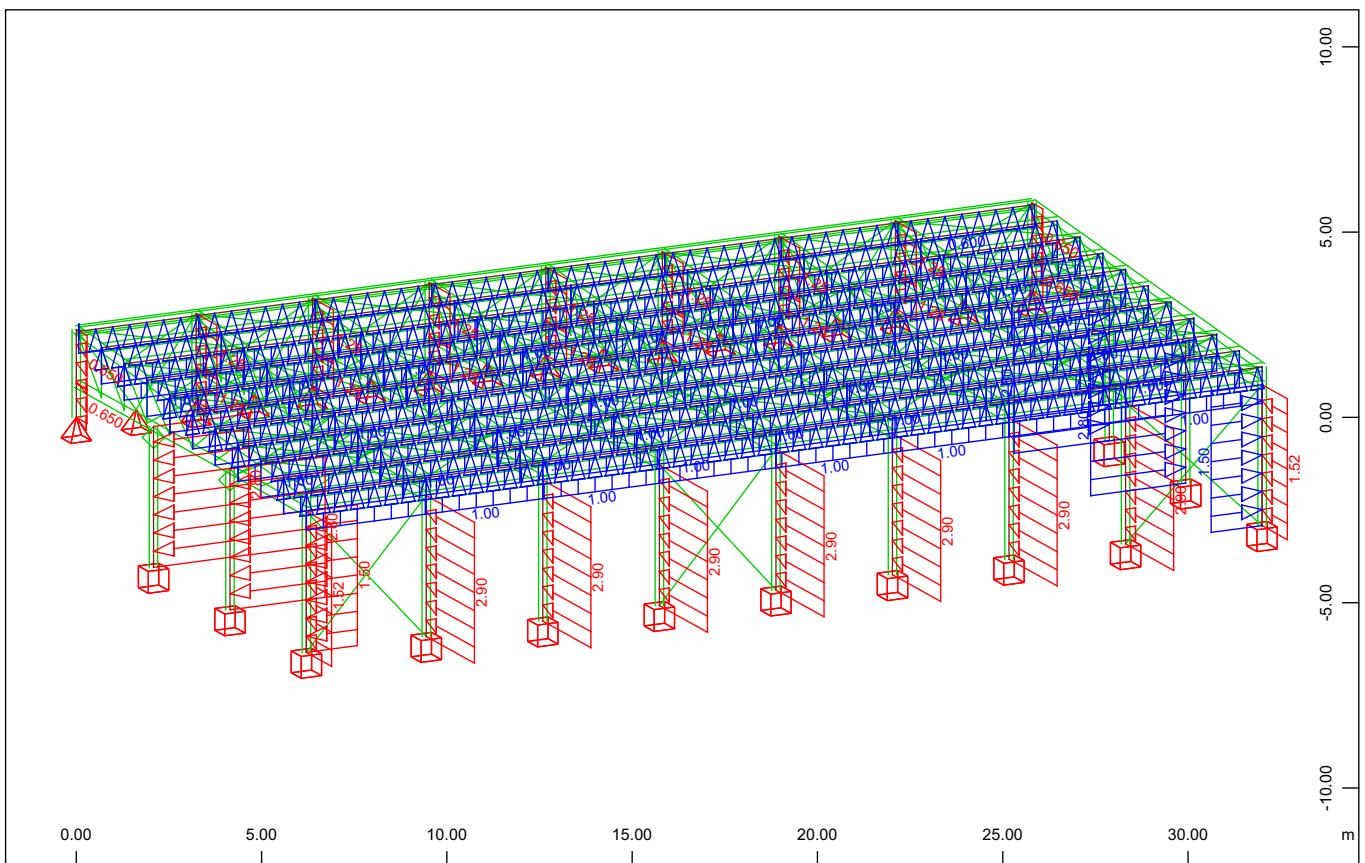
(Min=-0.450) (Max=-0.450)

M 1 : 200

X * 0.502

Y * 0.906

Z * 0.962



All loads (in components), Loadcase 4 ANEMOS 0 , (1 cm 3D = unit) Beam line load (force) in global X (Unit=2.00 kN/m, Min=-2.90 Max=-0.650)

(Unit=2.00 kN/m, Min=-2.80 Max=2.80)

(Min=-0.650) (Max=-0.650), Beam line load (force) in global Y

(Min=-0.650) (Max=-0.650), Beam line load (force) in global Z (Unit=2.00)

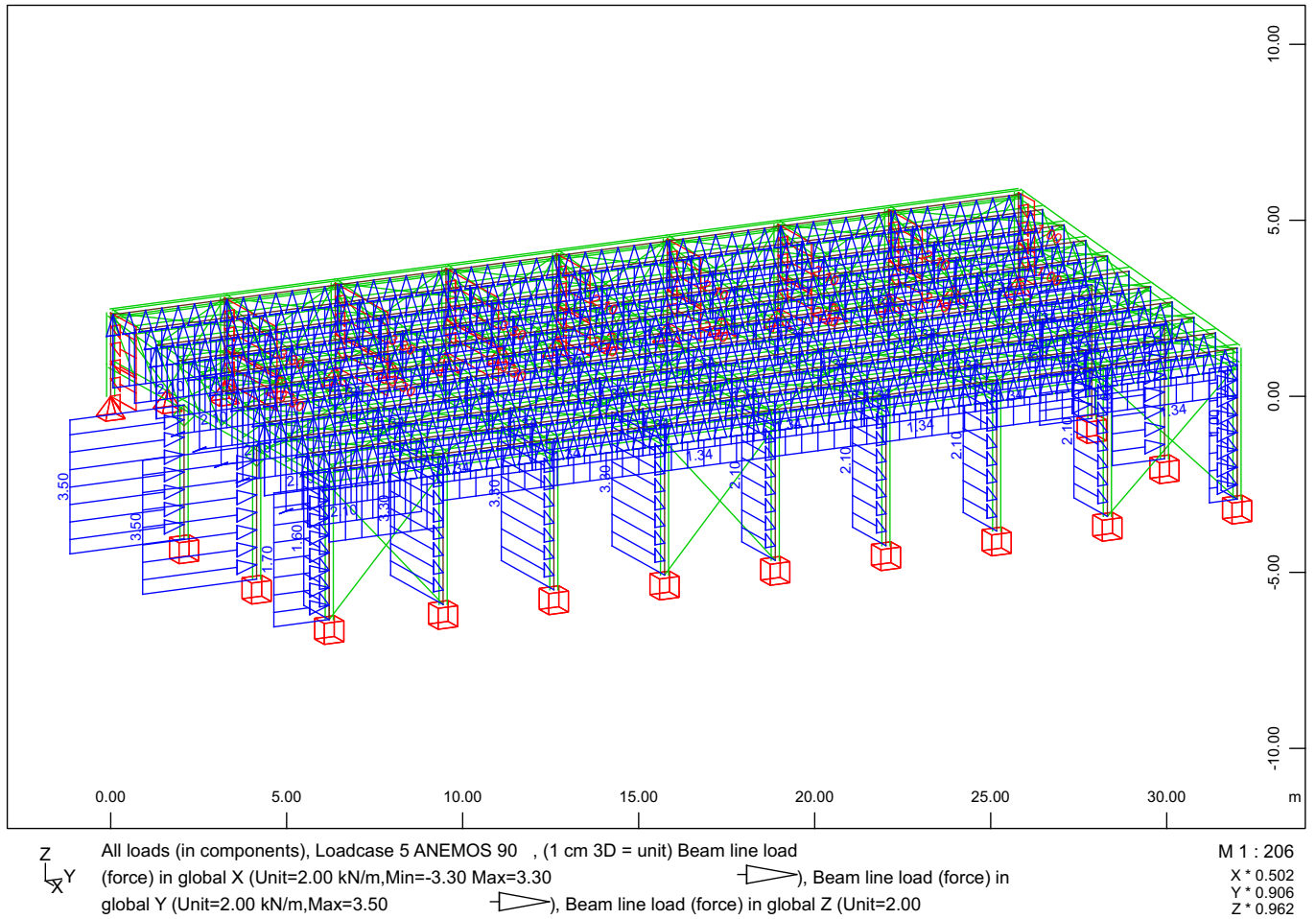
M 1 : 204

X * 0.502

Y * 0.906

Z * 0.962

SOFISTIK AG - www.sofistik.de



Superposition according to EuroNorm EN 1993-1-1:2005 Steel Structures

Combination rule Number 100

Service: Rare combination

Superposition according to manual MAXIMA formula 2.4

$$E_{d,rare} = E \left\{ \sum_{j \geq 1} G_{k,j} \oplus P_k \oplus Q_{k,1} \oplus \sum_{i > 1} \psi_{0,i} \cdot Q_{k,i} \right\}$$

Resulting Load Cases type Service: Rare combination

Load Case selection and Actions

Act	Part LC	Superposition Factors							Fact	Type	Designation
		$\gamma-u$	$\gamma-f$	$\gamma-a$	$\psi-0$	$\psi-1$	$\psi-2$	$\psi-1'$			
G	G	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	PERM	dead load MONIMO
Q	Q	1.00	0.00	1.00	0.70	0.50	0.30	1.00	1.00	COND	variable load KINHTO
S	Q	1.00	0.00	1.00	0.50	0.20	0.00	0.20	1.00	COND	snow loading XIONI
W	Q	1.00	0.00	1.00	0.60	0.20	0.00	1.00	1.00	A10	wind loading ANEMOS 0
									1.00	A10	ANEMOS 90
Act		action							Fact		
Part		partition of the action							Type		
$\gamma-u, \gamma-f, \gamma-a$		safety factors for unfavourable/favourable/accidental							PERM		
$\psi-0, \psi-1, \psi-2, \psi-1'$		combination coefficients							COND		
LC		number of the load case							A		

Combination rule Number 101

Service: Frequent combination

Superposition according to manual MAXIMA formula 2.5

$$E_{d,frequ} = E \left\{ \sum_{j \geq 1} G_{k,j} \oplus P_k \oplus \psi_{1,1} \cdot Q_{k,1} \oplus \sum_{i > 1} \psi_{2,i} \cdot Q_{k,i} \right\}$$

Resulting Load Cases type Service: Frequent combination

Load Case selection and Actions

Act	Part LC	Superposition Factors							Fact	Type	Designation
		$\gamma-u$	$\gamma-f$	$\gamma-a$	$\psi-0$	$\psi-1$	$\psi-2$	$\psi-1'$			
G	G	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	PERM	dead load MONIMO
Q	Q	1.00	0.00	1.00	0.70	0.50	0.30	1.00	1.00	COND	variable load KINHTO
S	Q	1.00	0.00	1.00	0.50	0.20	0.00	0.20	1.00	COND	snow loading XIONI
W	Q	1.00	0.00	1.00	0.60	0.20	0.00	1.00	1.00	A10	wind loading ANEMOS 0
									1.00	A10	ANEMOS 90
Act		action							Fact		
Part		partition of the action							Type		
$\gamma-u, \gamma-f, \gamma-a$		safety factors for unfavourable/favourable/accidental							PERM		
$\psi-0, \psi-1, \psi-2, \psi-1'$		combination coefficients							COND		
LC		number of the load case							A		

Combination rule Number 102

Service: Permanent combination

Superposition according to manual MAXIMA formula 2.7

$$E_{d,perm} = E \left\{ \sum_{j \geq 1} G_{k,j} \oplus P_k \oplus \sum_{i \geq 1} \psi_{2,i} \cdot Q_{k,i} \right\}$$

Resulting Load Cases type Service: Permanent combination

Load Case selection and Actions

Act	Part LC	Superposition Factors							Fact	Type	Designation
		γ-u	γ-f	γ-a	ψ-0	ψ-1	ψ-2	ψ-1'			
G	G	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	PERM	dead load MONIMO
Q	Q	1.00	0.00	1.00	0.70	0.50	0.30	1.00	1.00	COND	variable load KINHTO
S	Q	1.00	0.00	1.00	0.50	0.20	0.00	0.20	1.00	COND	snow loading XIONI
W	Q	1.00	0.00	1.00	0.60	0.20	0.00	1.00	1.00	A10	wind loading ANEMOS 0
	4								1.00	A10	ANEMOS 90
	5								1.00	A10	ANEMOS 90
Act		action							Fact		
Part		partition of the action							Type		
γ-u, γ-f, γ-a		safety factors for unfavourable/favourable/accidental							PERM		
ψ-0, ψ-1, ψ-2, ψ-1'		combination coefficients							COND		
LC		number of the load case							A		

Combination rule Number 104

equ.6.10a(EN 1990)

Superposition according to explicitly defined formula

$\gamma \cdot \{G\} + \gamma \cdot \{P\} + (\gamma \cdot u \cdot \psi \cdot 0 / 0.00) \cdot \{Q1\} + (\gamma \cdot u \cdot \psi \cdot 0 / 0.00) \cdot \{QI\}$

Resulting Load Cases type Ultimate Design combination

Load Case selection and Actions

Act	Part LC	Superposition Factors								Fact	Type	Designation
		fac-u	fac-f	facu1	facf1	facu2	facf2	facu3	facf3			
G	G	1.35	1.00							1.00	PERM	dead load MONIMO
Q	Q	1.05	0.00	1.05	0.00					1.00	COND	variable load KINHTO
S	Q	0.75	0.00	0.75	0.00					1.00	COND	snow loading XIONI
W	Q	0.90	0.00	0.90	0.00					1.00	A10	wind loading ANEMOS 0
	4									1.00	A10	ANEMOS 90
	5									1.00	A10	ANEMOS 90
Act		action										
Part		partition of the action										
fac-u, fac-f		factor unfavourable/favourable										
facu1, facf1, facu2, facf2, facu3, facf3		factors unfavourable/favourable 1st,2nd,3rd dominant action										
LC		number of the load case										
Fact		factor for load case										
Type		type of the load case										
PERM		permanent load grouped in actions										
COND		conditional load										
A		exclusive load										

Combination rule Number 105

equ.6.10b(EN 1990)

Superposition according to explicitly defined formula

Combination rule Number 105

$$\xi \cdot \gamma \cdot \{G\} + \gamma \cdot \{P\} + \gamma \cdot \{Q1\} + (\gamma - u \cdot \psi - 0/0.00) \cdot \{QI\}$$

Resulting Load Cases type Ultimate Design combination

Load Case selection and Actions

Act	Part	Superposition Factors								Fact	Type	Designation
		fac-u	fac-f	facu1	facf1	facu2	facf2	facu3	facf3			
G	G	1.15	1.00									dead load
	1									1.00	PERM	MONIMO
Q	Q	1.05	0.00	1.50	0.00							variable load
	2									1.00	COND	KINHTO
S	Q	0.75	0.00	1.50	0.00							snow loading
	3									1.00	COND	XIONI
W	Q	0.90	0.00	1.50	0.00							wind loading
	4									1.00	A10	ANEMOS 0
	5									1.00	A10	ANEMOS 90
Act action Part partition of the action fac-u, fac-f factor unfavourable/favourable facu1, facf1, facu2, facf2, facu3, facf3 factors unfavourable/favourable 1st, 2nd, 3rd dominant action LC number of the load case Fact factor for load case Type type of the load case PERM permanent load grouped in actions COND conditional load A exclusive load												

Generated Load Cases

Number	Combination	Designation
1171	100	MAXR-UX NODE Nodal Displacements
1172	100	MINR-UX NODE Nodal Displacements
1173	100	MAXR-UY NODE Nodal Displacements
1174	100	MINR-UY NODE Nodal Displacements
1175	100	MAXR-UZ NODE Nodal Displacements
1176	100	MINR-UZ NODE Nodal Displacements
1177	100	MAXR-URX NODE Nodal Displacements
1178	100	MINR-URX NODE Nodal Displacements
1179	100	MAXR-URY NODE Nodal Displacements
1180	100	MINR-URY NODE Nodal Displacements
1181	100	MAXR-URZ NODE Nodal Displacements
1182	100	MINR-URZ NODE Nodal Displacements
1183	100	MAXR-URB NODE Nodal Displacements
1184	100	MINR-URB NODE Nodal Displacements
1271	101	MAXF-UX NODE Nodal Displacements
1272	101	MINF-UX NODE Nodal Displacements
1273	101	MAXF-UY NODE Nodal Displacements
1274	101	MINF-UY NODE Nodal Displacements
1275	101	MAXF-UZ NODE Nodal Displacements
1276	101	MINF-UZ NODE Nodal Displacements
1277	101	MAXF-URX NODE Nodal Displacements
1278	101	MINF-URX NODE Nodal Displacements
1279	101	MAXF-URY NODE Nodal Displacements
1280	101	MINF-URY NODE Nodal Displacements
1281	101	MAXF-URZ NODE Nodal Displacements
1282	101	MINF-URZ NODE Nodal Displacements
1283	101	MAXF-URB NODE Nodal Displacements
1284	101	MINF-URB NODE Nodal Displacements
1371	102	MAXP-UX NODE Nodal Displacements
1372	102	MINP-UX NODE Nodal Displacements
1373	102	MAXP-UY NODE Nodal Displacements
1374	102	MINP-UY NODE Nodal Displacements
1375	102	MAXP-UZ NODE Nodal Displacements
1376	102	MINP-UZ NODE Nodal Displacements
1377	102	MAXP-URX NODE Nodal Displacements

Generated Load Cases

Number	Combination	Designation
1378	102	MINP-URX NODE Nodal Displacements
1379	102	MAXP-URY NODE Nodal Displacements
1380	102	MINP-URY NODE Nodal Displacements
1381	102	MAXP-URZ NODE Nodal Displacements
1382	102	MINP-URZ NODE Nodal Displacements
1383	102	MAXP-URB NODE Nodal Displacements
1384	102	MINP-URB NODE Nodal Displacements
2251	104	MAX-PX NODE Supporting Forces in Nodes
2252	104	MIN-PX NODE Supporting Forces in Nodes
2253	104	MAX-PY NODE Supporting Forces in Nodes
2254	104	MIN-PY NODE Supporting Forces in Nodes
2255	104	MAX-PZ NODE Supporting Forces in Nodes
2256	104	MIN-PZ NODE Supporting Forces in Nodes
2257	104	MAX-MX NODE Supporting Forces in Nodes
2258	104	MIN-MX NODE Supporting Forces in Nodes
2259	104	MAX-MY NODE Supporting Forces in Nodes
2260	104	MIN-MY NODE Supporting Forces in Nodes
2261	104	MAX-MZ NODE Supporting Forces in Nodes
2262	104	MIN-MZ NODE Supporting Forces in Nodes
2291	104	MAX-MB NODE Supporting Forces in Nodes
2292	104	MIN-MB NODE Supporting Forces in Nodes
2221	104	MAX-N BEAM Forces in Beam Elements
2222	104	MIN-N BEAM Forces in Beam Elements
2223	104	MAX-VY BEAM Forces in Beam Elements
2224	104	MIN-VY BEAM Forces in Beam Elements
2225	104	MAX-VZ BEAM Forces in Beam Elements
2226	104	MIN-VZ BEAM Forces in Beam Elements
2227	104	MAX-MT BEAM Forces in Beam Elements
2228	104	MIN-MT BEAM Forces in Beam Elements
2229	104	MAX-MY BEAM Forces in Beam Elements
2230	104	MIN-MY BEAM Forces in Beam Elements
2231	104	MAX-MZ BEAM Forces in Beam Elements
2232	104	MIN-MZ BEAM Forces in Beam Elements
2233	104	MAX-MB BEAM Forces in Beam Elements
2234	104	MIN-MB BEAM Forces in Beam Elements
2235	104	MAX-MT2 BEAM Forces in Beam Elements
2236	104	MIN-MT2 BEAM Forces in Beam Elements
2241	104	MAX-N TRUS Forces in Truss Elements
2242	104	MIN-N TRUS Forces in Truss Elements
2351	105	MAX-PX NODE Supporting Forces in Nodes
2352	105	MIN-PX NODE Supporting Forces in Nodes
2353	105	MAX-PY NODE Supporting Forces in Nodes
2354	105	MIN-PY NODE Supporting Forces in Nodes
2355	105	MAX-PZ NODE Supporting Forces in Nodes
2356	105	MIN-PZ NODE Supporting Forces in Nodes
2357	105	MAX-MX NODE Supporting Forces in Nodes
2358	105	MIN-MX NODE Supporting Forces in Nodes
2359	105	MAX-MY NODE Supporting Forces in Nodes
2360	105	MIN-MY NODE Supporting Forces in Nodes
2361	105	MAX-MZ NODE Supporting Forces in Nodes
2362	105	MIN-MZ NODE Supporting Forces in Nodes
2391	105	MAX-MB NODE Supporting Forces in Nodes
2392	105	MIN-MB NODE Supporting Forces in Nodes
2321	105	MAX-N BEAM Forces in Beam Elements
2322	105	MIN-N BEAM Forces in Beam Elements
2323	105	MAX-VY BEAM Forces in Beam Elements
2324	105	MIN-VY BEAM Forces in Beam Elements
2325	105	MAX-VZ BEAM Forces in Beam Elements
2326	105	MIN-VZ BEAM Forces in Beam Elements
2327	105	MAX-MT BEAM Forces in Beam Elements

Generated Load Cases

Number	Combination	Designation
2328	105	MIN-MT BEAM Forces in Beam Elements
2329	105	MAX-MY BEAM Forces in Beam Elements
2330	105	MIN-MY BEAM Forces in Beam Elements
2331	105	MAX-MZ BEAM Forces in Beam Elements
2332	105	MIN-MZ BEAM Forces in Beam Elements
2333	105	MAX-MB BEAM Forces in Beam Elements
2334	105	MIN-MB BEAM Forces in Beam Elements
2335	105	MAX-MT2 BEAM Forces in Beam Elements
2336	105	MIN-MT2 BEAM Forces in Beam Elements
2341	105	MAX-N TRUS Forces in Truss Elements
2342	105	MIN-N TRUS Forces in Truss Elements

Definition Response Spectra

Actions

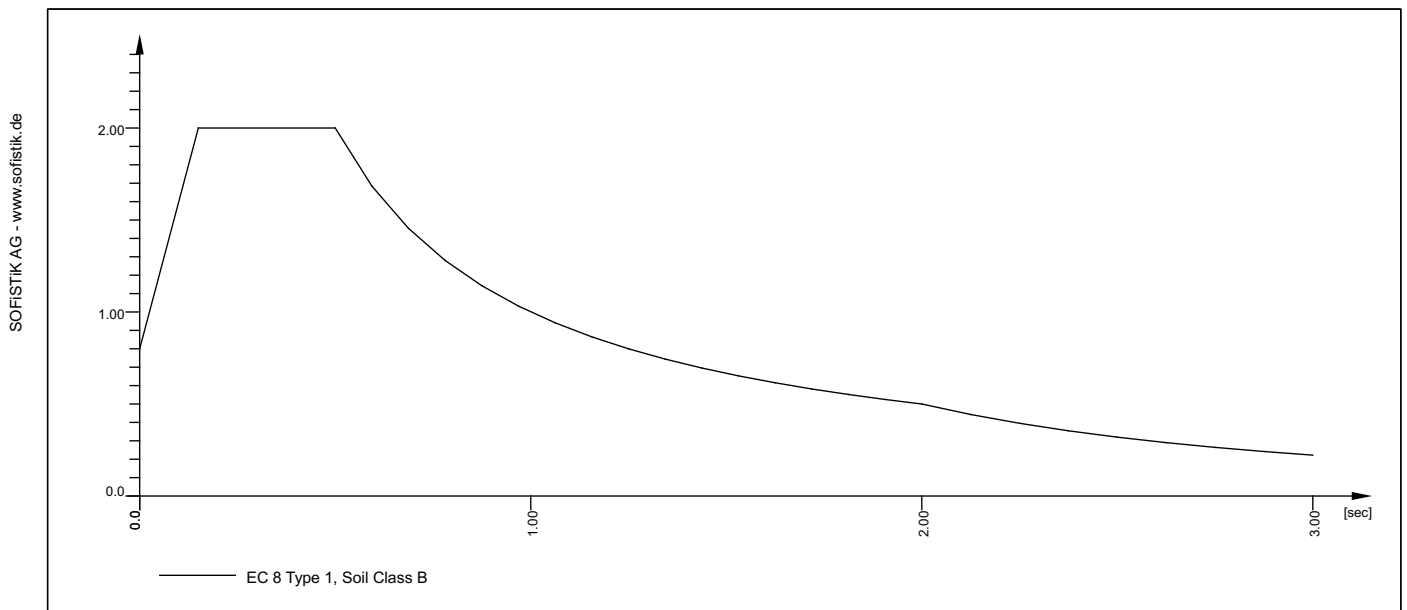
type	part	sup	Designation	γ -u	γ -f	γ -a	ψ -0	ψ -1	ψ -2	ψ -1'
G	G	perm	dead load	1.35	1.00	1.00	1.00	1.00	1.00	1.00
Q	Q	cond	variable load	1.50	0.00	1.00	0.70	0.50	0.30	1.00
S	Q	cond	snow loading	1.50	0.00	1.00	0.50	0.20	0.00	0.20
W	Q	excl	wind loading	1.50	0.00	1.00	0.60	0.20	0.00	1.00
			Reduction coefficient	xsi	0.850					
type	action		γ -u, γ -f, γ -a	safety factors for unfavourable/favourable/accidental						
part	partition of the action		ψ -0, ψ -1, ψ -2, ψ -1'	combination coefficients						
sup	superposition type									

Load Case 1490

Factor forces and moments		1.000
Factor dead weight	DL-XX	0.000
Factor dead weight	DL-YY	0.000
Factor dead weight	DL-ZZ	0.000

Response spectra EC 8 Type 1, Soil Class B

D[-]	SA[-]	SB[-]	MIN[-]	TB[sec]	TC[sec]	TD[sec]	TE[sec]	K1[-]	K2[-]	A[m/sec ²]
1.5000	0.800	2.000	0.200	0.150	0.500	2.000	0.000	1.000	2.000	1.57
Zone = 1.57				ah = *	1.000	av = *	0.000			



Loads acting on Nodes

Node	A-X	A-Y	A-Z	A-RX	A-RY	A-RZ
	[m/sec ²]	[m/sec ²]	[m/sec ²]	[1/sec ²]	[1/sec ²]	[1/sec ²]
0	1.57					

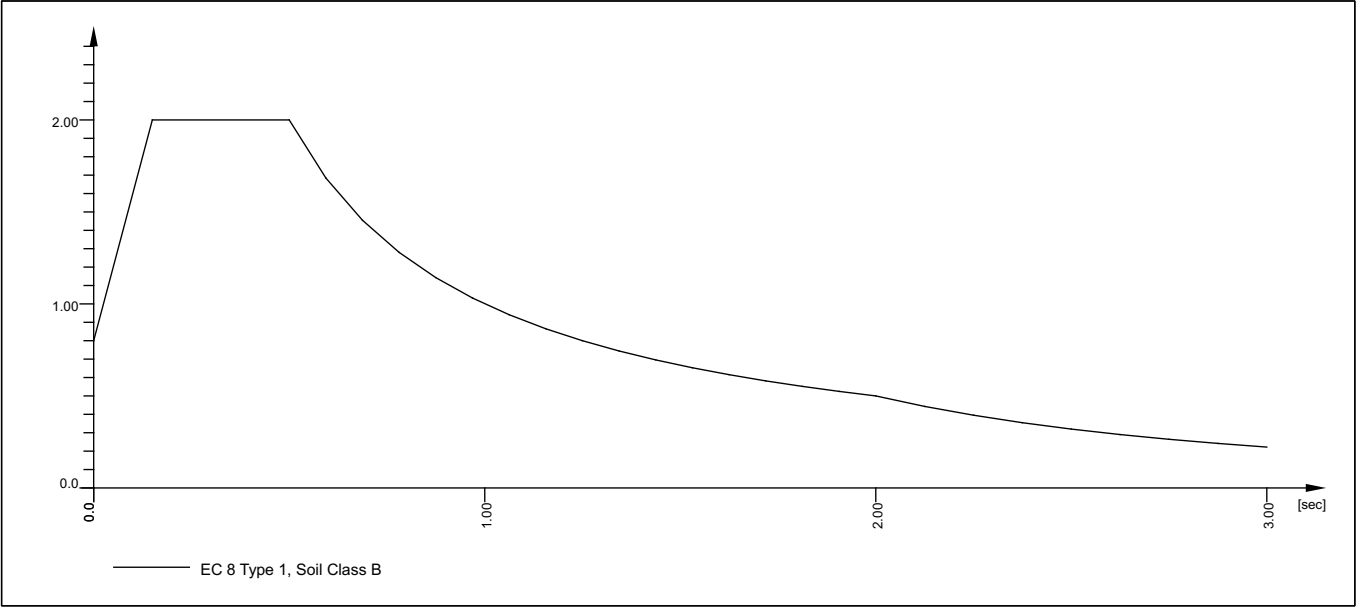
Load Case 1491

Factor forces and moments		1.000
Factor dead weight	DL-XX	0.000
Factor dead weight	DL-YY	0.000
Factor dead weight	DL-ZZ	0.000

Response spectra EC 8 Type 1, Soil Class B

D[-]	SA[-]	SB[-]	MIN[-]	TB[sec]	TC[sec]	TD[sec]	TE[sec]	K1[-]	K2[-]	A[m/sec ²]
1.5000	0.800	2.000	0.200	0.150	0.500	2.000	0.000	1.000	2.000	1.57
Zone = 1.57				ah = *	1.000	av = *	0.000			

Definition Response Spectra



Loads acting on Nodes

Node	A-X	A-Y	A-Z	A-RX	A-RY	A-RZ
	[m/sec2]	[m/sec2]	[m/sec2]	[1/sec2]	[1/sec2]	[1/sec2]
0		1.57				

Calculation Of Eigenvalues

System- and Control Information

Control Information

Number of unknowns 1301
unknowns per node 6
Number eigenvalues 10

Groups

Grp	Option	CS	Factor	Rayleigh-A [1/sec]	Rayleigh-B [sec]	ξ [o/o]	Wind
1	EXTR		1.000	0.000000	0.000000	0.00	0
2	EXTR		1.000	0.000000	0.000000	0.00	0
3	EXTR		1.000	0.000000	0.000000	0.00	0
4	EXTR		1.000	0.000000	0.000000	0.00	0
6	EXTR		1.000	0.000000	0.000000	0.00	0
7	EXTR		1.000	0.000000	0.000000	0.00	0
8	EXTR		1.000	0.000000	0.000000	0.00	0
9	EXTR		1.000	0.000000	0.000000	0.00	0
10	EXTR		1.000	0.000000	0.000000	0.00	0
11	EXTR		1.000	0.000000	0.000000	0.00	0

CS construction stage
Factor Factor on stiffness
Rayleigh-A mass proportional damping ratio
Rayleigh-B stiffness proportional damping ratio
 ξ modal damping ratio
Wind options for dynamic wind loading

Beam Elements

Finite beam elements without intermediate sections

Shear deformations accounted for with nonconforming SOFiSTiK-Timoshenko beam

Sum of masses and mass moments of inertia

Node	TM			RM			RMB
	X[t]	Y[t]	Z[t]	X[tm2]	Y[tm2]	Z[tm2]	[tm2]
total ¹	8.176	8.176	8.176	0.009	0.011	0.009	-
	S[m] ²			RM(S) ³			
	7.425	14.203	1.174	715.047	-0.872	-24.402	
				-0.872	232.537	0.349	
				-24.402	0.349	916.744	
activ ¹	7.317	7.317	0.007	0.008	0.010	0.006	-
	S[m] ²			RM(S) ³			
	7.173	14.210	1.581	3.118	-0.000	-11.400	
				-0.000	2.693	0.120	
				-11.400	0.120	789.022	
factor ⁴	1.000	1.000	0.001	1.000	1.000	1.000	-

¹ sum of the total and the active nodal masses
² coordinates of the center of gravity
³ 3x3 rotational mass matrix at the center of gravity
⁴ factor on masses

TM translational masses in X-, Y- and Z-direction
RM rotational masses about X-, Y- and Z-axis
RMB warping mass

Calculation of Spectras

Results

Nodal Displacements, method CQC

Node	u-X [mm]	u-Y [mm]	u-Z [mm]
MAX	1.322	0.953	0.187

Nodal velocities, method CQC

Node	v-X [m/sec]	v-Y [m/sec]	v-Z [m/sec]
MAX	0.06	0.07	0.01

Nodal accelerations, method CQC

	a-X [m/sec ²]	a-Y [m/sec ²]	a-Z [m/sec ²]
MAX	3.12	4.45	0.44

Maximum Forces and Moments

Type	LC-MAX	LC-MIN	STYP
Beam Elements			
N	1402	-	CQC
Vy	1403	-	CQC
Vz	1404	-	CQC
Mt	1405	-	CQC
My	1406	-	CQC
Mz	1407	-	CQC
Spring Elements			
N	1411	-	CQC
Type	result type		
LC-MAX,LC-MIN	load case		
STYP	modal superposition type		

Analysis of Combined Loadcases

Load Case 1001 ((D)) 2nd Order Theory 1.35G+1.5Q+0.75S+0.9W

Factor forces and moments		1.000	
Factor dead weight	DL-XX	0.000	
Factor dead weight	DL-YY	0.000	
Factor dead weight	DL-ZZ	-1.350	
Selected loads	copied from load case	1 with factor	1.350
Selected loads	copied from load case	2 with factor	1.500
Selected loads	copied from load case	3 with factor	0.750
Selected loads	copied from load case	4 with factor	0.900

Sum of Loadings

Loadcase	Σ (Loads)			Designation
	X[kN]	Y[kN]	Z[kN]	
1001	-105.2	0.0	-393.9	1.35G+1.5Q+0.75S+0.9W

Load Case 1002 ((D)) 2nd Order Theory 1.35G+1.5S+1.05Q+0.9W

Factor forces and moments		1.000	
Factor dead weight	DL-XX	0.000	
Factor dead weight	DL-YY	0.000	
Factor dead weight	DL-ZZ	-1.350	
Selected loads	copied from load case	1 with factor	1.350
Selected loads	copied from load case	3 with factor	1.500
Selected loads	copied from load case	2 with factor	1.050
Selected loads	copied from load case	4 with factor	0.900

Sum of Loadings

Loadcase	Σ (Loads)			Designation
	X[kN]	Y[kN]	Z[kN]	
1002	-105.2	0.0	-401.0	1.35G+1.5S+1.05Q+0.9W

Load Case 1003 ((D)) 2nd Order Theory 1.35G+1.5Q+0.75S+0.9W

Factor forces and moments		1.000	
Factor dead weight	DL-XX	0.000	
Factor dead weight	DL-YY	0.000	
Factor dead weight	DL-ZZ	-1.350	
Selected loads	copied from load case	1 with factor	1.350
Selected loads	copied from load case	2 with factor	1.500
Selected loads	copied from load case	3 with factor	0.750
Selected loads	copied from load case	5 with factor	0.900

Sum of Loadings

Loadcase	Σ (Loads)			Designation
	X[kN]	Y[kN]	Z[kN]	
1003	28.0	45.3	-259.9	1.35G+1.5Q+0.75S+0.9W

Load Case 1004 ((D)) 2nd Order Theory 1.35G+1.5S+1.05Q+0.9W

Factor forces and moments		1.000	
Factor dead weight	DL-XX	0.000	
Factor dead weight	DL-YY	0.000	
Factor dead weight	DL-ZZ	-1.350	
Selected loads	copied from load case	1 with factor	1.350
Selected loads	copied from load case	3 with factor	1.500
Selected loads	copied from load case	2 with factor	1.050
Selected loads	copied from load case	5 with factor	0.900

Analysis of Combined Loadcases

Sum of Loadings

Loadcase	Σ (Loads)			Designation
	X[kN]	Y[kN]	Z[kN]	
1004	28.0	45.3	-267.0	1.35G+1.5S+1.05Q+0.9W

Load Case 1005 ((D)) 2nd Order Theory G+1.5W

Factor forces and moments	1.000
Factor dead weight DL-XX	0.000
Factor dead weight DL-YY	0.000
Factor dead weight DL-ZZ	-1.000
Selected loads copied from load case	1 with factor 1.000
Selected loads copied from load case	4 with factor 1.500

Sum of Loadings

Loadcase	Σ (Loads)			Designation
	X[kN]	Y[kN]	Z[kN]	
1005	-175.4	0.0	286.2	G+1.5W

Load Case 1006 ((D)) 2nd Order Theory G+1.5W

Factor forces and moments	1.000
Factor dead weight DL-XX	0.000
Factor dead weight DL-YY	0.000
Factor dead weight DL-ZZ	-1.000
Selected loads copied from load case	1 with factor 1.000
Selected loads copied from load case	5 with factor 1.500

Sum of Loadings

Loadcase	Σ (Loads)			Designation
	X[kN]	Y[kN]	Z[kN]	
1006	46.7	75.5	509.5	G+1.5W

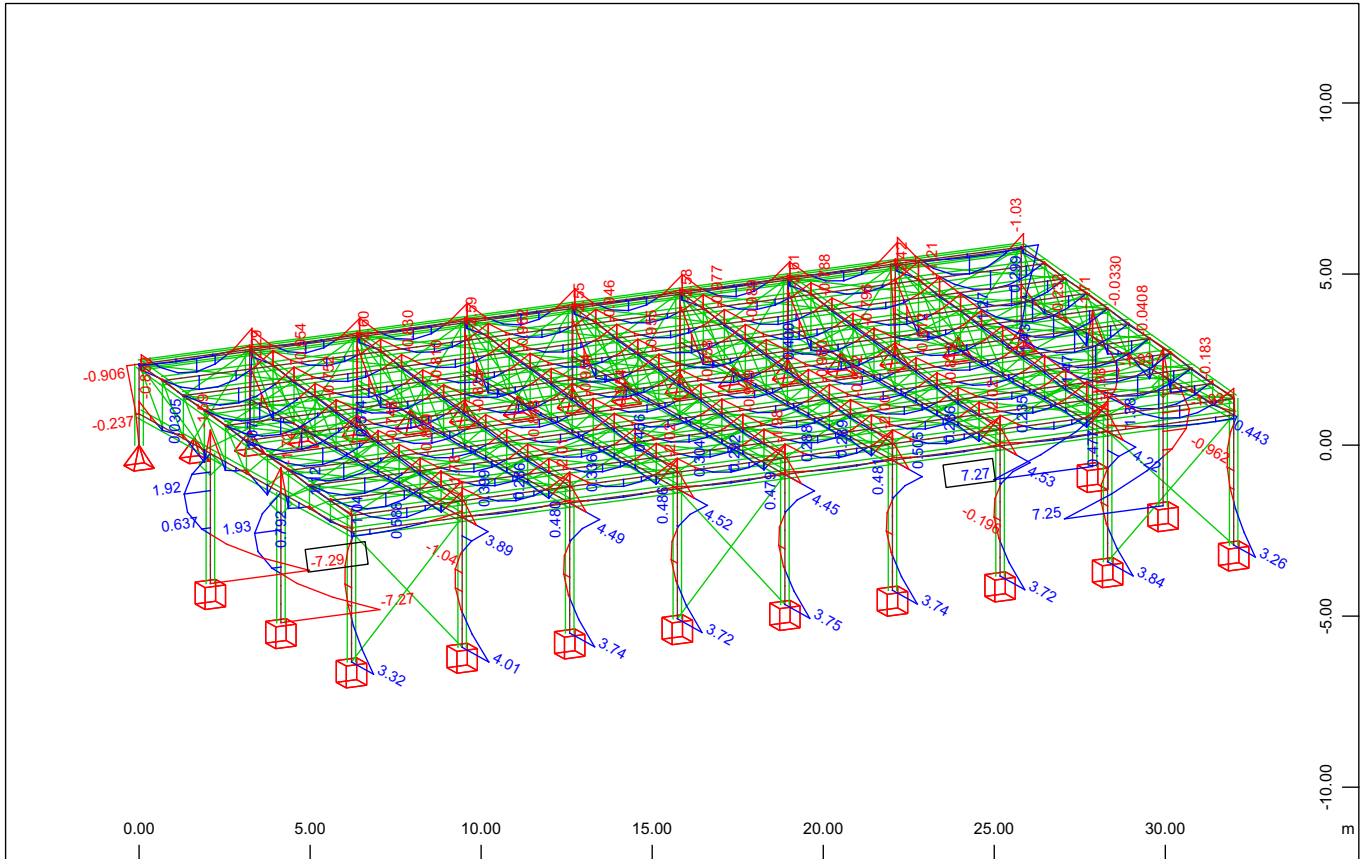
Load Case 1007 ((D)) 2nd Order Theory 1.35G+1.5S

Factor forces and moments	1.000
Factor dead weight DL-XX	0.000
Factor dead weight DL-YY	0.000
Factor dead weight DL-ZZ	-1.350
Selected loads copied from load case	1 with factor 1.350
Selected loads copied from load case	3 with factor 1.500

Sum of Loadings

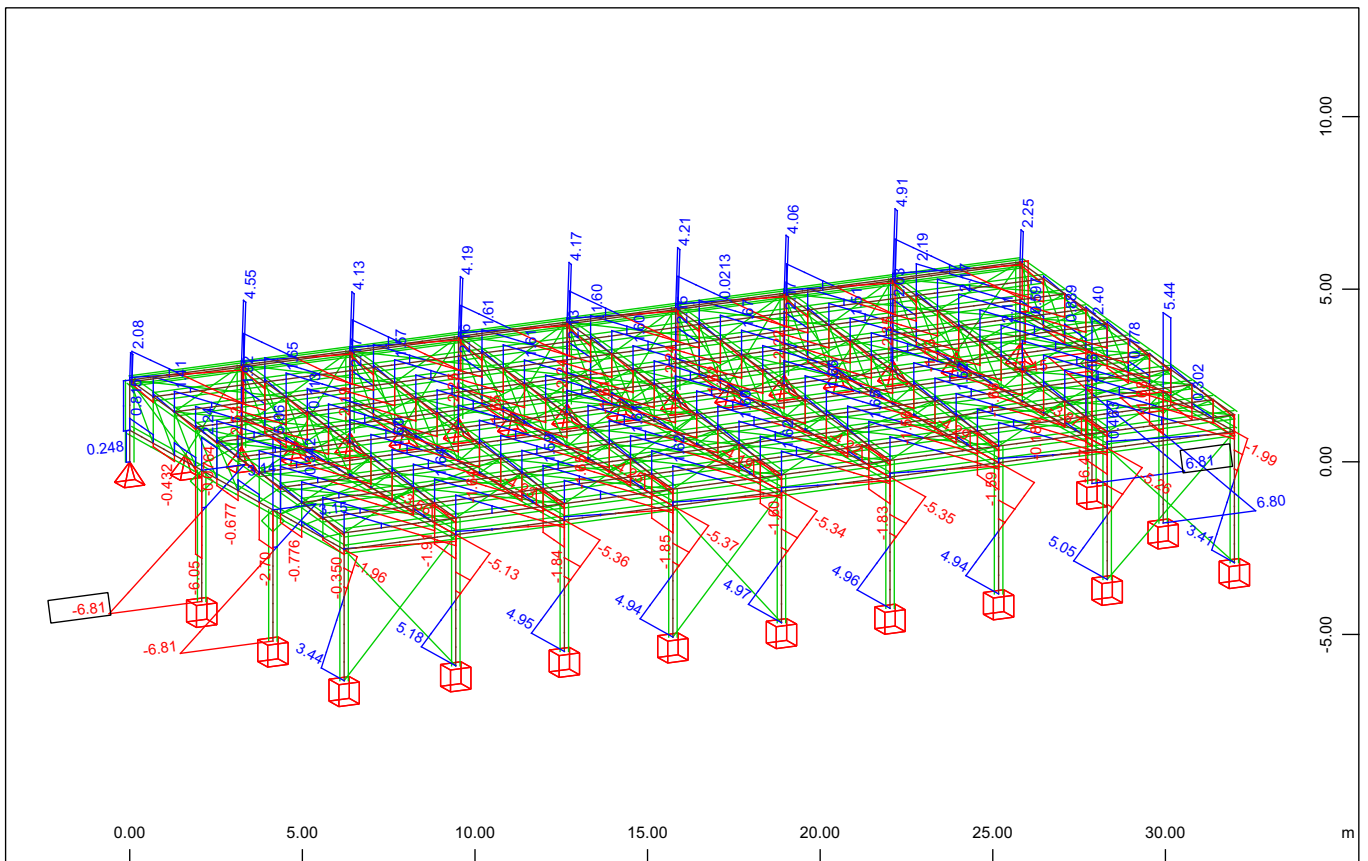
Loadcase	Σ (Loads)			Designation
	X[kN]	Y[kN]	Z[kN]	
1007	0.0	0.0	-442.8	1.35G+1.5S

Graphical Output



Beam Elements, Bending moment My, nonlinear Loadcase 1001 1.35G+1.5Q+0.75S+0.9W, 1 cm
 3D = 5.00 kNm (Min=-7.29) (Max=7.27)

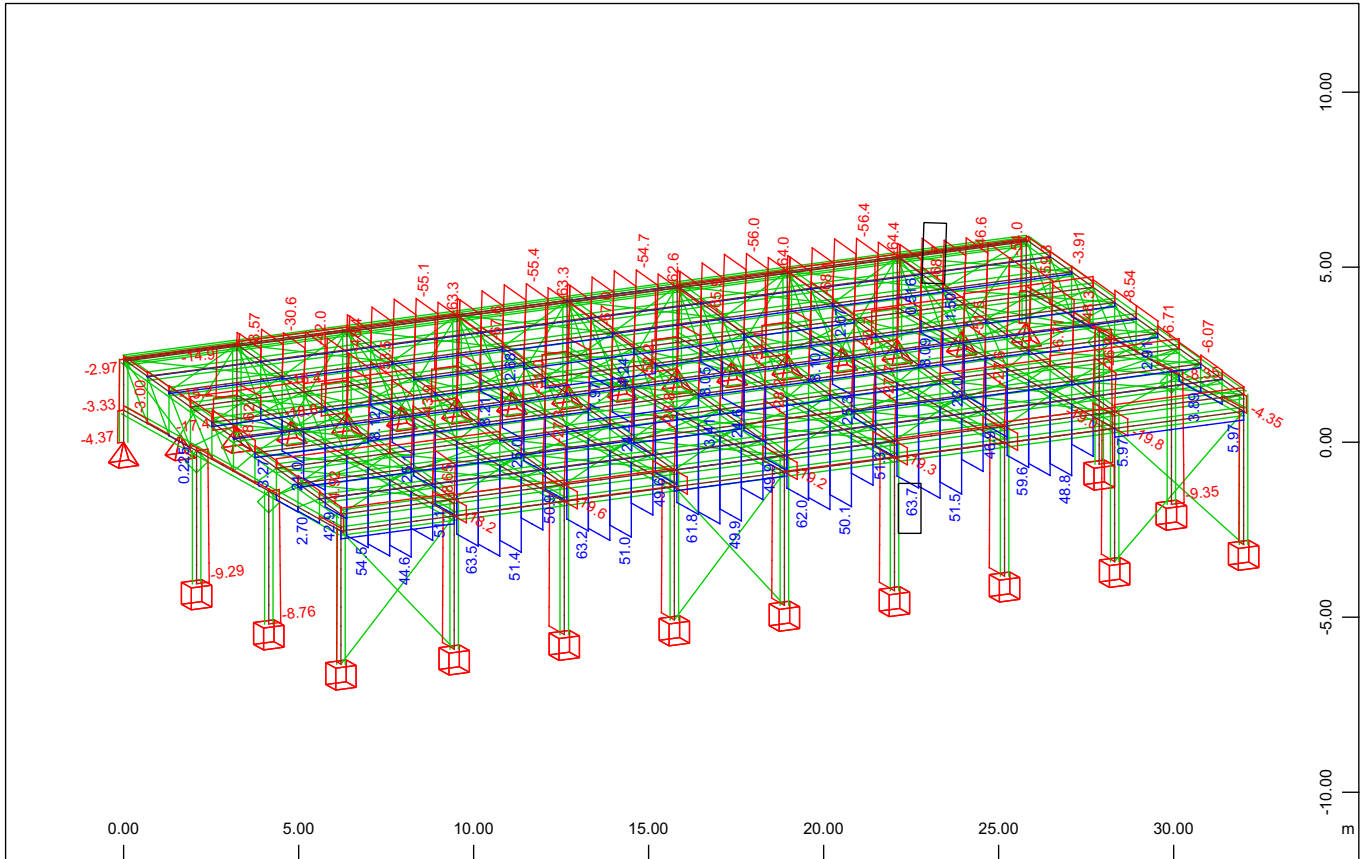
M 1 : 221
 X * 0.502
 Y * 0.906
 Z * 0.962



Beam Elements, Shear force Vz, nonlinear Loadcase 1001 1.35G+1.5Q+0.75S+0.9W, 1 cm 3D
 = 5.00 kN (Min=-6.81) (Max=6.81)

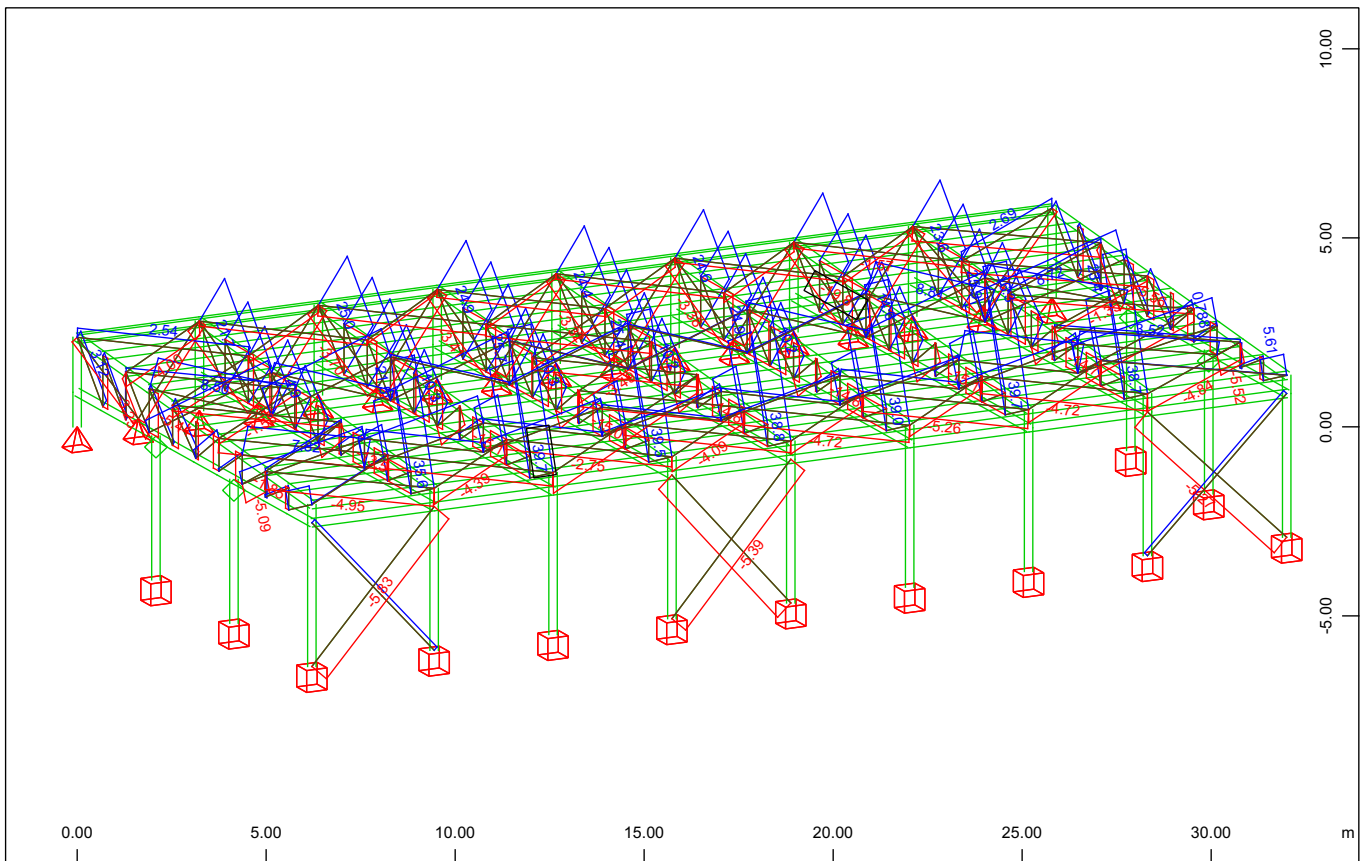
M 1 : 219
 X * 0.502
 Y * 0.906
 Z * 0.962

Graphical Output



Beam Elements, Normal force Nx, nonlinear Loadcase 1001 1.35G+1.5Q+0.75S+0.9W, 1 cm 3D
 = 50.0 kN (Min=-68.7) (Max=63.7)

M 1 : 216
 X * 0.502
 Y * 0.906
 Z * 0.962



Truss Elements, Normal force Nx, nonlinear Loadcase 1001 1.35G+1.5Q+0.75S+0.9W, 1 cm 3D
 = 20.0 kN (Min=-19.8) (Max=39.7)

M 1 : 200
 X * 0.502
 Y * 0.906
 Z * 0.962

Steel - Resistance of Cross Sections

Materials

Mat	Classification	γ -M
1	S 235 (EN 1993)	1.00

Selected Beam Elements

Selection	NoA	NoE	x[m]	Type
SLN 1	10001	10002		
SLN 2	10003	10004		
SLN 3	10005	10006		
SLN 4	10007	10008		
SLN 5	10009	10010		
SLN 6	10011	10012		
SLN 7	10013	10014		
SLN 8	10015	10016		
SLN 9	10017	10018		
SLN 201	20001			
SLN 202	20002			
SLN 203	20003			
SLN 204	20004			
SLN 205	20005			
SLN 206	20006			
SLN 207	20007			
SLN 208	20008			
SLN 209	20009			
SLN 210	20010			
SLN 211	20011			
SLN 212	20012			
SLN 213	20013			
SLN 301	30001	30003		
SLN 302	30004	30009		
SLN 303	30010	30012		
SLN 304	30013	30014		
SLN 305	30015			
SLN 306	30016			
SLN 307	30017			
SLN 308	30018			
SLN 309	30019			
SLN 310	30020			
SLN 311	30021			
SLN 312	30022			
SLN 313	30023			
SLN 314	30024			
SLN 315	30025	30028		
SLN 316	30029	30031		
SLN 317	30032	30034		
SLN 318	30035	30038		
SLN 319	30039	30041		
SLN 320	30042	30043		
SLN 321	30044	30046		
SLN 322	30047	30048		
SLN 323	30049			
SLN 324	30050			
SLN 325	30051			
SLN 326	30052			
SLN 327	30053			
SLN 328	30054			
SLN 329	30055			
SLN 330	30056			
SLN 331	30057			
SLN 332	30058			

Steel - Resistance of Cross Sections

Selected Beam Elements

Selection	NoA	NoE	x[m]	Type
SLN 333	30059	30061		
SLN 334	30062	30065		
SLN 335	30066	30068		
SLN 336	30069	30070		
SLN 337	30071			
SLN 338	30072			
SLN 339	30073			
SLN 340	30074			
SLN 341	30075	30077		
SLN 342	30078	30081		
SLN 343	30082	30084		
SLN 344	30085	30086		
SLN 345	30087			
SLN 346	30088			
SLN 347	30089			
SLN 348	30090			
SLN 349	30091			
SLN 350	30092			
SLN 351	30093			
SLN 352	30094			
SLN 353	30095			
SLN 354	30096			
SLN 355	30097	30099		
SLN 356	30100	30103		
SLN 357	30104	30106		
SLN 358	30107	30110		
SLN 359	30111	30113		
SLN 360	30114	30115		
SLN 361	30116			
SLN 362	30117			
SLN 363	30118			
SLN 364	30119			
SLN 365	30120			
SLN 366	30121			
SLN 367	30122			
SLN 368	30123			
SLN 369	30124			
SLN 370	30125			
SLN 371	30126	30128		
SLN 372	30129	30130		
SLN 373	30131			
SLN 374	30132			
SLN 375	30133			
SLN 376	30134			
SLN 377	30135			
SLN 378	30136			
SLN 379	30137			
SLN 380	30138			
SLN 381	30139			
SLN 382	30140			
SLN 383	30141			
SLN 384	30142			
SLN 385	30143			
SLN 386	30144			
SLN 387	30145			
SLN 388	30146			
SLN 389	30147			
SLN 390	30148			

Steel - Resistance of Cross Sections

Selected Beam Elements

Selection	NoA	NoE	x[m]	Type
SLN 391	30149			
SLN 392	30150			
SLN 393	30151			
SLN 394	30152			
SLN 395	30153			
SLN 396	30154			
SLN 397	30155			
SLN 398	30156			
SLN 399	30157	30159		
SLN 400	30160	30163		
SLN 534	30164	30166		
SLN 550	30167	30168		
SLN 551	30169			
SLN 552	30170			
SLN 553	30171			
SLN 554	30172			
SLN 555	30173			
SLN 556	30174			
SLN 557	30175			
SLN 558	30176			
SLN 559	30177			
SLN 560	30178			
SLN 569	30179	30181		
SLN 570	30182	30187		
SLN 571	30188	30190		
SLN 572	30191	30192		
SLN 573	30193			
SLN 574	30194			
SLN 575	30195			
SLN 576	30196			
SLN 577	30197			
SLN 578	30198			
SLN 579	30199			
SLN 580	30200			
SLN 581	30201			
SLN 582	30202			
SLN 601	60001			
SLN 602	60002			
SLN 603	60003			
SLN 604	60004			
SLN 605	60005			
SLN 606	60006			
SLN 607	60007			
SLN 608	60008			
SLN 609	60009			
SLN 610	60010			
SLN 611	60011			
SLN 612	60012			
SLN 613	60013			
SLN 614	60014			
SLN 615	60015			
SLN 616	60016			
SLN 617	60017			
SLN 618	60018			
SLN 619	60019			
SLN 620	60020			
SLN 621	60021			
SLN 622	60022			

Steel - Resistance of Cross Sections

Selected Beam Elements

Selection	NoA	NoE	x[m]	Type
SLN 623	60023			
SLN 624	60024			
SLN 625	60025			
SLN 626	60026			
SLN 627	60027			
SLN 628	60028			
SLN 629	60029			
SLN 630	60030			
SLN 631	60031			
SLN 632	60032			
SLN 633	60033			
SLN 634	60034			
SLN 635	60035			
SLN 636	60036			
SLN 637	60037			
SLN 638	60038			
SLN 639	60039			
SLN 640	60040			
SLN 641	60041			
SLN 642	60042			
SLN 643	60043			
SLN 644	60044			
SLN 645	60045			
SLN 646	60046			
SLN 647	60047			
SLN 648	60048			
SLN 649	60049			
SLN 650	60050			
SLN 651	60051			
SLN 652	60052			
SLN 653	60053			
SLN 654	60054			
SLN 655	60055			
SLN 656	60056			
SLN 657	60057			
SLN 658	60058			
SLN 659	60059			
SLN 660	60060			
SLN 661	60061			
SLN 662	60062			
SLN 663	60063			
SLN 664	60064			
SLN 665	60065			
SLN 666	60066			
SLN 667	60067			
SLN 668	60068			
SLN 669	60069			
SLN 670	60070			
SLN 671	60071			
SLN 672	60072			
SLN 673	60073			
SLN 674	60074			
SLN 675	60075			
SLN 676	60076			
SLN 677	60077			
SLN 678	60078			
SLN 679	60079			
SLN 680	60080			

Steel - Resistance of Cross Sections

Selected Beam Elements

Selection	NoA	NoE	x[m]	Type
SLN 681	60081			
SLN 682	60082			
SLN 683	60083			
SLN 684	60084			
SLN 685	60085			
SLN 686	60086			
SLN 687	60087			
SLN 688	60088			
SLN 701	70001			
SLN 702	70002			
SLN 703	70003			
SLN 704	70004			
SLN 705	70005			
SLN 706	70006			
SLN 707	70007			
SLN 708	70008			
SLN 709	70009			
SLN 710	70010			
SLN 711	70011			
SLN 712	70012			
SLN 713	70013			
SLN 714	70014			
SLN 715	70015			
SLN 716	70016			
NoA, NoE range of element numbers				
x[m] x-ordinate of beam section or station on axis				
Type element type				

Considered Load Cases

LC	ACT	REF	CS	Designation	$\gamma-u$	$\gamma-f$	$\psi-0$	$\psi-1$	$\psi-2$	$\psi-1'$	SUP
1001	(D)	T.L.		1.35G+1.5Q+0.75S+0.9W							
1002	(D)	T.L.		1.35G+1.5S+1.05Q+0.9W							
1003	(D)	T.L.		1.35G+1.5Q+0.75S+0.9W							
1004	(D)	T.L.		1.35G+1.5S+1.05Q+0.9W							
1005	(D)	T.L.		G+1.5W							
1006	(D)	T.L.		G+1.5W							
2221	(D)			MAX-N BEAM Forces in Beam Elemen							
2222	(D)			MIN-N BEAM Forces in Beam Elemen							
2223	(D)			MAX-VY BEAM Forces in Beam Eleme							
2224	(D)			MIN-VY BEAM Forces in Beam Eleme							
2225	(D)			MAX-VZ BEAM Forces in Beam Eleme							
2226	(D)			MIN-VZ BEAM Forces in Beam Eleme							
2227	(D)			MAX-MT BEAM Forces in Beam Eleme							
2228	(D)			MIN-MT BEAM Forces in Beam Eleme							
2229	(D)			MAX-MY BEAM Forces in Beam Eleme							
2230	(D)			MIN-MY BEAM Forces in Beam Eleme							
2231	(D)			MAX-MZ BEAM Forces in Beam Eleme							
2232	(D)			MIN-MZ BEAM Forces in Beam Eleme							
2233	(D)			MAX-MB BEAM Forces in Beam Eleme							
2234	(D)			MIN-MB BEAM Forces in Beam Eleme							
2235	(D)			MAX-MT2 BEAM Forces in Beam Elem							
2236	(D)			MIN-MT2 BEAM Forces in Beam Elem							
2321	(D)			MAX-N BEAM Forces in Beam Elemen							
2322	(D)			MIN-N BEAM Forces in Beam Elemen							
2323	(D)			MAX-VY BEAM Forces in Beam Eleme							
2324	(D)			MIN-VY BEAM Forces in Beam Eleme							
2325	(D)			MAX-VZ BEAM Forces in Beam Eleme							
2326	(D)			MIN-VZ BEAM Forces in Beam Eleme							
2327	(D)			MAX-MT BEAM Forces in Beam Eleme							

Steel - Resistance of Cross Sections

Considered Load Cases

LC	ACT	REF	CS	Designation	$\gamma-u$	$\gamma-f$	$\psi-0$	$\psi-1$	$\psi-2$	$\psi-1'$	SUP
2328	(D)			MIN-MT BEAM Forces in Beam Eleme							
2329	(D)			MAX-MY BEAM Forces in Beam Eleme							
2330	(D)			MIN-MY BEAM Forces in Beam Eleme							
2331	(D)			MAX-MZ BEAM Forces in Beam Eleme							
2332	(D)			MIN-MZ BEAM Forces in Beam Eleme							
2333	(D)			MAX-MB BEAM Forces in Beam Eleme							
2334	(D)			MIN-MB BEAM Forces in Beam Eleme							
2335	(D)			MAX-MT2 BEAM Forces in Beam Elem							
2336	(D)			MIN-MT2 BEAM Forces in Beam Elem							
LC load case ACT action REF reference point for forces and moments CS section the load case is acting on SUP action type, group and superposition category											

Elastic Stress Check

Combinations of Load Cases

Results are saved for load cases	1001	1002	1003	1004	1005	1006	2221
Results are saved for load cases	2222	2223	2224	2225	2226	2227	2228
Results are saved for load cases	2229	2230	2231	2232	2233	2234	2235
Results are saved for load cases	2236	2321	2322	2323	2324	2325	2326
Results are saved for load cases	2327	2328	2329	2330	2331	2332	2333
Results are saved for load cases	2334	2335	2336				
Maximum results are saved to load case	901 GlobalMAX SIGMA						

Stresses

All stresses shown in [MPa]

Beam	x[m]	SNO	LC	Mat	$\sigma-x$	$\sigma+x$	$\Delta\sigma$	τ	$\sigma-I$	$\sigma-II$	$\sigma-v$	N[kN]
10001	0.000	1	min	1	-1.03	1.68		1.40	3.87	-4.71	7.21	
			max	1	-35.07	40.17		12.58	40.17	-35.33	40.17	
	0.755	1	min	1	-0.83	1.32		1.40	3.92	-4.63	6.53	
			max	1	-43.78	43.25		11.80	44.16	-43.79	44.71	
	1.511	1	min	1	-4.39	5.13		1.40	6.25	-6.71	8.64	
			max	1	-91.48	90.83		11.02	91.20	-91.49	91.50	
10002	0.000	1	min	1	-12.28	12.50		1.21	12.51	-12.32	12.67	
			max	1	-123.37	120.87		10.70	121.05	-123.54	123.63	
	0.950	1	min	1	2.00	-1.95		0.43	0.46	-0.40	0.74	
			max	1	-1.95	2.00		11.67	11.03	-12.35	20.26	
			min	1	-5.33	-3.12		0.36	0.77	-5.90	5.91	
			max	1	-26.35	38.61		6.05	38.61	-26.37	38.62	
10003	0.000	1	min	1	-5.33	-3.12		0.36	0.77	-5.90	5.91	
			max	1	-26.35	38.61		6.05	38.61	-26.37	38.62	
	0.755	1	min	1	0.53	1.81		0.24	1.82	-0.12	7.85	
			max	1	-39.85	35.65		4.56	35.76	-39.93	39.98	
	1.511	1	min	1	-6.51	0.94		0.42	2.47	-6.89	7.25	
			max	1	-69.30	66.52		6.15	66.54	-69.33	69.35	
10004	0.000	1	min	1	-14.28	8.13		0.59	8.16	-14.29	14.29	
			max	1	-97.75	93.28		7.78	93.45	-97.91	97.99	
	0.950	1	min	1	12.01	-11.65		0.51	0.30	-0.05	3.82	
			max	1	-11.65	12.01		9.66	12.34	-12.86	16.90	
			min	1	-4.62	-4.72		0.35	0.25	-4.74	5.79	
			max	1	-25.42	27.77		6.05	27.88	-25.43	27.94	
10005	0.000	1	min	1	-4.62	-4.72		0.35	0.25	-4.74	5.79	
			max	1	-25.42	27.77		6.05	27.88	-25.43	27.94	
	0.755	1	min	1	2.63	3.04		0.40	3.05	-0.16	7.00	
			max	1	-43.67	36.14		4.56	36.30	-43.72	43.75	
	1.511	1	min	1	-10.72	6.03		0.40	6.03	-10.95	12.88	
			max	1	-70.25	67.93		5.32	67.96	-70.28	70.29	
10006	0.000	1	min	1	-18.51	13.24		1.04	13.28	-18.67	20.64	
			max	1	-102.16	94.98		7.93	95.16	-102.32	102.40	
	0.950	1	min	1	10.33	-13.04		0.18	0.55	-0.01	3.74	
			max	1	-13.04	10.33		9.80	10.71	-15.23	17.83	
			min	1	-3.47	-4.38		0.34	0.29	-3.65	5.52	
			max	1	-25.93	24.84		6.01	24.85	-25.94	25.95	

Steel - Resistance of Cross Sections

Beam	x[m]	SNo	LC	Mat	$\sigma-x$	$\sigma+x$	$\Delta\sigma$	τ	$\sigma-I$	$\sigma-II$	$\sigma-v$	N[kN]
10007	0.755	1	min	1	1.15	2.84		0.34	2.85	-0.12	7.84	
			max	1	-44.09	35.95		4.52	36.10	-44.14	44.17	
	1.511	1	min	1	-0.73	5.32		0.34	5.53	-3.01	6.93	
			max	1	-69.67	67.34		3.63	67.37	-69.69	69.70	
10008	0.000	1	min	1	-14.68	13.65		1.58	13.69	-14.81	21.04	
			max	1	-102.79	94.11		7.99	94.28	-102.94	103.02	
	0.950	1	min	1	9.76	-13.07		0.33	0.58	-0.03	3.44	
			max	1	-13.07	9.76		9.72	10.28	-15.39	17.91	
10009	0.000	1	min	1	-3.76	-4.54		0.28	0.28	-3.81	5.96	
			max	1	-26.20	25.43		5.99	25.50	-26.21	26.22	
	0.755	1	min	1	1.92	2.87		0.32	2.88	-0.09	7.09	
			max	1	-43.24	36.14		4.50	36.29	-43.31	43.34	
	1.511	1	min	1	-5.53	5.50		0.32	5.50	-5.73	12.36	
			max	1	-70.15	68.05		3.44	68.09	-70.18	70.20	
10010	0.000	1	min	1	-12.22	12.57		1.48	12.62	-12.35	19.97	
			max	1	-100.72	94.97		7.91	95.15	-100.88	100.97	
	0.950	1	min	1	9.76	-13.07		0.59	0.51	-0.08	4.56	
			max	1	-13.07	9.76		9.79	10.10	-15.11	17.61	
10011	0.000	1	min	1	-3.83	-4.61		0.26	0.26	-3.92	5.72	
			max	1	-25.93	25.15		5.97	25.24	-25.94	25.94	
	0.755	1	min	1	3.34	2.72		0.30	2.72	-0.04	3.85	
			max	1	-42.78	36.42		4.47	36.57	-42.85	42.88	
	1.511	1	min	1	1.28	3.06		0.30	4.19	-2.00	5.18	
			max	1	-70.81	68.70		3.20	68.74	-70.85	70.86	
10012	0.000	1	min	1	0.21	3.99		1.16	4.30	-1.26	4.56	
			max	1	-99.73	95.84		7.99	96.02	-99.89	99.98	
	0.950	1	min	1	9.47	-12.91		0.34	0.49	-0.03	3.65	
			max	1	-12.91	9.47		9.87	10.00	-14.81	17.45	
10013	0.000	1	min	1	-3.29	-4.68		0.28	0.25	-5.07	5.98	
			max	1	-26.24	27.30		6.03	27.37	-26.25	27.41	
	0.755	1	min	1	6.21	2.89		0.32	2.90	-0.03	4.89	
			max	1	-43.43	36.46		4.54	36.62	-43.50	43.54	
	1.511	1	min	1	-2.00	5.60		0.32	5.60	-4.96	10.12	
			max	1	-70.95	68.78		4.79	68.82	-70.98	71.00	
10014	0.000	1	min	1	-12.57	12.77		1.35	12.82	-12.77	20.27	
			max	1	-101.33	96.00		8.01	96.18	-101.49	101.58	
	0.950	1	min	1	9.90	-13.15		0.09	0.52	-0.00	3.50	
			max	1	-13.15	9.90		9.89	10.01	-15.17	17.72	
10015	0.000	1	min	1	-5.97	-1.43		0.43	1.36	-6.03	6.99	
			max	1	-31.27	29.82		6.03	29.85	-31.29	31.31	
	0.755	1	min	1	1.09	2.89		0.12	2.89	-0.01	7.93	
			max	1	-43.82	36.01		4.54	36.11	-43.90	43.95	
	1.511	1	min	1	-4.83	4.28		0.50	4.28	-4.95	11.02	
			max	1	-69.15	66.22		3.04	66.24	-69.18	69.20	
10016	0.000	1	min	1	-10.74	10.45		1.29	10.48	-10.84	17.65	
			max	1	-97.41	92.80		7.75	92.94	-97.55	97.63	
	0.950	1	min	1	9.68	-12.92		0.46	0.41	-0.05	4.29	
			max	1	-12.92	9.68		9.63	9.92	-14.58	17.00	
10017	0.000	1	min	1	-8.95	7.64		0.74	7.64	-8.98	9.00	
			max	1	-33.35	29.71		12.42	29.71	-33.46	33.51	
	0.755	1	min	1	-7.47	5.05		1.44	5.19	-7.49	7.51	
			max	1	-44.56	44.37		11.65	45.22	-44.57	45.72	
	1.511	1	min	1	-12.34	10.75		1.44	10.75	-12.37	12.39	
			max	1	-91.50	91.19		10.85	91.56	-91.51	91.74	
10018	0.000	1	min	1	-14.40	12.84		1.26	12.86	-14.41	14.42	
			max	1	-122.99	120.86		10.68	121.03	-123.16	123.25	
	0.950	1	min	1	0.19	-2.24		0.88	0.42	-1.76	2.07	
			max	1	-2.24	0.19		11.66	11.11	-12.25	20.23	
20001	0.000	2	min	1	-6.24	4.24		0.41	4.24	-6.24	6.24	

Steel - Resistance of Cross Sections

Beam	x[m]	SNo	LC	Mat	$\sigma-x$	$\sigma+x$	$\Delta\sigma$	τ	$\sigma-I$	$\sigma-II$	$\sigma-v$	N[kN]
20001	0.000	2	max	1	-152.26	162.92		9.76	162.92	-152.26	162.92	
	0.564	2	min	1	-4.77	2.67		0.41	2.67	-4.77	4.77	
			max	1	-42.35	43.04		7.47	43.04	-42.35	43.04	
	1.129	2	min	1	-3.30	1.10		0.41	1.10	-3.30	3.30	
			max	1	-56.63	57.22		5.19	57.22	-56.63	57.22	
	1.693	2	min	1	-1.84	-1.44		0.41	0.13	-1.84	1.84	
			max	1	-86.10	94.98		3.39	94.98	-86.10	94.98	
	2.257	2	min	1	-2.35	-0.07		0.41	0.21	-2.35	2.35	
			max	1	-83.39	93.69		4.92	93.69	-83.39	93.69	
	2.821	2	min	1	-3.61	1.10		0.41	1.10	-3.61	3.61	
			max	1	-43.81	50.55		6.46	50.55	-43.81	50.55	
	3.386	2	min	1	-5.18	2.57		0.41	2.57	-5.18	5.18	
			max	1	-76.34	76.58		8.35	76.58	-76.34	76.58	
20002	0.000	2	min	1	-2.99	-2.97		0.98	3.59	-7.19	9.55	
			max	1	-62.01	86.21		14.29	86.21	-62.01	86.21	
	0.564	2	min	1	-9.91	-0.17		0.98	2.46	-9.91	9.93	
			max	1	-49.96	45.72		10.96	45.72	-49.96	49.96	
	1.129	2	min	1	9.03	-5.07		0.32	0.88	-2.01	9.43	
			max	1	-37.91	46.07		7.63	46.07	-37.91	46.07	
	1.693	2	min	1	-4.27	-0.07		0.27	0.35	-4.28	7.08	
			max	1	-25.86	37.66		4.30	37.66	-25.86	37.66	
	2.257	2	min	1	-3.91	-11.40		0.07	0.25	-3.99	4.09	
			max	1	-18.98	36.09		7.00	36.09	-18.98	36.09	
	2.821	2	min	1	-4.80	-5.99		0.98	0.42	-5.07	6.61	
			max	1	-23.55	32.77		9.93	32.77	-23.55	32.77	
20003	0.000	2	min	1	-2.47	0.95		1.15	4.45	-7.22	11.78	
			max	1	-74.04	85.63		14.10	85.63	-74.04	85.63	
	0.564	2	min	1	-8.28	-0.22		1.15	2.60	-8.32	13.06	
			max	1	-60.16	53.29		10.77	53.29	-60.16	60.16	
	1.129	2	min	1	11.14	-8.08		0.50	0.83	-1.87	9.87	
			max	1	-46.28	52.47		7.44	52.47	-46.28	52.47	
	1.693	2	min	1	-2.70	-4.05		0.76	0.20	-3.07	8.88	
			max	1	-32.40	42.19		4.64	42.19	-32.40	42.19	
	2.257	2	min	1	-4.60	-14.23		0.03	0.06	-5.25	5.35	
			max	1	-22.60	37.31		7.57	37.31	-22.60	37.31	
	2.821	2	min	1	-4.40	-8.18		1.15	0.40	-4.40	7.86	
			max	1	-28.21	33.72		10.49	33.72	-28.21	33.72	
20004	0.000	2	min	1	-2.46	1.00		1.15	6.48	-7.21	11.79	
			max	1	-74.62	73.81		10.08	73.81	-74.62	74.62	
	0.564	2	min	1	-8.54	-0.09		0.87	2.66	-8.58	13.16	
			max	1	-60.63	53.68		7.97	53.68	-60.63	60.63	
	1.129	2	min	1	3.91	-7.92		0.37	0.84	-1.35	9.61	
			max	1	-46.63	52.80		5.85	52.80	-46.63	52.80	
	1.693	2	min	1	6.72	-4.13		0.93	0.20	-0.87	8.91	
			max	1	-32.64	42.45		4.66	42.45	-32.64	42.45	
	2.257	2	min	1	-1.88	-14.13		0.55	0.06	-1.88	5.36	
			max	1	-18.65	27.74		7.59	27.74	-18.91	27.74	
	2.821	2	min	1	-2.76	-8.16		0.53	0.40	-2.76	7.84	
			max	1	-28.23	29.45		10.52	29.45	-28.23	29.45	

Steel - Resistance of Cross Sections

Beam	x[m]	SNo	LC	Mat	$\sigma-x$	$\sigma+x$	$\Delta\sigma$	τ	$\sigma-I$	$\sigma-II$	$\sigma-v$	N[kN]
20004	3.386	2	min	1	1.56	-0.67		1.15	2.22	-0.88	10.52	
			max	1	-45.40	62.46		13.44	62.46	-45.40	62.46	
	3.950	2	min	1	11.69	5.93		1.15	5.93	-1.58	10.58	
			max	1	-93.61	110.58		16.38	110.58	-93.61	110.58	
20005	0.000	2	min	1	-2.42	1.22		1.17	6.49	-7.10	11.65	
			max	1	-74.70	74.08		10.14	74.10	-74.70	74.70	
	0.564	2	min	1	-8.73	-0.62		0.87	2.57	-8.75	12.61	
			max	1	-60.60	53.77		8.02	53.77	-60.60	60.60	
	1.129	2	min	1	3.76	-8.26		0.21	0.83	-1.39	9.64	
			max	1	-46.50	52.75		5.90	52.75	-46.50	52.75	
	1.693	2	min	1	6.48	-4.02		0.92	0.19	-0.92	8.87	
			max	1	-32.39	42.27		4.72	42.27	-32.39	42.27	
	2.257	2	min	1	-2.27	-14.30		0.58	0.06	-2.27	5.30	
			max	1	-18.29	28.02		7.64	28.02	-18.62	28.02	
	2.821	2	min	1	-3.04	-8.06		0.46	0.42	-3.04	7.93	
			max	1	-28.51	29.88		10.57	29.88	-28.51	29.88	
	3.386	2	min	1	1.20	-0.60		1.17	2.39	-0.93	10.83	
			max	1	-45.97	63.17		13.50	63.17	-45.97	63.17	
	3.950	2	min	1	12.46	6.14		1.17	6.14	-1.55	10.17	
			max	1	-94.32	111.43		16.42	111.43	-94.32	111.43	
20006	0.000	2	min	1	-1.94	0.77		1.18	6.48	-7.07	11.63	
			max	1	-71.71	71.37		10.24	71.37	-71.71	71.71	
	0.564	2	min	1	-10.67	0.42		0.87	2.97	-10.67	11.60	
			max	1	-57.59	51.36		8.12	51.36	-57.59	57.59	
	1.129	2	min	1	1.53	-6.70		0.36	0.96	-1.75	7.97	
			max	1	-43.47	50.48		6.00	50.48	-43.47	50.48	
	1.693	2	min	1	2.38	-2.25		0.92	0.28	-1.64	8.18	
			max	1	-29.35	40.12		4.67	40.12	-29.35	40.12	
	2.257	2	min	1	-4.39	-11.62		0.57	0.10	-4.51	4.63	
			max	1	-17.32	25.12		7.59	25.12	-17.32	25.12	
	2.821	2	min	1	-4.92	-6.42		0.49	0.57	-4.92	7.31	
			max	1	-25.84	26.70		10.52	26.70	-25.84	26.70	
	3.386	2	min	1	-0.73	1.10		1.18	3.19	-1.56	9.22	
			max	1	-47.74	61.48		13.44	61.49	-47.77	61.53	
	3.950	2	min	1	8.79	6.98		1.18	6.98	-1.98	8.61	
			max	1	-95.95	109.61		16.38	109.61	-95.95	109.61	
20007	0.000	2	min	1	-2.40	0.99		1.19	6.43	-7.14	11.66	
			max	1	-72.27	81.13		13.95	81.13	-72.27	81.13	
	0.564	2	min	1	-8.14	0.50		1.14	3.01	-8.29	11.95	
			max	1	-58.11	51.97		10.62	51.97	-58.11	58.11	
	1.129	2	min	1	10.40	-6.74		0.33	0.96	-2.07	9.54	
			max	1	-43.95	50.95		7.29	50.95	-43.95	50.95	
	1.693	2	min	1	-5.86	-2.70		0.92	0.26	-5.86	8.28	
			max	1	-30.30	40.46		4.71	40.46	-30.30	40.46	
	2.257	2	min	1	-4.49	-11.73		0.12	0.08	-4.61	4.72	
			max	1	-21.66	35.71		7.63	35.71	-21.66	35.71	
	2.821	2	min	1	-5.48	-6.61		1.19	0.56	-5.48	7.35	
			max	1	-26.03	31.67		10.56	31.67	-26.03	31.67	
	3.386	2	min	1	6.04	0.74		1.19	3.06	-2.23	9.01	
			max	1	-47.79	61.59		13.49	61.59	-47.79	61.59	
	3.950	2	min	1	-8.71	6.89		1.19	6.89	-10.50	15.13	
			max	1	-96.14	109.85		16.40	109.85	-96.14	109.85	
20008	0.000	2	min	1	-2.95	1.92		0.91	6.77	-7.26	12.03	
			max	1	-68.30	70.94		10.03	70.94	-68.30	70.94	
	0.564	2	min	1	-8.41	0.41		0.91	2.66	-8.41	11.83	
			max	1	-55.27	47.75		7.91	47.75	-55.27	55.27	
	1.129	2	min	1	3.95	-7.10		0.22	0.89	-1.25	8.36	
			max	1	-42.23	48.39		5.79	48.39	-42.23	48.39	
	1.693	2	min	1	3.24	-1.46		0.38	0.28	-1.03	6.84	
			max	1								

Steel - Resistance of Cross Sections

Beam	x[m]	SNo	LC	Mat	$\sigma-x$	$\sigma+x$	$\Delta\sigma$	τ	$\sigma-I$	$\sigma-II$	$\sigma-v$	N[kN]
20008	1.693	2	max	1	-29.20	39.56		4.23	39.56	-29.20	39.56	
	2.257	2	min	1	-3.67	-12.44		0.39	0.17	-3.68	4.03	
			max	1	-16.28	27.71		7.16	27.71	-16.29	27.71	
	2.821	2	min	1	-2.75	-6.75		0.87	0.34	-2.75	6.18	
			max	1	-25.57	27.76		10.08	27.76	-25.57	27.76	
	3.386	2	min	1	1.94	1.40		0.91	1.96	-0.93	9.20	
			max	1	-43.94	58.95		13.01	58.96	-43.97	58.99	
	3.950	2	min	1	7.21	4.90		0.91	4.90	-1.96	11.74	
20009			max	1	-90.65	105.57		15.91	105.57	-90.65	105.59	
	0.000	2	min	1	-6.78	4.51		0.41	4.51	-6.78	6.78	
			max	1	-131.78	133.01		7.41	133.01	-131.78	133.01	
	0.564	2	min	1	-5.22	2.85		0.41	2.85	-5.22	5.22	
			max	1	-41.85	43.00		5.35	43.00	-41.85	43.00	
	1.129	2	min	1	-3.19	1.04		0.36	1.04	-3.19	3.19	
			max	1	-56.75	57.81		4.22	57.81	-56.75	57.81	
	1.693	2	min	1	-1.84	-1.58		0.33	0.11	-1.84	1.84	
			max	1	-81.23	80.24		3.40	80.24	-81.23	81.23	
	2.257	2	min	1	-2.20	-0.18		0.36	0.16	-2.20	2.20	
			max	1	-68.83	65.97		4.94	65.97	-68.83	68.83	
	2.821	2	min	1	-3.30	0.88		0.36	0.88	-3.30	3.30	
			max	1	-43.47	44.26		6.47	44.26	-43.47	44.26	
	3.386	2	min	1	-4.74	2.23		0.36	2.23	-4.74	4.74	
			max	1	-76.18	76.88		8.38	76.89	-76.18	76.89	
	3.950	2	min	1	-6.19	3.59		0.36	3.59	-6.19	6.19	
			max	1	-202.88	203.50		9.07	203.50	-202.88	203.50	
20010	0.000	2	min	1	6.68	-5.95		0.15	0.01	-1.90	1.91	
			max	1	-5.95	6.68		8.94	12.59	-7.46	16.36	
	0.564	2	min	1	-2.62	-3.43		0.15	0.01	-2.62	2.62	
			max	1	-18.69	26.75		5.41	26.76	-18.70	26.77	
	1.129	2	min	1	-3.35	-0.96		0.15	0.02	-3.35	3.35	
			max	1	-28.23	35.40		2.65	35.41	-28.23	35.41	
	1.693	2	min	1	-4.08	-0.00		0.15	0.02	-4.08	4.08	
			max	1	-29.84	36.21		3.78	36.22	-29.85	36.22	
	2.257	2	min	1	-4.36	0.63		0.15	0.63	-4.81	4.81	
			max	1	-22.62	28.90		7.31	28.91	-22.62	28.91	
	2.821	2	min	1	-4.58	1.25		0.15	1.25	-4.60	5.54	
			max	1	-19.04	28.69		10.84	28.70	-19.04	28.71	
	3.386	2	min	1	-6.27	1.88		0.15	1.88	-6.27	6.27	
			max	1	-54.54	67.37		14.37	67.37	-54.54	67.38	
	3.950	2	min	1	-7.00	2.51		0.15	2.51	-7.00	7.00	
			max	1	-104.73	117.47		19.22	117.47	-104.73	117.47	
20011	0.000	2	min	1	7.73	-6.86		0.19	0.02	-2.16	2.16	
			max	1	-6.86	7.73		8.99	13.53	-7.27	17.20	
	0.564	2	min	1	-2.98	-3.90		0.19	0.02	-2.98	2.98	
			max	1	-17.27	28.06		5.57	28.08	-17.29	28.11	
	1.129	2	min	1	-3.83	-0.99		0.19	0.02	-3.83	3.83	
			max	1	-28.16	36.99		3.60	37.01	-28.16	37.01	
	1.693	2	min	1	-4.67	0.09		0.19	0.09	-4.67	4.67	
			max	1	-30.67	39.00		4.33	39.00	-30.68	39.00	
	2.257	2	min	1	-4.11	0.83		0.19	0.83	-4.47	5.52	
			max	1	-24.05	32.28		7.61	32.29	-24.06	32.29	
	2.821	2	min	1	-2.53	-1.03		0.19	1.58	-4.44	6.36	
			max	1	-22.14	29.84		11.14	29.86	-22.14	29.86	
	3.386	2	min	1	-7.21	2.32		0.19	2.32	-7.21	7.21	
			max	1	-54.03	68.94		14.67	68.94	-54.04	68.95	
	3.950	2	min	1	-8.05	3.06		0.19	3.06	-8.05	8.05	
			max	1	-104.84	119.65		17.83	119.65	-104.84	119.65	
20012	0.000	2	min	1	5.61	-7.28		0.18	0.01	-1.77	2.24	
			max	1	-7.28	5.61		8.38	10.94	-7.34	15.21	

Steel - Resistance of Cross Sections

Beam	x[m]	SNo	LC	Mat	$\sigma-x$	$\sigma+x$	$\Delta\sigma$	τ	$\sigma-I$	$\sigma-II$	$\sigma-v$	N[kN]
20012	0.564	2	min	1	-3.04	-4.37		0.18	0.01	-3.04	3.04	
			max	1	-16.21	25.19		5.56	25.19	-16.22	25.20	
	1.129	2	min	1	-3.87	-1.47		0.18	0.02	-3.87	3.87	
			max	1	-27.82	36.70		3.60	36.71	-27.82	36.71	
	1.693	2	min	1	-4.09	-0.06		0.16	0.02	-4.09	4.09	
			max	1	-30.28	39.08		3.46	39.08	-30.29	39.08	
	2.257	2	min	1	-4.66	-2.09		0.16	0.58	-4.66	4.81	
			max	1	-23.61	32.31		5.19	32.32	-23.61	32.32	
	2.821	2	min	1	-1.66	1.21		0.16	1.21	-1.89	5.53	
			max	1	-22.30	16.58		8.01	16.61	-22.30	22.30	
	3.386	2	min	1	-6.24	1.84		0.16	1.84	-6.24	6.24	
			max	1	-39.38	39.57		10.84	39.57	-39.39	39.58	
	3.950	2	min	1	-6.96	2.47		0.16	2.47	-6.96	6.96	
			max	1	-78.00	78.09		13.59	78.09	-78.00	78.09	
20013	0.000	2	min	1	4.69	-6.38		0.13	0.01	-1.73	1.74	
			max	1	-6.38	4.69		7.76	9.75	-7.46	13.91	
	0.564	2	min	1	-2.34	-3.91		0.13	0.01	-2.34	2.34	
			max	1	-18.67	23.62		4.94	23.63	-18.68	23.63	
	1.129	2	min	1	-2.96	-1.44		0.13	0.01	-2.96	2.96	
			max	1	-28.18	34.53		2.38	34.53	-28.18	34.53	
	1.693	2	min	1	-3.58	-0.17		0.13	0.01	-3.58	3.58	
			max	1	-29.41	36.29		2.60	36.30	-29.42	36.30	
	2.257	2	min	1	-4.20	-1.53		0.13	0.41	-4.20	4.20	
			max	1	-22.13	28.92		5.26	28.93	-22.14	28.93	
	2.821	2	min	1	-0.47	0.94		0.13	0.94	-1.90	4.82	
			max	1	-19.24	12.41		8.09	12.45	-19.24	19.24	
	3.386	2	min	1	-5.44	1.47		0.13	1.47	-5.44	5.44	
			max	1	-42.12	41.45		10.91	41.45	-42.12	42.13	
	3.950	2	min	1	-6.06	2.00		0.13	2.00	-6.06	6.06	
			max	1	-81.12	80.35		15.13	80.35	-81.13	81.13	
30001	0.000	3	min	1	-4.79	7.29		0.19	7.29	-4.79	7.29	
			max	1	-92.81	71.36		5.03	71.37	-92.84	92.85	
	0.775	3	min	1	0.30	2.94		0.35	2.95	-0.75	2.95	
			max	1	-40.24	18.90		4.89	18.94	-40.30	40.33	
	1.550	3	min	1	1.38	2.37		0.51	2.38	-0.41	2.39	
			max	1	-32.93	12.59		4.74	12.68	-32.95	32.95	
	0.000	3	min	1	3.64	3.16		0.18	3.16	-0.02	3.16	
			max	1	-33.46	13.28		2.01	13.29	-33.48	33.49	
30002	0.700	3	min	1	1.26	3.46		0.20	3.46	-0.03	3.46	
			max	1	-37.53	20.21		2.15	20.21	-37.55	37.56	
	1.400	3	min	1	-1.58	5.67		0.34	5.68	-1.58	5.68	
			max	1	-40.30	29.59		2.29	29.59	-40.33	40.35	
	0.000	3	min	1	-1.55	5.70		1.01	5.72	-1.81	5.73	
			max	1	-38.99	29.62		3.96	29.63	-39.07	39.11	
	0.700	3	min	1	-5.42	9.56		0.86	9.57	-5.43	9.57	
			max	1	-59.82	48.21		4.09	48.22	-59.85	59.86	
30003	1.400	3	min	1	-13.24	17.39		0.71	17.39	-13.25	17.39	
			max	1	-95.95	84.34		4.24	84.34	-95.96	95.97	
	0.000	3	min	1	-14.62	16.01		6.77	16.91	-15.60	18.10	
			max	1	-90.86	89.43		35.48	89.70	-91.05	91.15	
	0.400	3	min	1	-18.68	21.28		6.85	21.60	-19.48	22.47	
			max	1	-125.00	123.60		35.41	123.75	-125.19	125.29	
	0.000	3	min	1	-18.56	21.16		0.82	21.16	-18.57	21.16	
			max	1	-124.77	123.29		9.41	123.40	-124.84	124.88	
30004	1.000	3	min	1	-9.09	10.48		0.57	10.59	-9.23	10.65	
			max	1	-65.75	64.28		9.60	64.49	-65.89	65.96	
	0.000	3	min	1	-8.95	10.62		0.47	10.63	-8.95	10.63	
			max	1	-66.29	63.74		3.24	63.74	-66.32	66.33	
	0.700	3	min	1	-2.89	4.57		0.49	4.59	-2.92	4.60	
			max	1	-66.29	63.74		3.24	63.74	-66.32	66.33	
	0.000	3	min	1	-18.56	21.16		0.82	21.16	-18.57	21.16	
			max	1	-124.77	123.29		9.41	123.40	-124.84	124.88	
30005	1.000	3	min	1	-9.09	10.48		0.57	10.59	-9.23	10.65	
			max	1	-65.75	64.28		9.60	64.49	-65.89	65.96	
	0.000	3	min	1	-8.95	10.62		0.47	10.63	-8.95	10.63	
			max	1	-66.29	63.74		3.24	63.74	-66.32	66.33	
	0.700	3	min	1	-2.89	4.57		0.49	4.59	-2.92	4.60	
			max	1	-66.29	63.74		3.24	63.74	-66.32	66.33	
	0.000	3	min	1	-18.56	21.16		0.82	21.16	-18.57	21.16	
			max	1	-124.77	123.29		9.41	123.40	-124.84	124.88	
30006	1.000	3	min	1	-9.09	10.48		0.57	10.59	-9.23	10.65	
			max	1	-65.75	64.28		9.60	64.49	-65.89	65.96	
	0.000	3	min	1	-8.95	10.62		0.47	10.63	-8.95	10.63	
			max	1	-66.29	63.74		3.24	63.74	-66.32	66.33	
	0.700	3	min	1	-2.89	4.57		0.49	4.59	-2.92	4.60	
			max	1	-66.29	63.74		3.24	63.74	-66.32	66.33	
	0.000	3	min	1	-18.56	21.16		0.82	21.16	-18.57	21.16	
			max	1	-124.77	123.29		9.41	123.40	-124.84	124.88	

Steel - Resistance of Cross Sections

Beam	x[m]	SNo	LC	Mat	$\sigma-x$	$\sigma+x$	$\Delta\sigma$	τ	$\sigma-I$	$\sigma-II$	$\sigma-v$	N[kN]
30006	0.700	3	max	1	-43.53	40.97		3.11	40.98	-43.57	43.60	
	1.400	3	min	1	-3.24	4.92		0.66	4.96	-3.28	4.98	
			max	1	-43.87	41.31		3.03	41.32	-43.90	43.92	
30007	0.000	3	min	1	-3.60	4.56		0.67	4.59	-3.66	4.60	
			max	1	-42.52	42.66		3.01	42.71	-42.53	42.73	
	0.700	3	min	1	-3.47	4.43		0.51	4.45	-3.52	4.46	
			max	1	-45.00	45.15		3.14	45.19	-45.01	45.21	
	1.400	3	min	1	-9.83	10.79		0.46	10.80	-9.83	10.80	
			max	1	-70.44	70.59		3.26	70.61	-70.44	70.62	
30008	0.000	3	min	1	-10.20	10.42		0.65	10.58	-10.38	10.66	
			max	1	-68.76	72.27		10.75	72.43	-69.02	72.52	
	0.900	3	min	1	-24.52	26.69		0.84	26.70	-24.52	26.70	
30009	0.000	3	min	1	-24.65	26.82		5.42	27.19	-24.96	27.38	
			max	1	-128.13	131.55		29.92	131.62	-128.17	131.66	
	0.500	3	min	1	-13.80	14.03		5.31	14.38	-14.24	15.12	
			max	1	-92.84	96.30		30.01	96.40	-93.00	96.45	
	0.000	3	min	1	-12.11	15.72		0.66	15.73	-12.11	15.73	
			max	1	-98.24	90.91		4.34	90.92	-98.24	98.24	
30010	0.700	3	min	1	-4.79	8.41		0.81	8.42	-4.81	8.43	
			max	1	-61.06	53.73		4.21	53.75	-61.06	61.06	
	1.400	3	min	1	-1.49	5.11		0.96	5.15	-1.64	5.17	
			max	1	-41.00	33.73		4.07	33.80	-41.02	41.04	
	0.000	3	min	1	-1.97	4.64		0.48	4.64	-1.99	4.64	
			max	1	-38.37	36.29		2.57	36.29	-38.38	38.38	
30011	0.700	3	min	1	2.58	1.85		0.33	1.85	-0.11	1.85	
			max	1	-21.46	21.20		2.70	21.21	-21.56	21.61	
	1.400	3	min	1	-1.14	3.81		0.18	3.81	-1.14	3.81	
			max	1	-21.58	19.49		2.82	19.50	-21.64	21.68	
	0.000	3	min	1	-1.59	1.82		0.37	1.82	-1.67	3.16	
			max	1	-13.10	27.97		4.09	28.00	-13.10	28.01	
30012	0.700	3	min	1	-3.04	1.03		0.51	1.09	-3.05	3.05	
			max	1	-13.71	22.31		3.96	22.31	-13.72	22.31	
	1.400	3	min	1	-8.70	7.38		0.66	7.38	-8.71	8.72	
			max	1	-41.44	56.31		3.83	56.31	-41.46	56.31	
	0.000	3	min	1	-4.37	0.87		4.54	7.83	-8.14	9.66	
			max	1	-32.03	44.26		72.02	89.09	-78.35	128.51	
30013	0.150	3	min	1	-0.51	1.72		4.58	5.98	-6.77	8.74	
			max	1	-22.62	34.85		72.05	81.57	-65.33	126.07	
	0.000	3	min	1	-1.35	0.74		0.53	2.17	-2.85	2.88	
30014	0.000	3	min	1	-20.32	32.58		18.20	33.55	-21.50	35.11	
			max	1	-9.47	16.13		18.45	26.69	-17.47	34.55	
	1.404	3	min	1	2.44	-2.88		0.58	0.64	-1.02	1.08	
30015	0.000	3	min	1	-0.75	0.42		2.00	1.69	-2.35	3.52	
			max	1	-19.54	29.84		10.43	30.35	-20.24	30.82	
	1.404	3	min	1	-2.54	3.68		0.78	4.23	-2.56	5.50	
30016	0.000	3	min	1	-27.98	29.12		10.18	29.95	-28.59	30.44	
			max	1	6.65	1.20		0.54	1.78	-1.86	4.88	
	1.404	3	min	1	-18.84	14.61		5.92	14.66	-19.62	20.33	
30017	0.000	3	min	1	5.37	4.87		1.71	5.03	-1.70	7.67	
			max	1	-28.76	21.10		6.12	21.29	-28.92	29.00	
	1.404	3	min	1	-5.63	5.02		0.73	5.02	-5.83	5.94	
30018	0.000	3	min	1	-40.57	31.49		6.89	32.05	-40.81	40.95	
			max	1	-3.38	2.94		0.60	2.96	-3.38	3.38	
	1.404	3	min	1	-35.34	33.84		6.98	34.34	-35.64	35.82	
30019	0.000	3	min	1	6.51	1.47		0.91	1.54	-0.29	7.23	
			max	1	-27.50	19.94		3.51	19.98	-27.53	27.55	
	1.404	3	min	1	0.25	-0.17		0.91	0.26	-1.01	5.21	
			max	1	-23.99	27.11		3.23	27.15	-24.07	27.17	

Steel - Resistance of Cross Sections

Beam	x[m]	SNo	LC	Mat	$\sigma-x$	$\sigma+x$	$\Delta\sigma$	τ	$\sigma-I$	$\sigma-II$	$\sigma-v$	N[kN]
30019	0.000	3	min	1	-2.86	-0.83		0.67	0.58	-2.89	2.93	
			max	1	-35.65	46.07		3.07	46.09	-35.66	46.10	
	1.404	3	min	1	-5.55	3.96		0.67	3.96	-5.55	5.55	
			max	1	-39.58	39.02		2.97	39.04	-39.60	39.62	
30020	0.000	3	min	1	2.87	3.20		1.29	3.22	-0.43	4.86	
			max	1	-24.40	15.01		4.48	15.25	-24.65	24.81	
	1.404	3	min	1	3.54	5.29		1.37	5.30	-0.67	6.80	
			max	1	-31.08	20.37		4.68	20.51	-31.25	31.34	
30021	0.000	3	min	1	-7.32	8.02		2.34	8.16	-8.24	11.41	
			max	1	-41.67	30.70		8.73	30.94	-41.82	41.90	
	1.404	3	min	1	-7.17	5.12		2.18	5.19	-7.40	8.77	
			max	1	-33.16	30.83		8.44	31.25	-33.82	34.22	
30022	0.000	3	min	1	2.25	1.71		1.15	2.99	-4.50	6.59	
			max	1	-20.71	14.02		10.99	19.66	-22.09	23.38	
	1.404	3	min	1	1.83	-4.37		0.64	1.37	-1.90	2.58	
			max	1	-9.25	14.29		10.74	19.59	-13.45	23.10	
30023	0.000	3	min	1	-2.56	-0.90		0.50	0.10	-2.59	2.61	
			max	1	-14.22	16.86		22.81	31.68	-24.58	42.04	
	1.404	3	min	1	2.95	-0.49		0.62	3.05	-5.02	6.09	
			max	1	-12.48	15.02		22.78	26.44	-21.35	39.73	
30024	0.000	3	min	1	-4.30	3.74		2.21	7.78	-10.24	10.32	
			max	1	-69.28	82.73		33.15	86.36	-70.45	92.83	
	0.500	3	min	1	-11.67	8.74		2.53	8.75	-11.68	11.69	
			max	1	-108.72	122.10		33.15	122.61	-108.72	122.86	
30025	0.000	3	min	1	42.20	-41.40		0.03	0.00	-0.00	3.28	
			max	1	-48.07	49.34		0.49	49.34	-48.07	49.34	
	0.700	3	min	1	38.39	-36.96		0.07	0.00	0.00	3.43	
			max	1	-51.45	53.15		0.44	53.15	-51.45	53.15	
	1.400	3	min	1	36.12	-32.07		0.08	0.00	0.00	2.97	
			max	1	-56.59	55.42		0.58	55.42	-56.59	56.59	
30026	0.000	3	min	1	50.68	-48.25		0.11	0.00	-0.00	2.06	
			max	1	-72.80	69.97		0.34	69.97	-72.80	72.80	
	0.700	3	min	1	49.52	-48.47		0.02	0.00	0.00	1.96	
			max	1	-73.88	71.13		0.21	71.13	-73.88	73.88	
	1.400	3	min	1	49.97	-47.30		0.08	0.00	0.00	1.58	
			max	1	-74.66	70.69		0.24	70.69	-74.66	74.66	
30027	0.000	3	min	1	64.22	-62.51		0.12	0.00	0.00	0.43	
			max	1	-89.90	84.94		0.27	84.94	-89.90	89.90	
	0.700	3	min	1	62.92	-62.94		0.03	0.00	0.00	0.81	
			max	1	-90.24	86.23		0.11	86.23	-90.24	90.24	
	1.400	3	min	1	63.26	-61.95		0.12	0.00	0.00	0.49	
			max	1	-89.65	85.90		0.24	85.90	-89.65	89.65	
30028	0.000	3	min	1	59.20	-56.63		0.07	0.00	0.00	1.10	
			max	1	-84.27	81.85		0.33	81.85	-84.27	84.27	
	0.700	3	min	1	59.68	-59.09		0.04	0.00	0.00	1.75	
			max	1	-81.56	81.36		0.22	81.36	-81.56	81.56	
	1.400	3	min	1	61.79	-61.58		0.06	0.00	-0.00	1.29	
			max	1	-80.39	79.25		0.37	79.25	-80.39	80.39	
30029	0.000	3	min	1	-13.89	12.25		0.81	12.26	-13.90	13.91	
			max	1	-70.71	58.39		3.49	58.43	-70.75	70.76	
	0.775	3	min	1	-3.60	3.56		0.64	3.58	-3.66	5.22	
			max	1	-30.43	25.45		3.30	25.49	-30.50	30.54	
	1.550	3	min	1	-1.69	1.79		0.48	1.82	-1.75	3.46	
			max	1	-22.35	20.75		3.10	20.81	-22.44	22.50	
30030	0.000	3	min	1	5.11	-8.29		0.05	0.02	0.00	7.10	
			max	1	-26.55	28.58		0.78	28.58	-26.55	28.58	
	0.700	3	min	1	8.59	-14.76		0.09	0.01	-0.00	5.50	
			max	1	-22.51	25.10		0.93	25.11	-22.51	25.11	
	1.400	3	min	1	12.57	-9.58		0.07	0.00	-0.02	4.40	
			max	1								

Steel - Resistance of Cross Sections

Beam	x[m]	SNo	LC	Mat	$\sigma-x$	$\sigma+x$	$\Delta\sigma$	τ	$\sigma-I$	$\sigma-II$	$\sigma-v$	N[kN]
30030	1.400	3	max	1	-23.16	21.12		1.08	21.12	-23.17	23.17	
30031	0.000	3	min	1	28.98	-25.20		0.13	0.01	0.00	8.44	
			max	1	-37.72	37.54		0.64	37.54	-37.72	37.72	
	0.700	3	min	1	28.56	-27.92		0.05	0.00	0.00	5.29	
			max	1	-35.68	37.95		0.51	37.95	-35.68	37.95	
	1.400	3	min	1	29.69	-28.50		0.06	0.00	0.00	5.11	
			max	1	-35.15	36.83		0.38	36.83	-35.15	36.83	
30032	0.000	3	min	1	-14.13	15.54		0.84	15.55	-14.14	18.21	
			max	1	-79.54	64.96		3.86	65.01	-79.58	79.60	
	0.775	3	min	1	-3.36	4.39		0.85	4.43	-3.42	7.09	
			max	1	-33.90	24.60		3.67	24.64	-33.99	34.04	
	1.550	3	min	1	-0.84	1.32		0.68	1.67	-1.25	4.82	
			max	1	-24.62	19.23		3.47	19.29	-24.75	24.81	
30033	0.000	3	min	1	3.92	-11.78		0.02	0.01	0.00	8.45	
			max	1	-23.87	33.29		0.79	33.30	-23.87	33.30	
	0.700	3	min	1	9.58	-16.66		0.05	0.00	-0.01	2.02	
			max	1	-18.88	27.64		0.94	27.64	-18.88	27.64	
	1.400	3	min	1	16.81	-12.21		0.07	0.00	-0.02	5.14	
			max	1	-23.39	20.41		1.09	20.42	-23.39	23.40	
30034	0.000	3	min	1	38.22	-28.85		0.05	0.00	-0.00	10.90	
			max	1	-34.33	41.82		0.60	41.82	-34.33	41.82	
	0.700	3	min	1	34.38	-26.23		0.04	0.00	0.00	12.53	
			max	1	-36.28	45.66		0.42	45.66	-36.28	45.66	
	1.400	3	min	1	32.17	-24.57		0.04	0.00	0.00	12.53	
			max	1	-40.36	47.87		0.48	47.87	-40.37	47.87	
30035	0.000	3	min	1	50.88	-39.69		0.13	0.00	0.00	14.15	
			max	1	-57.70	66.58		0.54	66.58	-57.70	66.58	
	0.700	3	min	1	49.91	-40.72		0.01	0.00	0.00	15.57	
			max	1	-56.42	67.55		0.41	67.55	-56.42	67.55	
	1.400	3	min	1	50.57	-40.72		0.07	0.00	0.00	9.88	
			max	1	-56.56	66.89		0.28	66.89	-56.56	66.89	
30036	0.000	3	min	1	64.93	-52.20		0.07	0.00	-0.00	18.77	
			max	1	-68.06	81.24		0.39	81.24	-68.06	81.24	
	0.700	3	min	1	62.53	-51.03		0.02	0.00	0.00	19.73	
			max	1	-69.25	83.64		0.22	83.64	-69.25	83.64	
	1.400	3	min	1	61.76	-48.57		0.03	0.00	0.00	19.17	
			max	1	-71.58	84.41		0.34	84.41	-71.58	84.41	
30037	0.000	3	min	1	77.22	-60.72		0.13	0.00	0.00	23.20	
			max	1	-83.73	99.87		0.25	99.87	-83.73	99.87	
	0.700	3	min	1	76.69	-62.10		0.01	0.00	0.00	23.03	
			max	1	-82.69	100.39		0.10	100.39	-82.69	100.39	
	1.400	3	min	1	77.80	-62.16		0.10	0.00	0.00	23.35	
			max	1	-82.38	99.29		0.23	99.29	-82.38	99.29	
30038	0.000	3	min	1	75.46	-59.92		0.03	0.00	0.00	22.54	
			max	1	-80.14	96.95		0.45	96.95	-80.14	96.95	
	0.700	3	min	1	72.90	-57.98		0.03	0.00	0.00	23.28	
			max	1	-82.07	99.51		0.58	99.51	-82.07	99.51	
	1.400	3	min	1	71.96	-55.37		0.02	0.00	0.00	23.05	
			max	1	-85.27	100.44		0.71	100.44	-85.27	100.44	
30039	0.000	3	min	1	57.37	-40.43		0.04	0.00	0.00	22.65	
			max	1	-70.34	85.86		0.53	85.86	-70.34	85.86	
	0.700	3	min	1	58.59	-44.35		0.06	0.00	0.00	22.27	
			max	1	-65.75	84.64		0.39	84.64	-65.75	84.64	
	1.400	3	min	1	61.15	-47.33		0.09	0.00	-0.00	21.63	
			max	1	-62.78	82.08		0.53	82.08	-62.78	82.08	
30040	0.000	3	min	1	29.90	-19.51		0.09	0.00	0.00	13.23	
			max	1	-33.47	50.83		1.14	50.83	-33.47	50.83	
	0.700	3	min	1	21.75	-15.65		0.07	0.01	0.00	15.97	
			max	1	-42.99	58.97		1.27	58.97	-43.00	58.98	

Steel - Resistance of Cross Sections

Beam	x[m]	SNo	LC	Mat	$\sigma-x$	$\sigma+x$	$\Delta\sigma$	τ	$\sigma-I$	$\sigma-II$	$\sigma-v$	N[kN]
30040	1.400	3	min	1	15.23	-10.56		0.03	0.02	0.00	17.09	
			max	1	-53.59	65.49		1.40	65.50	-53.59	65.50	
30041	0.000	3	min	1	-3.67	3.93		1.14	4.05	-3.75	7.34	
			max	1	-34.04	45.41		6.78	45.62	-34.25	45.73	
	0.700	3	min	1	-4.62	7.47		1.32	7.54	-4.70	9.83	
			max	1	-46.37	62.45		6.65	62.59	-46.53	62.67	
	1.400	3	min	1	-19.77	24.92		1.37	24.93	-19.80	24.98	
			max	1	-109.67	131.86		6.53	131.92	-109.74	131.95	
30042	0.000	3	min	1	-6.15	-3.60		2.53	4.04	-9.42	11.49	
			max	1	-48.51	56.85		14.61	57.69	-49.40	58.17	
	0.150	3	min	1	5.65	-12.63		2.50	1.63	-6.12	8.02	
			max	1	-21.94	38.11		14.64	38.35	-27.15	38.49	
30043	0.000	3	min	1	4.79	-12.71		0.49	0.07	-0.12	6.76	
			max	1	-22.48	38.28		2.33	38.31	-22.50	38.32	
	1.404	3	min	1	9.44	-12.94		0.26	0.01	-0.12	5.69	
			max	1	-22.27	27.28		2.59	27.28	-22.27	27.28	
30044	0.000	3	min	1	56.89	-38.84		0.02	0.00	0.00	22.26	
			max	1	-63.39	83.79		0.40	83.79	-63.39	83.79	
	0.700	3	min	1	57.59	-41.43		0.04	0.00	0.00	22.71	
			max	1	-60.35	83.09		0.29	83.09	-60.35	83.09	
	1.400	3	min	1	59.92	-43.04		0.04	0.00	-0.00	21.53	
			max	1	-58.74	80.76		0.46	80.76	-58.74	80.76	
	0.000	3	min	1	29.25	-19.57		0.07	0.00	-0.00	13.19	
			max	1	-33.44	50.09		0.99	50.10	-33.44	50.10	
30045	0.700	3	min	1	21.19	-15.48		0.05	0.00	0.00	7.28	
			max	1	-41.66	58.16		1.12	58.16	-41.66	58.16	
	1.400	3	min	1	14.74	-10.28		0.02	0.01	0.00	5.49	
			max	1	-50.91	64.60		1.25	64.60	-50.91	64.60	
30046	0.000	3	min	1	-4.44	-1.84		0.34	0.06	-4.78	5.04	
			max	1	-33.94	39.05		5.92	39.24	-34.19	39.33	
	0.700	3	min	1	-10.21	5.86		1.54	5.99	-10.33	11.66	
			max	1	-45.80	52.45		5.79	52.58	-45.99	52.64	
	1.400	3	min	1	-29.77	24.93		1.69	24.96	-29.79	29.81	
			max	1	-109.14	113.25		5.89	113.31	-109.22	113.34	
30047	0.000	3	min	1	-7.36	-2.56		2.16	1.14	-7.74	8.07	
			max	1	-50.78	54.28		11.83	54.81	-51.50	55.09	
	0.150	3	min	1	6.16	-14.70		2.19	1.30	-4.15	8.31	
			max	1	-24.26	39.94		11.86	40.11	-28.45	40.20	
30048	0.000	3	min	1	6.03	-14.98		0.23	0.01	-0.03	7.32	
			max	1	-24.63	40.07		1.66	40.08	-24.63	40.09	
	1.404	3	min	1	9.23	-15.26		0.06	0.00	-0.06	6.23	
			max	1	-24.36	26.29		1.92	26.32	-24.37	26.33	
30049	0.000	3	min	1	25.82	-36.13		0.19	0.00	-0.01	10.36	
			max	1	-45.36	41.28		1.08	41.28	-45.36	45.36	
	1.404	3	min	1	23.31	-34.89		0.12	0.00	-0.00	4.66	
			max	1	-46.62	44.14		1.07	44.14	-46.62	46.62	
30050	0.000	3	min	1	36.71	-54.44		0.11	0.00	0.00	17.30	
			max	1	-66.38	63.48		2.14	63.48	-66.38	66.38	
	1.404	3	min	1	29.94	-51.71		0.19	0.00	-0.01	13.88	
			max	1	-69.12	72.64		2.39	72.64	-69.12	72.64	
30051	0.000	3	min	1	39.34	-66.00		0.21	0.00	-0.00	22.23	
			max	1	-83.76	83.59		2.04	83.60	-83.76	83.76	
	1.404	3	min	1	45.19	-63.69		0.21	0.00	-0.00	22.77	
			max	1	-86.09	77.04		2.29	77.05	-86.09	86.09	
30052	0.000	3	min	1	56.80	-73.35		0.21	0.00	-0.00	15.75	
			max	1	-95.73	83.40		0.96	83.41	-95.73	95.73	
	1.404	3	min	1	59.73	-70.69		0.21	0.00	-0.00	16.57	
			max	1	-98.40	80.51		1.21	80.51	-98.40	98.40	
30053	0.000	3	min	1	59.68	-70.63		0.23	0.00	-0.00	25.53	

Steel - Resistance of Cross Sections

Beam	x[m]	SNo	LC	Mat	$\sigma-x$	$\sigma+x$	$\Delta\sigma$	τ	$\sigma-I$	$\sigma-II$	$\sigma-v$	N[kN]
30053	0.000	3	max	1	-98.46	80.45		1.04	80.45	-98.46	98.46	
	1.404	3	min	1	55.08	-71.07		0.26	0.00	-0.00	26.10	
			max	1	-98.03	85.15		0.91	85.15	-98.03	98.03	
30054	0.000	3	min	1	54.05	-74.68		0.21	0.00	-0.00	25.91	
			max	1	-101.75	89.62		2.03	89.62	-101.75	101.75	
	1.404	3	min	1	45.54	-72.87		0.22	0.00	-0.00	26.29	
30055			max	1	-103.58	98.52		2.00	98.52	-103.59	103.59	
	0.000	3	min	1	42.67	-70.29		0.29	0.00	-0.00	26.72	
			max	1	-100.38	95.43		2.21	95.44	-100.39	100.39	
30056	1.404	3	min	1	47.15	-68.24		0.20	0.00	0.00	27.40	
			max	1	-102.45	90.55		2.00	90.56	-102.45	102.45	
	0.000	3	min	1	34.40	-50.77		0.05	0.00	-0.02	22.69	
30057			max	1	-84.87	72.42		2.00	72.42	-84.87	84.87	
	1.404	3	min	1	48.61	-62.34		0.05	0.00	0.00	16.54	
			max	1	-73.32	58.19		1.74	58.19	-73.32	73.32	
30058	0.000	3	min	1	22.99	-31.64		0.10	0.00	-0.02	9.63	
			max	1	-42.52	33.19		1.73	33.19	-42.52	42.52	
	1.404	3	min	1	18.77	-21.91		0.09	0.02	0.00	8.71	
30059			max	1	-52.27	37.34		1.47	37.35	-52.28	52.28	
	0.000	3	min	1	8.14	-9.09		4.11	3.04	-6.78	13.07	
			max	1	-42.10	33.50		20.52	40.09	-45.63	48.42	
30060	0.500	3	min	1	-42.07	20.92		4.11	20.93	-42.15	42.19	
			max	1	-158.36	169.96		20.52	170.40	-158.65	170.63	
	0.000	3	min	1	0.74	5.14		0.12	5.14	-0.02	5.14	
30061			max	1	-79.77	65.10		3.88	65.15	-79.81	79.83	
	0.775	3	min	1	1.02	3.84		0.12	3.87	-0.00	4.86	
			max	1	-34.00	21.71		3.68	21.75	-34.09	34.14	
30062	1.550	3	min	1	1.43	1.23		0.28	1.56	-0.04	4.27	
			max	1	-24.73	16.89		3.49	16.96	-24.86	24.92	
	0.000	3	min	1	3.59	-12.06		0.01	0.01	0.00	3.53	
30063			max	1	-23.72	33.57		0.78	33.57	-23.72	33.57	
	0.700	3	min	1	9.54	-16.71		0.07	0.00	-0.01	2.78	
			max	1	-19.08	27.62		0.93	27.63	-19.09	27.63	
30064	1.400	3	min	1	17.11	-12.39		0.04	0.00	-0.02	3.65	
			max	1	-23.13	20.05		1.08	20.06	-23.13	23.13	
	0.000	3	min	1	38.87	-27.55		0.05	0.00	-0.00	8.03	
30065			max	1	-34.40	41.81		0.62	41.81	-34.40	41.81	
	0.700	3	min	1	34.61	-26.05		0.05	0.00	0.00	7.63	
			max	1	-34.47	46.06		0.45	46.07	-34.47	46.07	
30066	1.400	3	min	1	31.97	-24.41		0.07	0.00	0.00	8.99	
			max	1	-37.70	48.70		0.37	48.70	-37.70	48.70	
	0.000	3	min	1	51.21	-38.22		0.12	0.00	0.00	6.21	
30067			max	1	-53.03	67.93		0.43	67.93	-53.03	67.93	
	0.700	3	min	1	50.64	-38.88		0.01	0.00	0.00	4.66	
			max	1	-52.31	68.49		0.30	68.49	-52.31	68.49	
30068	1.400	3	min	1	51.70	-38.38		0.07	0.00	0.00	4.74	
			max	1	-53.00	67.43		0.25	67.43	-53.00	67.43	
	0.000	3	min	1	65.85	-49.65		0.02	0.00	-0.00	15.96	
30069			max	1	-64.29	81.58		0.40	81.58	-64.29	81.58	
	0.700	3	min	1	63.32	-48.53		0.04	0.00	0.00	15.74	
			max	1	-65.29	84.12		0.23	84.12	-65.29	84.12	
30070	1.400	3	min	1	62.40	-46.28		0.02	0.00	0.00	17.11	
			max	1	-67.58	85.03		0.30	85.03	-67.58	85.03	
	0.000	3	min	1	77.80	-58.02		0.11	0.00	0.00	19.71	
30071			max	1	-79.33	100.43		0.21	100.43	-79.33	100.43	
	0.700	3	min	1	77.38	-59.11		0.01	0.00	0.00	18.65	
			max	1	-78.41	100.84		0.07	100.84	-78.41	100.84	
30072	1.400	3	min	1	78.59	-59.03		0.09	0.00	0.00	19.20	
			max	1	-78.37	99.64		0.24	99.64	-78.37	99.64	

Steel - Resistance of Cross Sections

Beam	x[m]	SNo	LC	Mat	$\sigma-x$	$\sigma+x$	$\Delta\sigma$	τ	$\sigma-I$	$\sigma-II$	$\sigma-v$	N[kN]
30065	0.000	3	min	1	76.47	-56.63		0.04	0.00	0.00	18.10	
			max	1	-75.99	97.52		0.36	97.52	-75.99	97.52	
	0.700	3	min	1	73.56	-55.33		0.02	0.00	0.00	17.89	
			max	1	-77.26	100.43		0.44	100.43	-77.26	100.43	
	1.400	3	min	1	72.27	-53.27		0.02	0.00	0.00	19.28	
			max	1	-79.73	101.72		0.57	101.72	-79.73	101.72	
30066	0.000	3	min	1	57.25	-40.35		0.02	0.00	0.00	15.30	
			max	1	-66.81	86.69		0.40	86.69	-66.82	86.69	
	0.700	3	min	1	58.69	-43.30		0.06	0.00	0.00	13.02	
			max	1	-63.36	85.25		0.37	85.25	-63.36	85.25	
	1.400	3	min	1	61.65	-45.41		0.04	0.00	-0.00	12.37	
			max	1	-61.32	82.29		0.55	82.29	-61.32	82.29	
30067	0.000	3	min	1	30.05	-19.77		0.09	0.00	-0.00	4.57	
			max	1	-34.81	50.69		0.97	50.69	-34.81	50.70	
	0.700	3	min	1	21.88	-15.84		0.07	0.01	0.00	7.95	
			max	1	-42.66	58.86		1.10	58.86	-42.66	58.86	
	1.400	3	min	1	15.34	-10.75		0.03	0.02	0.00	12.98	
			max	1	-51.66	65.40		1.23	65.40	-51.66	65.40	
30068	0.000	3	min	1	-1.78	3.87		0.70	4.00	-2.66	5.82	
			max	1	-34.03	38.47		5.90	38.66	-34.26	38.78	
	0.700	3	min	1	-3.84	7.01		0.88	7.03	-3.87	7.04	
			max	1	-46.48	52.27		5.77	52.40	-46.65	52.47	
	1.400	3	min	1	-14.23	17.40		1.05	17.42	-14.25	17.42	
			max	1	-110.06	113.10		5.91	113.16	-110.13	113.19	
30069	0.000	3	min	1	-6.00	-4.27		2.59	3.54	-9.70	11.06	
			max	1	-48.13	52.04		13.38	52.31	-49.20	52.44	
	0.150	3	min	1	5.70	-13.65		2.28	1.51	-4.46	7.12	
			max	1	-22.26	38.02		13.35	38.32	-27.88	38.49	
30070	0.000	3	min	1	5.93	-13.71		0.30	0.03	-0.14	6.79	
			max	1	-22.78	38.22		2.47	38.26	-22.81	38.27	
	1.404	3	min	1	8.75	-13.99		0.26	0.01	-0.20	5.72	
			max	1	-22.51	24.77		2.73	24.78	-22.52	24.78	
30071	0.000	3	min	1	26.27	-35.82		0.26	0.01	-0.06	9.76	
			max	1	-44.18	40.94		1.54	40.94	-44.18	44.18	
	1.404	3	min	1	23.31	-34.61		0.11	0.00	-0.04	6.40	
			max	1	-45.41	44.09		1.54	44.09	-45.41	45.41	
30072	0.000	3	min	1	38.05	-56.03		0.13	0.00	-0.01	17.82	
			max	1	-67.94	65.28		2.09	65.29	-67.95	67.95	
	1.404	3	min	1	27.98	-51.16		0.20	0.00	-0.02	16.69	
			max	1	-72.83	75.64		2.34	75.64	-72.83	75.64	
30073	0.000	3	min	1	39.84	-65.41		0.03	0.00	-0.01	18.51	
			max	1	-86.82	86.25		2.04	86.26	-86.82	86.82	
	1.404	3	min	1	47.47	-65.45		0.26	0.00	-0.01	22.69	
			max	1	-86.80	77.86		2.24	77.87	-86.80	86.80	
30074	0.000	3	min	1	58.03	-75.57		0.25	0.00	-0.00	22.08	
			max	1	-96.89	83.33		0.85	83.33	-96.89	96.89	
	1.404	3	min	1	59.91	-72.37		0.19	0.00	-0.01	22.77	
			max	1	-100.11	81.32		1.10	81.32	-100.11	100.11	
30075	0.000	3	min	1	-13.29	15.18		0.70	15.20	-13.30	17.72	
			max	1	-78.31	64.00		3.80	64.05	-78.35	78.38	
	0.775	3	min	1	-3.98	4.27		0.83	4.31	-4.01	6.83	
			max	1	-33.24	20.20		3.61	20.24	-33.34	33.40	
	1.550	3	min	1	-2.04	1.17		0.66	1.56	-2.14	4.70	
			max	1	-24.35	15.93		3.41	15.99	-24.48	24.54	
30076	0.000	3	min	1	4.31	-12.21		0.01	0.01	0.00	8.45	
			max	1	-24.30	33.39		0.76	33.39	-24.30	33.39	
	0.700	3	min	1	9.89	-17.26		0.15	0.01	-0.01	7.61	
			max	1	-19.40	27.81		0.91	27.81	-19.40	27.81	
	1.400	3	min	1	17.09	-12.60		0.02	0.00	-0.02	4.66	
			max	1								

Steel - Resistance of Cross Sections

Beam	x[m]	SNo	LC	Mat	$\sigma-x$	$\sigma+x$	$\Delta\sigma$	τ	$\sigma-I$	$\sigma-II$	$\sigma-v$	N[kN]
30076	1.400	3	max	1	-23.82	20.60		1.06	20.61	-23.83	23.83	
30077	0.000	3	min	1	38.23	-26.95		0.06	0.00	-0.00	8.52	
			max	1	-34.92	41.73		0.56	41.74	-34.92	41.74	
	0.700	3	min	1	34.55	-25.72		0.07	0.00	0.00	12.45	
			max	1	-34.36	45.41		0.39	45.41	-34.36	45.41	
	1.400	3	min	1	32.49	-24.87		0.06	0.00	0.00	12.42	
			max	1	-37.07	47.47		0.33	47.47	-37.07	47.47	
30078	0.000	3	min	1	50.69	-37.43		0.11	0.00	0.00	12.42	
			max	1	-51.43	65.67		0.39	65.67	-51.43	65.67	
	0.700	3	min	1	49.92	-37.79		0.01	0.00	0.00	11.85	
			max	1	-50.95	66.44		0.26	66.44	-50.95	66.44	
	1.400	3	min	1	50.77	-36.91		0.05	0.00	0.00	12.89	
			max	1	-51.90	65.58		0.24	65.58	-51.90	65.58	
30079	0.000	3	min	1	65.22	-48.52		0.01	0.00	-0.00	15.91	
			max	1	-63.53	80.03		0.39	80.03	-63.53	80.03	
	0.700	3	min	1	62.37	-47.36		0.03	0.00	0.00	15.71	
			max	1	-64.78	82.89		0.21	82.89	-64.78	82.89	
	1.400	3	min	1	61.15	-44.82		0.03	0.00	0.00	17.12	
			max	1	-67.19	84.11		0.31	84.11	-67.19	84.11	
30080	0.000	3	min	1	76.21	-56.32		0.11	0.00	0.00	19.68	
			max	1	-78.69	99.17		0.21	99.17	-78.69	99.17	
	0.700	3	min	1	75.90	-57.63		0.02	0.00	0.00	18.59	
			max	1	-77.67	99.48		0.07	99.48	-77.67	99.48	
	1.400	3	min	1	77.22	-57.56		0.08	0.00	0.00	19.10	
			max	1	-77.48	98.16		0.23	98.16	-77.48	98.16	
30081	0.000	3	min	1	74.31	-54.41		0.02	0.00	0.00	17.74	
			max	1	-74.34	95.26		0.32	95.26	-74.34	95.26	
	0.700	3	min	1	71.89	-53.80		0.03	0.00	0.00	17.31	
			max	1	-74.93	97.68		0.39	97.68	-74.93	97.68	
	1.400	3	min	1	71.10	-52.30		0.02	0.00	0.00	18.49	
			max	1	-76.93	98.47		0.52	98.47	-76.93	98.47	
30082	0.000	3	min	1	57.06	-40.30		0.03	0.00	0.00	14.78	
			max	1	-64.92	84.44		0.35	84.44	-64.92	84.44	
	0.700	3	min	1	57.90	-42.71		0.05	0.00	0.00	12.70	
			max	1	-61.99	83.60		0.30	83.60	-61.99	83.60	
	1.400	3	min	1	60.34	-44.21		0.07	0.00	-0.00	12.24	
			max	1	-60.48	81.16		0.47	81.16	-60.48	81.16	
30083	0.000	3	min	1	29.54	-19.71		0.08	0.00	-0.00	4.59	
			max	1	-34.63	50.36		0.96	50.36	-34.63	50.36	
	0.700	3	min	1	21.35	-15.62		0.07	0.01	0.00	8.03	
			max	1	-42.68	58.54		1.09	58.54	-42.68	58.54	
	1.400	3	min	1	14.80	-10.40		0.01	0.02	0.00	13.11	
			max	1	-51.81	65.10		1.22	65.10	-51.81	65.10	
30084	0.000	3	min	1	-1.89	3.88		0.69	4.01	-2.55	5.77	
			max	1	-34.21	39.05		5.94	39.25	-34.45	39.36	
	0.700	3	min	1	-3.60	6.83		0.87	6.85	-3.63	6.86	
			max	1	-46.18	52.57		5.81	52.70	-46.37	52.77	
	1.400	3	min	1	-13.85	17.07		1.04	17.09	-13.86	17.09	
			max	1	-109.88	113.85		5.93	113.91	-109.96	113.94	
30085	0.000	3	min	1	-6.92	-1.90		2.29	1.37	-7.13	7.38	
			max	1	-49.96	53.65		12.38	54.28	-50.50	54.66	
	0.150	3	min	1	5.82	-13.78		2.32	1.37	-4.19	8.18	
30086	0.000	3	max	1	-23.20	38.79		12.35	39.01	-28.14	39.11	
			min	1	5.67	-14.10		0.33	0.03	-0.06	6.96	
	1.404	3	max	1	-23.55	38.90		1.86	38.91	-23.56	38.93	
			min	1	8.78	-14.95		0.12	0.00	-0.08	5.79	
30087	0.000	3	max	1	-22.72	25.50		2.12	25.50	-22.73	25.50	
			min	1	26.02	-35.96		0.18	0.00	-0.01	10.07	
			max	1	-44.11	41.67		0.95	41.67	-44.11	44.12	

Steel - Resistance of Cross Sections

Beam	x[m]	SNo	LC	Mat	$\sigma-x$	$\sigma+x$	$\Delta\sigma$	τ	$\sigma-I$	$\sigma-II$	$\sigma-v$	N[kN]
30087	1.404	3	min	1	23.92	-35.04		0.19	0.00	-0.00	5.68	
			max	1	-45.06	43.95		0.82	43.95	-45.06	45.06	
30088	0.000	3	min	1	38.77	-56.85		0.19	0.00	-0.00	17.70	
			max	1	-67.01	64.40		2.16	64.40	-67.01	67.01	
	1.404	3	min	1	30.75	-54.24		0.20	0.00	-0.01	14.99	
			max	1	-69.64	72.73		2.41	72.73	-69.64	72.73	
30089	0.000	3	min	1	42.75	-68.53		0.15	0.00	-0.00	19.42	
			max	1	-84.36	84.05		1.88	84.05	-84.36	84.36	
	1.404	3	min	1	48.41	-66.32		0.18	0.00	-0.01	19.83	
			max	1	-86.58	77.64		2.13	77.64	-86.58	86.58	
30090	0.000	3	min	1	58.83	-76.33		0.21	0.00	-0.00	22.19	
			max	1	-96.96	83.49		0.84	83.49	-96.96	96.96	
	1.404	3	min	1	59.98	-73.09		0.16	0.00	-0.00	22.91	
			max	1	-100.22	82.22		1.09	82.23	-100.22	100.22	
30091	0.000	3	min	1	59.83	-73.13		0.22	0.00	-0.00	25.82	
			max	1	-100.20	82.43		0.92	82.43	-100.20	100.20	
	1.404	3	min	1	57.02	-73.86		0.25	0.00	-0.00	26.14	
			max	1	-99.49	85.39		0.81	85.39	-99.49	99.49	
30092	0.000	3	min	1	57.67	-78.63		0.24	0.00	-0.00	26.77	
			max	1	-104.56	91.54		1.85	91.54	-104.56	104.56	
	1.404	3	min	1	49.88	-77.20		0.20	0.00	-0.00	27.99	
			max	1	-106.00	99.77		1.80	99.77	-106.00	106.00	
30093	0.000	3	min	1	47.18	-74.88		0.16	0.00	0.00	26.75	
			max	1	-102.51	96.23		1.89	96.24	-102.51	102.51	
	1.404	3	min	1	51.36	-73.02		0.14	0.00	-0.00	21.20	
			max	1	-104.39	91.64		1.67	91.64	-104.39	104.39	
30094	0.000	3	min	1	36.13	-51.88		0.05	0.00	-0.03	16.28	
			max	1	-83.01	71.64		2.06	71.64	-83.01	83.01	
	1.404	3	min	1	48.44	-62.60		0.10	0.00	0.00	17.19	
			max	1	-72.30	59.32		1.80	59.32	-72.31	72.31	
30095	0.000	3	min	1	22.17	-31.89		0.10	0.00	-0.02	9.19	
			max	1	-41.27	33.97		1.82	33.97	-41.28	41.28	
	1.404	3	min	1	17.64	-21.45		0.41	0.03	-0.02	14.04	
			max	1	-51.73	38.41		1.56	38.41	-51.74	51.74	
30096	0.000	3	min	1	10.80	-10.26		1.97	2.40	-3.85	12.72	
			max	1	-41.21	31.67		19.79	38.11	-44.65	47.43	
	0.500	3	min	1	-17.20	4.73		1.97	4.83	-17.21	17.22	
			max	1	-158.53	168.35		19.79	168.84	-158.85	169.13	
30097	0.000	3	min	1	-7.06	11.54		0.33	11.54	-7.06	11.54	
			max	1	-77.53	63.38		3.78	63.44	-77.58	77.61	
	0.775	3	min	1	-2.20	4.21		0.52	4.25	-2.22	6.69	
			max	1	-32.87	18.72		3.58	18.90	-32.98	33.03	
	1.550	3	min	1	-1.20	1.19		0.65	1.58	-1.28	4.59	
			max	1	-24.08	14.66		3.39	14.72	-24.21	24.27	
	0.000	3	min	1	4.69	-11.96		0.01	0.01	0.00	8.08	
			max	1	-24.61	32.92		0.74	32.92	-24.61	32.92	
30098	0.700	3	min	1	10.01	-17.15		0.10	0.00	-0.01	6.28	
			max	1	-19.32	27.61		0.89	27.61	-19.32	27.61	
	1.400	3	min	1	16.94	-12.61		0.06	0.00	-0.02	4.88	
			max	1	-23.86	20.67		1.04	20.67	-23.86	23.86	
	0.000	3	min	1	37.82	-26.26		0.08	0.00	-0.00	10.92	
			max	1	-34.73	41.54		0.55	41.54	-34.73	41.55	
	0.700	3	min	1	34.29	-25.10		0.06	0.00	0.00	12.08	
			max	1	-33.67	45.07		0.38	45.07	-33.67	45.07	
30099	1.400	3	min	1	32.39	-24.68		0.06	0.00	0.00	12.34	
			max	1	-36.32	46.98		0.36	46.98	-36.32	46.98	
	0.000	3	min	1	50.37	-36.45		0.09	0.00	0.00	6.84	
			max	1	-50.25	64.96		0.43	64.96	-50.25	64.96	
	0.700	3	min	1	49.56	-36.96		0.01	0.00	0.00	6.95	
			max	1	-36.96	49.56		0.01	0.00	0.00	6.95	
	0.000	3	min	1	49.56	-36.96		0.01	0.00	0.00	6.95	
			max	1	-36.96	49.56		0.01	0.00	0.00	6.95	

Steel - Resistance of Cross Sections

Beam	x[m]	SNo	LC	Mat	$\sigma-x$	$\sigma+x$	$\Delta\sigma$	τ	$\sigma-I$	$\sigma-II$	$\sigma-v$	N[kN]
30100	0.700	3	max	1	-49.65	65.78		0.30	65.78	-49.65	65.78	
	1.400	3	min	1	50.36	-36.20		0.02	0.00	0.00	5.50	
			max	1	-50.47	64.97		0.21	64.97	-50.47	64.97	
30101	0.000	3	min	1	64.80	-47.39		0.07	0.00	-0.00	21.10	
			max	1	-61.71	79.41		0.39	79.41	-61.71	79.41	
	0.700	3	min	1	62.02	-46.10		0.03	0.00	0.00	22.38	
			max	1	-63.04	82.19		0.22	82.19	-63.04	82.19	
	1.400	3	min	1	60.87	-43.41		0.03	0.00	0.00	22.04	
			max	1	-65.67	83.34		0.37	83.34	-65.67	83.34	
30102	0.000	3	min	1	75.97	-54.58		0.11	0.00	0.00	26.10	
			max	1	-76.84	98.45		0.27	98.45	-76.84	98.45	
	0.700	3	min	1	75.62	-56.03		0.01	0.00	0.00	26.85	
			max	1	-75.63	98.81		0.12	98.81	-75.63	98.81	
	1.400	3	min	1	76.89	-56.07		0.10	0.00	0.00	25.97	
			max	1	-75.35	97.54		0.23	97.54	-75.35	97.54	
30103	0.000	3	min	1	74.02	-53.09		0.05	0.00	0.00	25.21	
			max	1	-72.37	94.67		0.32	94.67	-72.37	94.67	
	0.700	3	min	1	71.64	-52.37		0.03	0.00	0.00	26.43	
			max	1	-73.09	97.05		0.43	97.05	-73.09	97.05	
	1.400	3	min	1	70.89	-50.65		0.03	0.00	0.00	26.02	
			max	1	-75.23	97.80		0.56	97.80	-75.23	97.80	
30104	0.000	3	min	1	3.37	5.92		0.18	5.92	-0.01	5.92	
			max	1	-78.83	64.42		3.82	64.48	-78.87	78.90	
	0.775	3	min	1	3.41	4.34		0.08	4.38	-0.00	5.54	
			max	1	-33.48	20.97		3.63	21.01	-33.58	33.64	
	1.550	3	min	1	3.75	1.20		0.14	1.60	-0.00	4.76	
			max	1	-24.50	16.94		3.44	16.99	-24.62	24.69	
30105	0.000	3	min	1	4.54	-12.17		0.01	0.01	0.00	1.48	
			max	1	-24.59	33.61		0.76	33.61	-24.59	33.62	
	0.700	3	min	1	10.07	-17.30		0.12	0.01	-0.01	1.27	
			max	1	-19.38	28.09		0.91	28.09	-19.38	28.09	
	1.400	3	min	1	17.22	-12.70		0.06	0.00	-0.02	2.70	
			max	1	-23.98	20.93		1.06	20.94	-23.98	23.98	
30106	0.000	3	min	1	38.61	-25.84		0.09	0.00	-0.00	7.18	
			max	1	-35.08	42.33		0.56	42.33	-35.08	42.33	
	0.700	3	min	1	34.99	-25.11		0.07	0.00	0.00	8.25	
			max	1	-33.77	45.95		0.39	45.95	-33.77	45.95	
	1.400	3	min	1	33.00	-24.97		0.05	0.00	0.00	5.86	
			max	1	-36.34	47.94		0.38	47.94	-36.34	47.94	
30107	0.000	3	min	1	51.48	-36.72		0.12	0.00	0.00	4.78	
			max	1	-51.15	66.42		0.45	66.42	-51.15	66.42	
	0.700	3	min	1	50.63	-37.30		0.01	0.00	0.00	5.12	
			max	1	-50.47	67.27		0.32	67.27	-50.47	67.27	
	1.400	3	min	1	51.40	-36.67		0.04	0.00	0.00	5.28	
			max	1	-51.21	66.50		0.23	66.50	-51.21	66.50	
30108	0.000	3	min	1	66.00	-48.14		0.07	0.00	-0.00	4.32	
			max	1	-62.72	81.10		0.38	81.10	-62.72	81.10	
	0.700	3	min	1	63.31	-46.88		0.05	0.00	0.00	3.93	
			max	1	-63.90	83.79		0.22	83.79	-63.90	83.79	
	1.400	3	min	1	62.25	-44.28		0.02	0.00	0.00	3.81	
			max	1	-66.51	84.86		0.36	84.86	-66.51	84.86	
30109	0.000	3	min	1	77.49	-55.52		0.11	0.00	0.00	2.35	
			max	1	-77.75	100.10		0.27	100.10	-77.75	100.10	
	0.700	3	min	1	77.05	-56.89		0.01	0.00	0.00	27.32	
			max	1	-76.55	100.54		0.12	100.54	-76.55	100.54	
	1.400	3	min	1	78.23	-56.85		0.11	0.00	0.00	26.46	
			max	1	-76.42	99.36		0.22	99.36	-76.42	99.36	
30110	0.000	3	min	1	75.31	-53.58		0.06	0.00	0.00	16.05	
			max	1	-73.14	96.45		0.32	96.45	-73.14	96.45	

Steel - Resistance of Cross Sections

Beam	x[m]	SNo	LC	Mat	$\sigma-x$	$\sigma+x$	$\Delta\sigma$	τ	$\sigma-I$	$\sigma-II$	$\sigma-v$	N[kN]
30110	0.700	3	min	1	72.95	-52.75		0.04	0.00	0.00	15.85	
			max	1	-73.97	98.81		0.45	98.81	-73.97	98.81	
	1.400	3	min	1	72.22	-50.91		0.02	0.00	0.00	17.26	
			max	1	-76.21	99.54		0.58	99.54	-76.21	99.54	
30111	0.000	3	min	1	57.90	-38.24		0.02	0.00	0.00	22.66	
			max	1	-63.53	85.23		0.43	85.23	-63.53	85.23	
	0.700	3	min	1	58.61	-41.14		0.04	0.00	0.00	10.55	
			max	1	-60.22	84.51		0.29	84.51	-60.22	84.51	
	1.400	3	min	1	60.90	-42.98		0.07	0.00	-0.00	21.91	
			max	1	-58.37	82.22		0.47	82.22	-58.37	82.22	
30112	0.000	3	min	1	29.69	-19.70		0.08	0.00	-0.00	13.42	
			max	1	-32.92	51.01		1.09	51.01	-32.92	51.01	
	0.700	3	min	1	21.51	-15.55		0.10	0.01	0.00	16.15	
			max	1	-40.84	59.18		1.22	59.18	-40.84	59.18	
	1.400	3	min	1	14.96	-10.31		0.01	0.02	0.00	17.26	
			max	1	-51.27	65.73		1.35	65.73	-51.27	65.73	
30113	0.000	3	min	1	-4.76	3.94		1.38	4.07	-5.23	8.92	
			max	1	-34.50	44.51		6.55	44.71	-34.74	44.81	
	0.700	3	min	1	-7.00	7.46		1.56	7.55	-7.06	11.37	
			max	1	-46.54	60.08		6.42	60.22	-46.73	60.29	
	1.400	3	min	1	-24.65	25.31		1.71	25.34	-24.68	28.99	
			max	1	-110.75	127.15		6.30	127.21	-110.82	127.24	
30114	0.000	3	min	1	-6.57	-4.37		2.69	3.60	-9.65	11.74	
			max	1	-50.81	59.70		12.33	60.07	-51.43	60.26	
	0.150	3	min	1	5.82	-14.28		1.88	1.32	-4.50	8.05	
			max	1	-24.23	39.36		12.36	39.56	-28.76	39.66	
30115	0.000	3	min	1	5.81	-14.60		0.28	0.03	-0.14	6.34	
			max	1	-24.58	39.48		1.84	39.50	-24.59	39.51	
	1.404	3	min	1	9.97	-15.46		0.08	0.00	-0.17	5.29	
			max	1	-23.74	28.75		2.10	28.76	-23.74	28.77	
30116	0.000	3	min	1	27.24	-36.73		0.17	0.00	-0.01	10.14	
			max	1	-45.39	45.70		1.55	45.70	-45.39	45.70	
	1.404	3	min	1	26.94	-35.66		0.18	0.00	-0.00	5.44	
			max	1	-46.47	46.14		1.50	46.15	-46.47	46.48	
30117	0.000	3	min	1	39.54	-55.05		0.14	0.00	-0.00	17.53	
			max	1	-65.98	65.06		1.70	65.06	-65.98	65.98	
	1.404	3	min	1	30.70	-52.49		0.20	0.00	-0.01	14.69	
			max	1	-68.56	74.18		1.95	74.18	-68.56	74.18	
30118	0.000	3	min	1	42.90	-67.03		0.16	0.00	-0.00	3.70	
			max	1	-83.32	85.03		1.91	85.04	-83.32	85.04	
	1.404	3	min	1	51.65	-64.45		0.20	0.00	-0.00	2.09	
			max	1	-85.92	75.70		2.08	75.70	-85.92	85.92	
30119	0.000	3	min	1	61.27	-74.28		0.23	0.00	-0.00	25.35	
			max	1	-96.34	79.45		0.96	79.45	-96.34	96.34	
	1.404	3	min	1	54.40	-70.92		0.23	0.00	-0.00	25.83	
			max	1	-99.71	86.27		1.21	86.27	-99.71	99.71	
30120	0.000	3	min	1	54.37	-70.97		0.20	0.00	-0.00	2.49	
			max	1	-99.68	86.39		1.00	86.39	-99.68	99.68	
	1.404	3	min	1	60.61	-71.85		0.22	0.00	-0.00	3.32	
			max	1	-98.82	80.17		0.89	80.17	-98.82	98.82	
30121	0.000	3	min	1	60.90	-76.25		0.25	0.00	-0.00	26.93	
			max	1	-103.26	86.09		1.94	86.09	-103.26	103.26	
	1.404	3	min	1	49.63	-74.91		0.22	0.00	-0.00	27.56	
			max	1	-104.61	97.66		1.95	97.66	-104.61	104.61	
30122	0.000	3	min	1	45.76	-72.37		0.21	0.00	-0.00	26.41	
			max	1	-101.32	95.05		2.46	95.06	-101.32	101.32	
	1.404	3	min	1	48.33	-70.21		0.16	0.00	-0.00	26.51	
			max	1	-103.49	92.12		2.25	92.12	-103.49	103.49	
30123	0.000	3	min	1	36.43	-52.49		0.07	0.00	-0.01	21.96	

Steel - Resistance of Cross Sections

Beam	x[m]	SNo	LC	Mat	$\sigma-x$	$\sigma+x$	$\Delta\sigma$	τ	$\sigma-I$	$\sigma-II$	$\sigma-v$	N[kN]
30123	0.000	3	max	1	-85.98	74.11		1.50	74.11	-85.98	85.98	
	1.404	3	min	1	50.35	-63.98		0.12	0.00	0.00	18.25	
			max	1	-74.51	60.17		1.24	60.17	-74.52	74.52	
30124	0.000	3	min	1	23.50	-32.96		0.10	0.00	-0.02	1.55	
			max	1	-42.96	33.52		1.27	33.52	-42.96	42.96	
	1.404	3	min	1	20.10	-22.47		0.14	0.02	-0.00	3.97	
30125			max	1	-53.46	36.81		1.19	36.81	-53.47	53.47	
	0.000	3	min	1	10.36	-9.72		2.59	2.07	-8.16	11.39	
			max	1	-42.19	32.61		23.06	41.32	-45.69	48.50	
30126	0.500	3	min	1	-9.75	-2.73		2.59	0.96	-9.76	9.76	
			max	1	-159.85	190.25		23.06	190.78	-160.15	191.04	
	0.000	3	min	1	52.38	-51.00		0.14	0.00	-0.00	0.59	
30127			max	1	-69.82	69.84		0.51	69.84	-69.82	69.84	
	0.700	3	min	1	50.97	-49.99		0.04	0.00	0.00	0.93	
			max	1	-69.45	71.25		0.64	71.25	-69.45	71.25	
30128	1.400	3	min	1	50.49	-48.68		0.12	0.00	0.00	0.45	
			max	1	-71.52	71.73		0.77	71.73	-71.52	71.73	
	0.000	3	min	1	25.30	-20.26		0.06	0.00	-0.00	2.03	
30129			max	1	-43.13	46.55		1.18	46.55	-43.13	46.55	
	0.700	3	min	1	17.90	-12.74		0.07	0.00	-0.00	2.83	
			max	1	-53.03	53.95		1.31	53.95	-53.04	53.95	
30130	1.400	3	min	1	12.12	-7.85		0.04	0.04	0.00	2.46	
			max	1	-62.95	59.73		1.44	59.73	-62.95	62.95	
	0.000	3	min	1	1.19	-3.30		0.09	0.00	-0.05	4.86	
30131			max	1	-31.23	48.99		7.12	49.23	-31.41	49.34	
	0.700	3	min	1	1.61	-2.05		0.24	0.02	-0.09	5.72	
			max	1	-41.01	64.00		6.99	64.16	-41.14	64.23	
30132	1.400	3	min	1	-3.80	0.84		0.39	0.86	-3.82	8.99	
			max	1	-103.23	137.59		6.85	137.66	-103.32	137.69	
	0.000	3	min	1	-5.67	-0.00		3.36	6.04	-12.77	13.08	
30133			max	1	-50.99	73.04		37.74	73.57	-54.60	84.83	
	0.150	3	min	1	3.19	-6.92		3.32	2.68	-7.15	7.50	
			max	1	-22.62	38.15		37.77	51.78	-32.12	69.72	
30134	0.000	3	min	1	0.69	-7.97		0.83	0.20	-1.36	6.64	
			max	1	-22.42	37.91		4.08	37.93	-22.45	37.94	
	1.404	3	min	1	2.26	-8.22		0.60	0.07	-0.94	5.62	
30135			max	1	-22.20	33.70		4.36	33.75	-22.22	33.78	
	0.000	3	min	1	27.09	-25.15		0.85	0.19	-0.03	5.93	
			max	1	-38.40	44.03		3.85	44.05	-38.44	44.06	
30136	1.404	3	min	1	27.37	-19.22		0.65	0.23	-0.02	11.45	
			max	1	-44.35	43.80		3.87	43.81	-44.39	44.41	
	0.000	3	min	1	37.32	-25.65		1.09	0.08	-0.10	15.12	
30137			max	1	-57.47	52.39		3.68	52.43	-57.52	57.55	
	1.404	3	min	1	41.28	-23.00		1.14	0.09	-0.08	15.84	
			max	1	-60.13	48.26		3.85	48.29	-60.21	60.25	
30138	0.000	3	min	1	49.50	-39.22		0.92	0.08	-0.07	19.25	
			max	1	-73.25	73.32		3.17	73.34	-73.25	73.35	
	1.404	3	min	1	49.75	-36.78		0.81	0.06	-0.07	15.27	
30139			max	1	-75.71	72.00		2.88	72.00	-75.71	75.71	
	0.000	3	min	1	51.51	-43.37		0.69	0.02	-0.01	21.69	
			max	1	-82.91	87.41		2.26	87.42	-82.92	87.42	
30140	1.404	3	min	1	45.02	-46.47		0.69	0.02	-0.02	17.21	
			max	1	-79.83	94.29		2.22	94.29	-79.84	94.29	
	0.000	3	min	1	53.67	-47.72		0.48	0.02	-0.01	6.91	
30141			max	1	-78.70	85.84		1.37	85.84	-78.70	85.84	
	1.404	3	min	1	58.24	-43.18		0.45	0.02	-0.01	13.04	
			max	1	-83.26	80.90		1.30	80.90	-83.26	83.26	
30142	0.000	3	min	1	57.20	-45.80		0.29	0.06	-0.00	23.55	
			max	1	-90.89	92.70		2.91	92.70	-90.89	92.70	

Steel - Resistance of Cross Sections

Beam	x[m]	SNo	LC	Mat	$\sigma-x$	$\sigma+x$	$\Delta\sigma$	τ	$\sigma-I$	$\sigma-II$	$\sigma-v$	N[kN]
30136	1.404	3	min	1	65.54	-44.98		0.18	0.06	-0.00	24.03	
			max	1	-91.73	83.80		3.05	83.80	-91.73	91.73	
30137	0.000	3	min	1	51.90	-42.35		1.39	0.09	-0.09	22.69	
			max	1	-86.35	87.66		4.74	87.66	-86.41	87.66	
	1.404	3	min	1	47.22	-40.80		1.23	0.07	-0.09	17.64	
			max	1	-87.91	91.54		4.45	91.54	-87.96	91.55	
30138	0.000	3	min	1	40.27	-33.47		0.98	0.10	-0.09	20.16	
			max	1	-78.34	80.25		4.05	80.27	-78.36	80.28	
	1.404	3	min	1	47.53	-48.62		1.20	0.11	-0.09	16.33	
			max	1	-63.21	72.04		3.96	72.05	-63.22	72.05	
30139	0.000	3	min	1	25.46	-23.76		0.60	0.02	-0.21	7.47	
			max	1	-37.79	37.66		5.28	37.80	-37.79	38.01	
	1.404	3	min	1	18.10	-15.23		0.75	0.07	-0.12	6.63	
			max	1	-46.34	45.19		5.03	45.27	-46.37	46.38	
30140	0.000	3	min	1	5.20	0.11		3.53	3.78	-3.08	12.67	
			max	1	-48.64	77.91		28.59	83.78	-50.06	89.06	
	0.500	3	min	1	-12.32	0.98		3.53	3.77	-12.36	12.38	
			max	1	-153.88	207.15		28.59	207.25	-154.18	207.30	
30141	0.000	3	min	1	59.73	-72.41		0.20	0.00	-0.01	22.73	
			max	1	-99.98	81.45		0.95	81.45	-99.98	99.98	
	1.404	3	min	1	56.12	-73.04		0.22	0.00	-0.00	22.65	
			max	1	-99.36	85.21		0.82	85.21	-99.37	99.37	
30142	0.000	3	min	1	56.79	-77.90		0.27	0.00	-0.01	23.95	
			max	1	-104.93	91.81		1.99	91.81	-104.93	104.93	
	1.404	3	min	1	47.14	-74.48		0.18	0.00	-0.01	24.77	
			max	1	-108.36	101.91		2.05	101.91	-108.36	108.36	
30143	0.000	3	min	1	45.17	-72.98		0.29	0.00	-0.02	27.70	
			max	1	-105.51	99.03		2.46	99.04	-105.51	105.51	
	1.404	3	min	1	51.07	-73.21		0.19	0.00	-0.01	27.73	
			max	1	-105.30	92.76		2.21	92.76	-105.30	105.30	
30144	0.000	3	min	1	36.03	-52.09		0.10	0.00	-0.01	21.92	
			max	1	-83.83	72.40		1.56	72.40	-83.83	83.83	
	1.404	3	min	1	49.14	-63.31		0.22	0.00	-0.00	17.06	
			max	1	-72.63	59.30		1.30	59.30	-72.64	72.64	
30145	0.000	3	min	1	21.88	-31.59		0.37	0.01	-0.07	10.41	
			max	1	-40.89	33.52		2.17	33.54	-40.92	40.94	
	1.404	3	min	1	16.94	-20.57		0.67	0.06	-0.03	11.59	
			max	1	-51.93	38.37		2.31	38.38	-51.93	51.94	
30146	0.000	3	min	1	12.04	-7.85		1.86	2.37	-5.37	8.99	
			max	1	-43.88	30.32		19.38	38.68	-47.39	50.16	
	0.500	3	min	1	-8.54	4.94		1.86	5.01	-8.57	8.58	
			max	1	-157.85	167.67		19.38	168.18	-158.16	168.47	
30147	0.000	3	min	1	28.90	-34.38		0.38	0.01	-0.04	8.20	
			max	1	-43.70	45.76		2.01	45.76	-43.70	45.76	
	1.404	3	min	1	27.44	-32.68		0.23	0.00	-0.05	11.94	
			max	1	-45.41	47.25		1.72	47.26	-45.41	47.26	
30148	0.000	3	min	1	44.61	-52.67		0.17	0.00	-0.02	17.73	
			max	1	-66.99	70.38		2.07	70.39	-66.99	70.39	
	1.404	3	min	1	31.63	-48.23		0.30	0.00	-0.03	18.92	
			max	1	-71.45	83.49		2.32	83.49	-71.45	83.49	
30149	0.000	3	min	1	43.79	-62.86		0.15	0.00	-0.01	6.24	
			max	1	-85.52	94.21		1.69	94.21	-85.53	94.22	
	1.404	3	min	1	56.62	-62.41		0.28	0.00	-0.01	3.95	
			max	1	-85.99	80.93		1.63	80.93	-85.99	85.99	
30150	0.000	3	min	1	67.71	-72.54		0.31	0.00	-0.00	3.54	
			max	1	-96.38	86.33		1.44	86.33	-96.38	96.39	
	1.404	3	min	1	60.20	-69.59		0.24	0.00	-0.01	1.68	
			max	1	-99.35	93.67		1.69	93.67	-99.35	99.35	
30151	0.000	3	min	1	59.96	-69.76		0.26	0.00	-0.01	2.28	

Steel - Resistance of Cross Sections

Beam	x[m]	SNo	LC	Mat	$\sigma-x$	$\sigma+x$	$\Delta\sigma$	τ	$\sigma-I$	$\sigma-II$	$\sigma-v$	N[kN]
30151	0.000	3	max	1	-99.14	93.85		1.13	93.85	-99.14	99.14	
	1.404	3	min	1	66.81	-70.28		0.28	0.00	-0.01	3.87	
			max	1	-98.64	87.18		0.96	87.18	-98.64	98.64	
30152	0.000	3	min	1	67.65	-75.04		0.35	0.01	-0.01	25.83	
			max	1	-104.23	93.96		2.48	93.96	-104.24	104.24	
	1.404	3	min	1	51.96	-72.03		0.22	0.00	-0.01	28.37	
30153			max	1	-107.26	109.71		2.71	109.71	-107.26	109.71	
	0.000	3	min	1	48.93	-70.31		0.39	0.01	-0.02	27.48	
			max	1	-104.25	108.26		3.11	108.27	-104.25	108.28	
30154	1.404	3	min	1	54.66	-70.19		0.27	0.00	-0.02	18.42	
			max	1	-104.39	102.36		2.86	102.37	-104.39	104.39	
	0.000	3	min	1	37.04	-50.22		0.18	0.00	-0.01	21.72	
30155			max	1	-83.87	78.72		1.79	78.72	-83.87	83.87	
	1.404	3	min	1	54.35	-62.02		0.28	0.00	-0.01	17.64	
			max	1	-72.09	61.35		1.53	61.35	-72.09	72.09	
30156	0.000	3	min	1	25.21	-31.16		0.38	0.01	-0.05	9.53	
			max	1	-40.25	31.69		2.05	31.70	-40.27	40.29	
	1.404	3	min	1	20.33	-19.99		0.62	0.05	-0.03	9.56	
30157			max	1	-51.43	36.44		2.20	36.45	-51.43	51.43	
	0.000	3	min	1	8.55	-8.60		2.07	1.99	-5.14	11.49	
			max	1	-43.13	36.15		23.45	45.09	-46.59	50.78	
30158	0.500	3	min	1	-14.03	2.70		2.07	3.54	-14.03	14.03	
			max	1	-156.82	195.83		23.45	196.35	-157.09	196.61	
	0.000	3	min	1	-7.06	11.76		0.38	11.77	-7.06	11.77	
30159			max	1	-74.85	61.73		3.68	61.77	-74.89	74.91	
	0.775	3	min	1	-1.94	3.98		0.57	4.01	-1.96	6.06	
			max	1	-31.75	18.62		3.48	18.76	-31.82	31.86	
30160	1.550	3	min	1	-1.20	1.56		0.57	1.73	-1.27	4.09	
			max	1	-22.93	14.00		3.29	14.05	-23.04	23.10	
	0.000	3	min	1	4.41	-10.25		0.06	0.01	-0.00	7.76	
30161			max	1	-23.47	31.48		0.77	31.48	-23.47	31.48	
	0.700	3	min	1	8.64	-16.07		0.09	0.00	-0.01	6.52	
			max	1	-18.84	27.24		0.91	27.24	-18.84	27.24	
30162	1.400	3	min	1	13.60	-10.21		0.10	0.00	-0.02	3.46	
			max	1	-23.85	22.28		1.06	22.29	-23.86	23.86	
	0.000	3	min	1	31.73	-22.08		0.13	0.00	0.00	9.93	
30163			max	1	-32.52	40.42		0.53	40.42	-32.52	40.42	
	0.700	3	min	1	31.19	-23.86		0.04	0.00	0.00	9.17	
			max	1	-29.98	40.96		0.40	40.96	-29.98	40.96	
30164	1.400	3	min	1	32.23	-24.45		0.04	0.00	0.00	9.92	
			max	1	-29.58	39.92		0.32	39.92	-29.58	39.92	
	0.000	3	min	1	46.13	-35.12		0.04	0.00	-0.00	13.93	
30165			max	1	-40.32	53.82		0.50	53.82	-40.32	53.82	
	0.700	3	min	1	42.22	-32.52		0.08	0.00	0.00	15.27	
			max	1	-42.34	57.73		0.35	57.73	-42.34	57.73	
30166	1.400	3	min	1	39.89	-29.07		0.03	0.00	0.00	15.50	
			max	1	-46.10	60.07		0.49	60.07	-46.10	60.07	
	0.000	3	min	1	55.86	-42.02		0.12	0.00	-0.00	19.64	
30167			max	1	-59.08	76.04		0.36	76.04	-59.08	76.04	
	0.700	3	min	1	54.45	-41.99		0.02	0.00	0.00	20.55	
			max	1	-59.64	77.45		0.19	77.45	-59.64	77.45	
30168	1.400	3	min	1	54.65	-40.55		0.08	0.00	0.00	19.85	
			max	1	-60.63	77.25		0.31	77.25	-60.63	77.25	
	0.000	3	min	1	70.41	-52.71		0.11	0.00	0.00	23.95	
30169			max	1	-72.82	93.01		0.26	93.01	-72.82	93.01	
	0.700	3	min	1	69.20	-53.44		0.02	0.00	0.00	24.49	
			max	1	-72.55	94.21		0.10	94.21	-72.55	94.21	
30170	1.400	3	min	1	69.63	-52.75		0.12	0.00	0.00	17.94	
			max	1	-72.38	93.79		0.24	93.79	-72.38	93.79	
	0.000	3	min	1	70.41	-52.71		0.11	0.00	0.00	23.95	

Steel - Resistance of Cross Sections

Beam	x[m]	SNo	LC	Mat	$\sigma-x$	$\sigma+x$	$\Delta\sigma$	τ	$\sigma-I$	$\sigma-II$	$\sigma-v$	N[kN]
30163	0.000	3	min	1	65.32	-48.45		0.08	0.00	0.00	16.77	
			max	1	-68.07	89.48		0.32	89.48	-68.07	89.48	
	0.700	3	min	1	65.74	-50.23		0.03	0.00	0.00	22.66	
			max	1	-66.37	89.06		0.21	89.06	-66.37	89.06	
	1.400	3	min	1	67.79	-50.55		0.06	0.00	-0.00	22.55	
			max	1	-66.03	87.01		0.38	87.01	-66.03	87.01	
30164	0.000	3	min	1	57.40	-41.70		0.11	0.00	0.00	19.80	
			max	1	-57.16	76.62		0.35	76.62	-57.16	76.62	
	0.700	3	min	1	55.91	-41.62		0.05	0.00	0.00	11.22	
			max	1	-57.76	78.11		0.47	78.11	-57.76	78.11	
	1.400	3	min	1	55.35	-40.11		0.11	0.00	0.00	15.19	
			max	1	-58.87	78.67		0.60	78.67	-58.87	78.67	
30165	0.000	3	min	1	27.72	-17.75		0.06	0.00	-0.00	12.86	
			max	1	-35.77	51.05		0.93	51.05	-35.78	51.05	
	0.700	3	min	1	19.91	-14.07		0.09	0.00	0.00	15.33	
			max	1	-42.92	58.86		1.06	58.86	-42.93	58.86	
	1.400	3	min	1	13.72	-8.98		0.02	0.02	0.00	16.55	
			max	1	-50.88	65.05		1.19	65.05	-50.88	65.05	
30166	0.000	3	min	1	-4.35	2.35		1.28	2.59	-4.67	8.02	
			max	1	-33.68	37.39		5.67	37.57	-33.87	37.68	
	0.700	3	min	1	-9.11	6.03		1.36	6.14	-9.24	9.87	
			max	1	-44.03	48.61		5.54	48.74	-44.17	48.81	
	1.400	3	min	1	-23.90	23.23		1.23	23.24	-23.92	23.92	
			max	1	-104.28	106.26		5.62	106.32	-104.35	106.35	
30167	0.000	3	min	1	-10.04	1.64		4.46	6.53	-11.85	12.47	
			max	1	-54.08	53.36		25.70	59.63	-55.96	65.09	
	0.150	3	min	1	5.86	-9.51		4.43	3.55	-7.23	8.90	
			max	1	-22.87	38.60		25.73	38.60	-35.13	47.73	
30168	0.000	3	min	1	6.31	-9.22		0.41	0.04	-0.22	7.02	
			max	1	-24.09	38.84		3.00	38.85	-24.10	38.85	
	1.404	3	min	1	8.32	-8.49		0.19	0.01	-0.29	6.18	
			max	1	-24.84	26.16		3.26	26.22	-24.84	26.25	
30169	0.000	3	min	1	21.27	-30.15		0.55	0.05	-0.23	9.01	
			max	1	-39.83	38.21		2.95	38.23	-39.87	39.89	
	1.404	3	min	1	15.82	-24.56		0.56	0.06	-0.22	6.54	
			max	1	-45.44	44.01		2.90	44.03	-45.46	45.47	
30170	0.000	3	min	1	16.06	-29.43		0.98	0.06	-0.27	16.41	
			max	1	-63.30	61.22		3.39	61.24	-63.34	63.36	
	1.404	3	min	1	9.07	-27.41		1.03	0.06	-0.43	16.97	
			max	1	-65.34	69.61		3.63	69.65	-65.39	69.67	
30171	0.000	3	min	1	26.16	-48.59		0.74	0.05	-0.05	20.01	
			max	1	-76.40	77.68		2.55	77.69	-76.40	77.69	
	1.404	3	min	1	30.68	-45.46		0.65	0.03	-0.05	20.80	
			max	1	-79.55	72.30		2.69	72.31	-79.55	79.55	
30172	0.000	3	min	1	35.55	-49.88		0.55	0.01	-0.06	23.69	
			max	1	-91.76	79.90		2.27	79.92	-91.77	91.78	
	1.404	3	min	1	44.38	-52.64		0.63	0.02	-0.04	22.72	
			max	1	-89.03	71.67		2.48	71.68	-89.04	89.04	
30173	0.000	3	min	1	48.69	-57.25		0.41	0.01	-0.02	21.22	
			max	1	-84.61	67.53		1.39	67.53	-84.61	84.61	
	1.404	3	min	1	38.90	-53.03		0.38	0.01	-0.02	16.49	
			max	1	-88.85	76.66		1.39	76.66	-88.85	88.85	
30174	0.000	3	min	1	34.64	-52.57		0.34	0.00	-0.08	18.54	
			max	1	-100.22	88.62		4.03	88.62	-100.22	100.22	
	1.404	3	min	1	27.57	-51.89		0.26	0.00	-0.11	26.11	
			max	1	-100.92	96.47		3.80	96.47	-100.92	100.92	
30175	0.000	3	min	1	27.71	-52.66		1.19	0.06	-0.24	23.98	
			max	1	-91.71	87.79		4.64	87.85	-91.75	91.77	
	1.404	3	min	1	31.65	-50.08		1.02	0.04	-0.20	24.71	

Steel - Resistance of Cross Sections

Beam	x[m]	SNo	LC	Mat	$\sigma-x$	$\sigma+x$	$\Delta\sigma$	τ	$\sigma-I$	$\sigma-II$	$\sigma-v$	N[kN]
30175	1.404	3	max	1	-94.31	83.45		4.74	83.49	-94.34	94.35	
30176	0.000	3	min	1	23.43	-37.47		0.73	0.05	-0.03	22.43	
			max	1	-86.69	75.68		2.82	75.69	-86.70	86.70	
	1.404	3	min	1	45.00	-52.61		0.68	0.07	-0.02	17.74	
			max	1	-71.57	54.29		3.11	54.29	-71.57	71.58	
30177	0.000	3	min	1	19.77	-28.11		0.23	0.01	-0.04	8.93	
			max	1	-40.97	33.36		3.51	33.38	-41.02	41.04	
	1.404	3	min	1	15.05	-18.37		0.49	0.05	-0.08	8.61	
			max	1	-50.73	38.06		3.26	38.11	-50.73	50.73	
30178	0.000	3	min	1	0.25	2.82		4.60	5.75	-8.26	16.99	
			max	1	-65.91	55.72		22.09	58.07	-66.95	68.99	
	0.500	3	min	1	-14.54	12.30		3.38	12.45	-14.75	14.87	
			max	1	-149.85	157.14		22.09	157.46	-149.98	157.61	
30179	0.000	3	min	1	-0.74	5.07		0.17	5.07	-0.87	5.07	
			max	1	-91.74	70.42		4.98	70.43	-91.77	91.78	
	0.775	3	min	1	-1.28	4.18		0.31	4.18	-1.32	4.18	
			max	1	-39.82	18.62		4.83	18.65	-39.88	39.91	
	1.550	3	min	1	1.78	1.99		0.46	2.00	-0.34	2.00	
			max	1	-32.56	12.65		4.69	12.74	-32.58	32.58	
30180	0.000	3	min	1	4.39	2.35		0.17	2.35	-0.02	2.75	
			max	1	-33.31	13.35		2.04	13.35	-33.32	33.33	
	0.700	3	min	1	1.73	3.05		0.19	3.05	-0.03	3.06	
			max	1	-37.63	15.04		2.18	15.05	-37.65	37.66	
	1.400	3	min	1	-1.33	5.04		0.32	5.04	-1.33	5.04	
			max	1	-40.61	20.26		2.32	20.26	-40.64	40.66	
30181	0.000	3	min	1	-1.29	5.07		0.92	5.09	-1.56	5.10	
			max	1	-39.08	21.67		3.11	21.70	-39.13	39.16	
	0.700	3	min	1	-4.76	8.54		0.79	8.55	-4.77	8.55	
			max	1	-59.49	39.97		2.96	39.97	-59.49	59.50	
	1.400	3	min	1	-11.80	15.59		0.66	15.59	-11.81	15.59	
			max	1	-83.51	63.80		2.97	63.80	-83.51	83.51	
30182	0.000	3	min	1	-13.06	14.32		6.12	15.17	-13.96	16.28	
			max	1	-79.74	67.57		25.10	67.63	-79.77	79.78	
	0.400	3	min	1	-23.94	22.06		6.20	23.69	-24.34	25.82	
			max	1	-90.20	95.23		25.03	96.79	-91.77	97.62	
30183	0.000	3	min	1	-23.93	21.86		1.13	21.87	-23.98	25.26	
			max	1	-90.18	95.25		8.42	95.39	-90.36	95.47	
	1.000	3	min	1	-8.22	9.49		1.34	9.59	-8.36	9.64	
			max	1	-49.81	37.61		8.21	37.78	-49.88	49.92	
30184	0.000	3	min	1	-8.04	9.67		0.51	9.68	-8.05	9.68	
			max	1	-48.55	38.87		2.21	38.87	-48.57	48.58	
	0.700	3	min	1	-2.53	4.16		0.64	4.18	-2.55	4.19	
			max	1	-36.20	26.52		2.36	26.52	-36.23	36.24	
	1.400	3	min	1	-2.86	4.49		0.74	4.52	-2.89	4.54	
			max	1	-37.21	27.52		2.51	27.52	-37.22	37.23	
30185	0.000	3	min	1	-3.15	4.19		0.73	4.21	-3.21	4.22	
			max	1	-34.97	29.76		2.60	29.78	-34.97	34.97	
	0.700	3	min	1	-3.08	4.12		0.68	4.15	-3.11	4.16	
			max	1	-35.45	30.24		2.45	30.26	-35.45	35.45	
	1.400	3	min	1	-8.93	9.97		0.55	9.97	-8.93	9.98	
			max	1	-49.47	44.22		2.30	44.24	-49.47	49.47	
30186	0.000	3	min	1	-9.29	9.60		0.84	9.74	-9.47	9.81	
			max	1	-48.57	45.12		9.30	45.21	-48.71	48.78	
	0.900	3	min	1	-24.81	25.11		0.90	25.17	-24.87	25.20	
			max	1	-92.59	93.26		9.49	93.46	-92.82	93.57	
30187	0.000	3	min	1	-24.80	25.12		4.94	25.34	-25.00	25.45	
			max	1	-92.56	93.28		20.55	94.07	-93.29	94.48	
	0.500	3	min	1	-12.38	12.70		4.85	13.02	-12.82	13.71	
			max	1	-76.28	72.70		20.64	72.70	-76.29	76.29	

Steel - Resistance of Cross Sections

Beam	x[m]	SNo	LC	Mat	$\sigma-x$	$\sigma+x$	$\Delta\sigma$	τ	$\sigma-I$	$\sigma-II$	$\sigma-v$	N[kN]
30188	0.000	3	min	1	-10.80	14.28		0.62	14.28	-10.80	14.28	
			max	1	-78.43	70.56		3.14	70.56	-78.43	78.43	
	0.700	3	min	1	-4.20	7.67		0.75	7.69	-4.21	7.69	
			max	1	-52.26	44.40		3.02	44.40	-52.26	52.26	
	1.400	3	min	1	-1.19	4.67		0.88	4.70	-1.33	4.72	
			max	1	-36.25	28.38		2.93	28.46	-36.27	36.28	
30189	0.000	3	min	1	-1.62	4.23		0.44	4.23	-1.64	4.24	
			max	1	-34.80	29.83		2.06	29.84	-34.80	34.80	
	0.700	3	min	1	2.98	1.82		0.31	1.82	-0.10	1.82	
			max	1	-19.24	15.68		2.18	15.68	-19.30	19.34	
	1.400	3	min	1	-0.90	3.51		0.18	3.52	-0.91	3.52	
			max	1	-13.95	14.27		2.31	14.28	-14.01	14.28	
30190	0.000	3	min	1	-2.79	1.63		0.35	1.63	-2.81	2.81	
			max	1	-12.37	17.39		3.03	17.41	-12.43	17.42	
	0.700	3	min	1	0.58	1.17		0.48	1.32	-0.51	1.52	
			max	1	-13.22	18.45		2.91	18.46	-13.22	18.46	
	1.400	3	min	1	-4.95	6.50		0.61	6.50	-4.95	6.91	
			max	1	-37.64	42.16		2.78	42.16	-37.65	42.17	
30191	0.000	3	min	1	-6.05	2.31		10.64	12.07	-15.82	20.99	
			max	1	-32.03	44.81		55.74	69.20	-71.53	100.55	
	0.150	3	min	1	-3.13	0.02		10.67	10.25	-14.02	20.07	
			max	1	-22.40	35.17		55.71	61.58	-64.46	97.86	
30192	0.000	3	min	1	-0.84	-1.42		3.59	3.46	-6.13	7.38	
			max	1	-20.22	32.69		15.88	35.28	-23.20	37.74	
	1.404	3	min	1	-1.79	-2.35		3.35	2.69	-4.82	6.31	
			max	1	-10.83	15.91		15.59	23.20	-21.68	28.92	
30193	0.000	3	min	1	-4.14	1.50		2.47	3.13	-5.53	5.65	
			max	1	-21.91	22.14		9.76	22.38	-22.73	23.43	
	1.404	3	min	1	-5.97	3.85		2.52	4.61	-6.37	7.77	
			max	1	-30.71	32.15		9.98	32.67	-31.40	32.97	
30194	0.000	3	min	1	-2.22	-1.02		1.65	1.66	-3.65	4.55	
			max	1	-17.06	21.39		5.95	21.82	-18.00	22.07	
	1.404	3	min	1	-3.47	0.09		1.76	2.47	-4.44	5.26	
			max	1	-27.28	34.73		6.23	34.77	-27.49	34.79	
30195	0.000	3	min	1	-8.93	4.83		1.71	4.91	-9.03	9.09	
			max	1	-43.13	49.15		6.37	49.36	-43.38	49.47	
	1.404	3	min	1	-9.69	5.40		1.66	5.43	-9.75	9.78	
			max	1	-36.93	37.22		6.27	37.50	-37.25	37.65	
30196	0.000	3	min	1	-1.42	0.19		1.01	0.64	-1.89	7.69	
			max	1	-25.27	24.54		3.35	24.59	-25.32	25.34	
	1.404	3	min	1	5.59	-1.45		0.86	0.20	-0.28	5.34	
			max	1	-21.62	16.68		3.12	16.79	-21.70	21.75	
30197	0.000	3	min	1	-3.61	2.69		0.74	2.74	-3.65	9.35	
			max	1	-36.98	31.33		3.05	31.34	-37.00	37.00	
	1.404	3	min	1	-9.34	4.26		0.88	4.26	-9.41	10.93	
			max	1	-41.05	39.42		3.07	39.46	-41.08	41.09	
30198	0.000	3	min	1	-4.02	1.68		1.04	1.80	-4.35	5.73	
			max	1	-22.11	23.12		5.11	23.53	-22.39	23.74	
	1.404	3	min	1	-4.48	0.46		1.18	1.03	-4.54	4.61	
			max	1	-29.79	36.31		4.94	36.51	-29.95	36.62	
30199	0.000	3	min	1	-8.95	6.05		2.48	6.41	-9.08	9.17	
			max	1	-43.86	50.21		9.22	50.26	-44.02	50.29	
	1.404	3	min	1	-8.74	5.64		2.23	5.70	-9.01	9.13	
			max	1	-35.24	38.14		8.93	38.65	-35.90	38.98	
30200	0.000	3	min	1	-3.61	-0.81		2.38	2.94	-4.45	6.75	
			max	1	-20.48	20.80		9.20	21.85	-22.72	24.50	
	1.404	3	min	1	3.07	-3.25		2.47	1.42	-2.08	4.74	
			max	1	-11.87	11.68		9.46	14.26	-16.35	19.24	
30201	0.000	3	min	1	-1.86	-0.80		1.56	2.87	-5.04	5.22	

Steel - Resistance of Cross Sections

Beam	x[m]	SNo	LC	Mat	$\sigma-x$	$\sigma+x$	$\Delta\sigma$	τ	$\sigma-I$	$\sigma-II$	$\sigma-v$	N[kN]
30201	0.000	3	max	1	-16.23	11.23		19.74	23.06	-28.73	37.40	
	1.404	3	min	1	-3.74	-0.80		1.27	3.84	-5.90	7.34	
			max	1	-14.30	16.00		19.96	24.70	-26.39	36.20	
30202	0.000	3	min	1	-10.46	9.84		2.73	10.81	-13.56	13.65	
			max	1	-69.76	63.69		17.08	63.73	-70.46	70.86	
	0.500	3	min	1	-10.95	8.12		2.73	8.14	-10.96	10.97	
60001			max	1	-93.78	99.47		17.08	99.50	-94.09	99.51	
	0.000	6	min	1	-2.62	3.72		0.77	3.76	-2.68	3.78	
			max	1	-137.56	145.20		28.99	145.67	-138.05	145.90	
	0.600	6	min	1	-1.45	2.58		0.64	2.58	-1.45	2.58	
			max	1	-78.73	75.26		22.47	76.17	-80.14	80.85	
	1.200	6	min	1	-4.34	5.38		0.53	5.40	-4.36	5.41	
			max	1	-134.66	130.11		15.95	131.22	-135.37	135.72	
	1.800	6	min	1	-6.70	7.70		0.40	7.71	-6.71	7.71	
			max	1	-152.66	148.80		15.34	149.53	-153.97	154.63	
	2.400	6	min	1	-7.95	8.90		0.24	8.91	-7.96	8.91	
			max	1	-104.73	100.97		24.62	102.69	-107.96	109.61	
	3.000	6	min	1	-2.81	3.79		0.25	4.21	-3.44	5.06	
			max	1	-32.58	31.13		33.90	35.18	-36.56	58.74	
	3.600	6	min	1	-9.99	11.12		0.36	11.12	-10.00	11.12	
			max	1	-196.64	191.19		30.92	192.40	-197.23	197.53	
60002	0.000	6	min	1	-24.84	26.41		3.59	26.46	-24.96	26.49	
			max	1	-148.51	143.95		17.74	144.48	-148.77	148.90	
	0.583	6	min	1	-4.16	5.56		2.42	5.70	-4.46	5.82	
			max	1	-47.15	43.22		13.50	44.08	-47.57	47.79	
	1.167	6	min	1	-7.11	8.41		1.25	8.45	-7.13	8.48	
			max	1	-33.76	38.59		9.71	38.82	-33.90	38.93	
	1.750	6	min	1	-11.59	12.87		0.10	12.87	-11.59	12.87	
			max	1	-55.68	60.40		5.93	60.40	-55.69	60.40	
	2.333	6	min	1	-7.88	7.71		0.69	7.74	-7.89	8.86	
			max	1	-38.01	42.97		8.15	43.11	-38.07	43.18	
	2.917	6	min	1	-2.56	4.01		2.27	4.20	-2.95	4.34	
			max	1	-17.42	19.25		13.54	20.14	-19.73	23.59	
60003	3.500	6	min	1	-22.44	24.09		3.44	24.14	-22.56	24.16	
			max	1	-109.60	116.11		16.57	116.34	-110.16	116.46	
	0.000	6	min	1	-22.45	24.27		3.47	24.32	-22.57	24.35	
			max	1	-109.83	116.92		16.78	117.16	-110.41	117.28	
	0.583	6	min	1	-2.36	3.70		2.29	4.19	-2.79	4.33	
			max	1	-14.09	18.81		11.11	19.78	-15.05	20.49	
	1.167	6	min	1	-8.10	9.61		1.12	9.64	-8.12	9.65	
			max	1	-45.63	45.29		5.44	45.44	-45.74	45.80	
	1.750	6	min	1	-8.86	10.43		0.05	10.43	-8.86	10.43	
			max	1	-62.27	63.99		0.44	63.99	-62.27	63.99	
	2.333	6	min	1	-7.73	9.22		1.22	9.26	-7.75	9.28	
			max	1	-41.61	43.46		5.89	43.65	-41.81	43.74	
60004	2.917	6	min	1	-2.18	0.15		0.71	0.44	-2.21	2.23	
			max	1	-21.88	22.31		11.56	23.22	-22.74	23.89	
	3.500	6	min	1	-23.61	25.38		3.56	25.43	-23.74	25.46	
			max	1	-117.99	122.17		17.23	122.43	-118.24	122.56	
	0.000	6	min	1	-23.74	25.57		3.52	25.62	-23.86	25.64	
			max	1	-117.92	122.86		17.03	123.10	-118.16	123.22	
	0.583	6	min	1	-3.41	5.06		2.35	5.21	-3.75	5.33	
			max	1	-23.35	23.67		11.37	24.42	-24.07	25.02	
	1.167	6	min	1	-7.26	8.80		1.18	8.83	-7.28	8.85	
			max	1	-38.47	41.54		5.70	41.72	-38.66	41.81	
	1.750	6	min	1	-11.40	12.90		0.01	12.90	-11.40	12.90	
			max	1	-57.62	61.36		0.33	61.36	-57.62	61.36	
2.333	6	min	1	-3.50	1.28		0.34	1.29	-3.51	3.51		
			max	1	-39.48	41.95		5.64	42.12	-39.63	42.21	

Steel - Resistance of Cross Sections

Beam	x[m]	SNo	LC	Mat	$\sigma-x$	$\sigma+x$	$\Delta\sigma$	τ	$\sigma-I$	$\sigma-II$	$\sigma-v$	N[kN]
60004	2.917	6	min	1	-1.22	2.47		1.26	2.59	-1.49	2.66	
			max	1	-21.48	22.85		11.30	23.64	-22.19	24.25	
	3.500	6	min	1	-11.69	13.02		1.85	13.05	-11.76	13.06	
			max	1	-115.11	121.63		16.97	121.87	-115.34	121.99	
60005	0.000	6	min	1	-19.19	20.91		2.84	20.95	-19.29	20.97	
			max	1	-114.56	121.21		16.94	121.45	-115.13	121.57	
	0.583	6	min	1	-2.73	4.29		1.88	4.39	-2.99	4.48	
			max	1	-20.68	22.63		11.27	23.43	-21.50	24.05	
	1.167	6	min	1	-5.68	7.14		0.93	7.17	-5.69	7.18	
			max	1	-40.13	41.58		5.78	41.75	-40.36	41.84	
	1.750	6	min	1	-8.98	10.41		0.01	10.41	-8.98	10.41	
			max	1	-58.36	60.79		0.47	60.79	-58.37	60.79	
	2.333	6	min	1	-5.64	7.09		0.97	7.12	-5.66	7.13	
			max	1	-39.29	40.77		5.73	40.95	-39.41	41.04	
	2.917	6	min	1	-2.84	4.37		1.93	4.49	-3.12	4.59	
			max	1	-22.53	24.25		11.40	24.98	-23.23	25.57	
	3.500	6	min	1	-19.36	21.03		2.88	21.07	-19.46	21.09	
			max	1	-117.09	123.64		17.07	123.88	-117.57	124.01	
60006	0.000	6	min	1	-24.00	25.67		3.59	25.72	-24.12	25.75	
			max	1	-116.68	123.22		17.36	123.48	-117.28	123.61	
	0.583	6	min	1	-3.36	4.86		2.42	5.04	-3.73	5.18	
			max	1	-20.86	22.69		11.69	23.60	-21.79	24.28	
	1.167	6	min	1	-7.76	9.16		1.25	9.20	-7.78	9.22	
			max	1	-41.89	43.48		6.18	43.68	-42.14	43.78	
	1.750	6	min	1	-3.07	1.31		0.01	1.31	-3.07	3.07	
			max	1	-61.96	64.70		0.80	64.70	-61.97	64.70	
	2.333	6	min	1	-8.43	9.86		1.09	9.88	-8.45	9.90	
			max	1	-44.73	46.68		5.31	46.82	-44.81	46.88	
	2.917	6	min	1	-2.12	3.08		2.26	3.73	-2.43	4.04	
			max	1	-15.39	16.50		10.98	17.61	-16.44	19.35	
	3.500	6	min	1	-21.89	23.63		3.44	23.68	-22.01	23.71	
			max	1	-108.12	113.94		16.65	114.17	-108.34	114.29	
60007	0.000	6	min	1	-21.70	23.32		3.30	23.36	-21.81	23.39	
			max	1	-106.36	112.49		15.89	112.68	-106.55	112.78	
	0.583	6	min	1	-2.50	3.92		2.12	4.07	-2.85	4.19	
			max	1	-17.60	18.83		10.23	19.55	-18.31	20.11	
	1.167	6	min	1	-7.31	8.58		0.95	8.60	-7.31	8.61	
			max	1	-38.16	40.02		4.56	40.12	-38.21	40.17	
	1.750	6	min	1	-10.34	11.55		0.23	11.55	-10.34	11.55	
			max	1	-51.43	54.16		1.54	54.17	-51.46	54.18	
	2.333	6	min	1	-5.19	6.40		1.39	6.48	-5.24	6.51	
			max	1	-27.60	29.07		6.93	29.46	-27.91	29.66	
	2.917	6	min	1	-6.87	8.16		2.56	8.26	-7.09	8.33	
			max	1	-39.02	40.19		12.44	40.66	-39.46	40.98	
	3.500	6	min	1	-28.22	29.67		3.73	29.72	-28.34	29.75	
			max	1	-138.84	144.44		18.11	144.70	-139.40	144.83	
60008	0.000	6	min	1	-33.72	34.95		4.64	35.02	-33.88	35.06	
			max	1	-165.00	170.08		22.45	170.45	-165.75	170.63	
	0.586	6	min	1	-6.72	7.79		3.47	7.99	-7.15	8.19	
			max	1	-37.59	38.68		16.76	39.62	-38.48	40.50	
	1.171	6	min	1	-11.12	12.11		2.29	12.22	-11.19	12.28	
			max	1	-53.68	56.75		11.07	57.32	-54.00	57.60	
	1.757	6	min	1	-21.76	22.74		1.11	22.75	-21.77	22.76	
			max	1	-104.36	108.23		6.68	108.31	-104.42	108.35	
	2.343	6	min	1	-24.17	25.21		0.22	25.21	-24.18	25.21	
			max	1	-116.08	120.25		3.66	120.25	-116.08	120.26	
	2.929	6	min	1	-18.37	19.54		1.24	19.55	-18.37	19.56	
			max	1	-88.03	92.88		8.20	92.95	-88.06	92.98	
	3.514	6	min	1	-13.27	14.00		2.42	14.01	-13.28	14.02	

Steel - Resistance of Cross Sections

Beam	x[m]	SNo	LC	Mat	$\sigma-x$	$\sigma+x$	$\Delta\sigma$	τ	$\sigma-I$	$\sigma-II$	$\sigma-v$	N[kN]
60008	3.514	6	max	1	-63.87	66.57		13.61	66.63	-63.94	66.66	
	4.100	6	min	1	-24.41	23.50		3.59	23.51	-24.42	24.43	
			max	1	-117.94	113.49		19.81	113.81	-118.00	118.04	
60009	0.000	6	min	1	-29.69	16.18		3.54	16.26	-29.79	29.84	
			max	1	-142.43	160.65		17.35	161.09	-142.92	161.31	
	0.583	6	min	1	8.04	-9.87		1.40	0.66	-3.23	8.31	
			max	1	-43.15	61.26		11.96	61.82	-43.87	62.10	
	1.167	6	min	1	0.48	2.93		0.45	3.04	-1.55	16.73	
			max	1	-70.39	54.13		8.09	54.55	-70.45	70.48	
	1.750	6	min	1	-3.58	7.08		0.04	7.08	-3.58	20.89	
			max	1	-91.31	78.52		4.30	78.71	-91.32	91.32	
	2.333	6	min	1	-3.68	3.11		1.14	3.20	-3.83	16.88	
			max	1	-72.65	65.16		7.38	65.30	-72.68	72.70	
	2.917	6	min	1	14.24	-12.53		2.32	0.72	-1.10	10.46	
			max	1	-41.93	36.54		12.77	37.87	-42.00	42.03	
60010	3.500	6	min	1	-29.17	15.72		3.49	15.79	-29.26	29.31	
			max	1	-135.32	123.70		16.72	124.13	-135.79	136.02	
	0.000	6	min	1	-1.98	6.71		0.73	6.71	-1.98	6.71	
			max	1	-116.25	190.49		34.29	190.58	-116.31	190.62	
	0.600	6	min	1	-1.87	5.80		0.62	5.81	-1.87	6.33	
			max	1	-73.68	123.86		27.77	123.98	-73.77	124.17	
	1.200	6	min	1	-3.64	7.96		0.51	7.97	-3.65	7.98	
			max	1	-111.02	179.10		21.25	179.11	-111.09	179.12	
	1.800	6	min	1	-5.90	10.21		0.38	10.22	-5.91	10.22	
			max	1	-130.17	198.90		19.33	198.92	-130.19	198.93	
	2.400	6	min	1	-7.08	9.21		0.23	9.28	-7.08	11.37	
			max	1	-86.88	152.26		28.61	152.40	-88.07	153.80	
60011	3.000	6	min	1	-3.37	-0.93		0.24	1.22	-5.69	10.87	
			max	1	-43.33	79.43		37.89	81.61	-43.41	84.11	
	3.600	6	min	1	-6.60	11.08		0.49	11.09	-6.62	11.09	
			max	1	-141.33	208.44		30.63	209.52	-142.13	210.07	
	0.000	6	min	1	-22.42	12.24		2.94	12.32	-22.54	22.60	
			max	1	-113.26	108.54		16.62	108.79	-113.46	113.56	
	0.583	6	min	1	0.30	-4.52		1.99	0.53	-2.16	3.93	
			max	1	-25.99	15.70		10.95	15.78	-26.09	26.14	
	1.167	6	min	1	-9.90	0.43		1.04	0.78	-9.91	9.91	
			max	1	-54.26	44.29		5.29	44.43	-54.30	54.32	
	1.750	6	min	1	2.34	3.87		0.05	3.88	0.00	10.88	
			max	1	-70.52	62.08		1.37	62.08	-70.54	70.55	
60012	2.333	6	min	1	-9.11	0.72		0.87	0.89	-9.13	9.14	
			max	1	-49.46	40.63		6.76	40.85	-49.74	49.88	
	2.917	6	min	1	-2.36	-3.47		1.82	0.44	-3.24	4.64	
			max	1	-31.04	19.95		12.14	20.64	-31.63	32.12	
	3.500	6	min	1	-24.86	11.53		2.77	11.59	-24.98	25.04	
			max	1	-127.52	119.19		17.83	119.46	-127.77	127.89	
	0.000	6	min	1	-32.31	34.77		4.61	34.84	-32.47	34.88	
			max	1	-165.47	169.53		29.74	169.89	-166.40	170.07	
	0.586	6	min	1	-7.22	8.61		3.44	8.63	-7.25	8.65	
			max	1	-38.04	36.91		25.94	39.47	-44.23	48.19	
	1.171	6	min	1	-11.79	13.95		2.26	14.04	-11.85	14.09	
			max	1	-56.60	64.40		22.14	64.87	-60.52	65.12	
60012	1.757	6	min	1	-22.66	24.78		1.08	24.79	-22.66	24.80	
			max	1	-108.62	116.96		18.34	117.03	-108.90	117.07	
	2.343	6	min	1	-25.30	27.46		0.18	27.46	-25.30	27.46	
			max	1	-121.54	130.11		15.09	130.11	-122.87	130.11	
	2.929	6	min	1	-19.71	21.99		1.27	22.00	-19.72	22.01	
			max	1	-97.27	103.85		19.89	103.91	-100.06	103.95	
	3.514	6	min	1	-12.01	13.99		2.45	14.00	-12.04	14.00	
			max	1	-60.34	67.93		25.30	67.95	-62.88	67.97	

Steel - Resistance of Cross Sections

Beam	x[m]	SNo	LC	Mat	$\sigma-x$	$\sigma+x$	$\Delta\sigma$	τ	$\sigma-I$	$\sigma-II$	$\sigma-v$	N[kN]
60012	4.100	6	min	1	-21.91	22.30		3.62	22.31	-21.92	22.32	
			max	1	-110.18	110.01		22.41	110.09	-110.25	110.29	
60013	0.000	6	min	1	-22.38	26.77		3.52	26.82	-22.51	26.84	
			max	1	-132.09	128.66		17.02	128.90	-132.30	132.41	
	0.583	6	min	1	-2.10	4.96		2.34	5.39	-2.59	6.48	
			max	1	-36.98	29.62		11.35	30.15	-37.32	37.61	
	1.167	6	min	1	-5.97	10.06		1.17	10.09	-5.99	10.11	
			max	1	-47.48	46.98		5.68	47.14	-47.56	47.59	
	1.750	6	min	1	-10.06	14.12		0.00	14.12	-10.06	14.12	
			max	1	-67.13	66.66		1.37	66.66	-67.15	67.16	
	2.333	6	min	1	-5.97	10.06		1.17	10.09	-5.99	10.11	
			max	1	-49.51	47.10		6.43	47.25	-49.78	49.92	
	2.917	6	min	1	-2.11	2.87		2.34	4.45	-2.60	6.51	
			max	1	-32.92	29.40		11.82	29.93	-33.28	33.68	
	3.500	6	min	1	-22.39	26.78		3.51	26.83	-22.52	26.85	
			max	1	-126.00	128.33		16.99	128.56	-126.21	128.68	
60014	0.000	6	min	1	-9.47	9.40		1.78	9.45	-9.56	9.61	
			max	1	-123.10	123.44		16.93	123.68	-123.30	123.79	
	0.583	6	min	1	-2.56	3.57		1.90	3.60	-2.79	3.61	
			max	1	-27.50	24.78		11.33	25.47	-27.88	28.27	
	1.167	6	min	1	-6.74	7.73		0.95	7.76	-6.76	7.78	
			max	1	-40.50	42.71		7.55	42.88	-40.56	42.96	
	1.750	6	min	1	-10.76	13.13		0.02	13.13	-10.76	13.13	
			max	1	-60.42	61.99		4.04	61.99	-60.69	61.99	
	2.333	6	min	1	-6.59	8.99		1.19	9.03	-6.61	9.05	
			max	1	-43.05	42.03		9.30	42.21	-44.04	44.54	
	2.917	6	min	1	-3.26	5.77		2.36	5.89	-3.61	6.00	
			max	1	-21.52	26.10		14.69	26.76	-24.09	27.32	
	3.500	6	min	1	-23.62	26.31		3.53	26.36	-23.74	26.38	
			max	1	-115.60	125.41		20.03	125.65	-116.18	125.77	
60015	0.000	6	min	1	-15.03	13.37		0.70	13.37	-15.03	15.03	
			max	1	-150.78	146.26		31.85	147.10	-151.59	152.00	
	0.600	6	min	1	-8.13	9.49		0.55	9.49	-8.15	10.26	
			max	1	-93.49	77.75		25.33	78.97	-95.03	96.00	
	1.200	6	min	1	-8.83	6.30		0.41	6.30	-8.83	8.83	
			max	1	-150.69	133.95		18.81	135.60	-151.74	152.27	
	1.800	6	min	1	-9.41	6.71		0.28	6.71	-9.41	9.41	
			max	1	-169.07	153.03		18.22	154.18	-170.78	171.64	
	2.400	6	min	1	-12.03	9.40		0.18	9.40	-12.03	12.03	
			max	1	-121.20	105.25		27.50	107.77	-124.91	126.81	
	3.000	6	min	1	-5.13	5.85		0.18	6.34	-5.16	6.62	
			max	1	-43.47	29.54		36.78	37.37	-49.24	64.18	
	3.600	6	min	1	-12.25	9.64		0.95	9.73	-12.27	12.28	
			max	1	-191.27	173.70		30.87	174.85	-191.88	192.19	
60016	0.000	6	min	1	-5.20	9.65		1.72	9.69	-5.35	9.71	
			max	1	-131.62	131.66		17.03	131.89	-131.82	132.00	
	0.583	6	min	1	1.63	2.12		1.13	2.85	-0.51	4.75	
			max	1	-34.97	32.50		12.27	32.95	-35.29	35.54	
	1.167	6	min	1	-4.17	7.13		0.53	7.17	-4.19	8.61	
			max	1	-42.37	50.21		8.48	50.36	-42.47	50.43	
	1.750	6	min	1	-4.84	9.30		0.00	9.30	-4.84	9.30	
			max	1	-63.39	70.01		4.69	70.01	-63.72	70.01	
	2.333	6	min	1	-1.36	5.90		0.66	5.91	-1.38	5.92	
			max	1	-47.11	50.57		9.82	50.71	-48.18	50.78	
	2.917	6	min	1	-0.80	2.17		1.25	2.87	-1.59	7.06	
			max	1	-24.76	31.79		15.20	32.26	-27.33	32.71	
	3.500	6	min	1	-13.31	18.11		1.85	18.12	-13.36	18.13	
			max	1	-116.29	130.59		19.86	130.82	-116.53	130.93	
60017	0.000	6	min	1	-15.53	19.23		2.94	19.29	-15.67	19.32	

Steel - Resistance of Cross Sections

Beam	x[m]	SNo	LC	Mat	$\sigma-x$	$\sigma+x$	$\Delta\sigma$	τ	$\sigma-I$	$\sigma-II$	$\sigma-v$	N[kN]
60017	0.000	6	max	1	-125.04	127.70		17.44	127.95	-125.26	128.08	
	0.583	6	min	1	-1.13	4.61		1.99	4.90	-1.33	4.91	
			max	1	-27.19	26.57		11.92	27.31	-27.65	28.14	
	1.167	6	min	1	-6.06	9.67		1.04	9.71	-6.09	9.72	
			max	1	-43.14	47.50		8.14	47.69	-43.22	47.78	
	1.750	6	min	1	-8.72	12.38		0.10	12.38	-8.72	12.38	
			max	1	-65.34	69.32		4.35	69.32	-65.56	69.32	
	2.333	6	min	1	-4.72	8.49		0.87	8.50	-4.73	8.51	
			max	1	-50.23	51.90		8.94	52.01	-51.03	52.07	
	2.917	6	min	1	-1.14	1.41		1.82	2.85	-1.68	4.39	
			max	1	-12.20	18.95		14.33	19.10	-17.66	25.26	
	3.500	6	min	1	-19.09	23.25		2.77	23.27	-19.18	23.29	
			max	1	-102.56	114.83		19.19	115.06	-102.81	115.18	
60018	0.000	6	min	1	-21.92	20.98		3.57	21.12	-22.13	22.24	
			max	1	-153.83	136.72		20.12	137.25	-154.06	154.18	
	0.583	6	min	1	-1.85	4.37		2.39	4.60	-2.42	4.75	
			max	1	-51.56	35.21		16.34	36.17	-52.12	53.11	
	1.167	6	min	1	-7.92	6.78		1.22	6.80	-7.95	10.40	
			max	1	-36.49	45.68		12.55	45.88	-36.62	45.98	
	1.750	6	min	1	-12.02	8.25		0.07	8.25	-12.02	14.44	
			max	1	-57.12	66.24		8.76	66.25	-57.58	66.25	
	2.333	6	min	1	-7.93	6.18		0.68	6.19	-7.95	10.45	
			max	1	-46.35	47.57		11.37	47.69	-48.10	49.00	
	2.917	6	min	1	-2.35	0.56		2.29	3.37	-2.41	4.62	
			max	1	-18.63	20.41		16.76	21.20	-23.64	30.40	
	3.500	6	min	1	-21.97	24.80		3.46	24.84	-22.10	24.86	
			max	1	-107.50	118.57		17.28	118.79	-108.07	118.90	
60019	0.000	6	min	1	-20.63	24.53		3.45	24.58	-20.76	24.60	
			max	1	-112.42	117.49		16.70	117.73	-112.61	117.85	
	0.583	6	min	1	-0.23	1.20		2.28	2.85	-1.73	4.71	
			max	1	-25.19	20.04		11.04	20.96	-25.30	25.35	
	1.167	6	min	1	-7.53	11.12		1.11	11.14	-7.54	11.15	
			max	1	-46.21	50.87		6.59	51.00	-46.25	51.06	
	1.750	6	min	1	-5.59	2.73		0.03	2.73	-5.59	5.59	
			max	1	-64.20	68.93		3.91	68.93	-64.43	68.93	
	2.333	6	min	1	-3.77	8.69		0.85	8.70	-3.78	8.71	
			max	1	-44.88	47.75		9.30	47.92	-45.78	48.01	
	2.917	6	min	1	-2.10	4.23		1.80	4.90	-2.62	6.03	
			max	1	-20.32	26.17		14.68	26.89	-22.87	27.47	
	3.500	6	min	1	-9.71	6.69		1.06	6.73	-9.72	9.72	
			max	1	-114.78	126.68		21.77	126.93	-115.06	127.06	
60020	0.000	6	min	1	-21.08	24.21		3.32	24.25	-21.19	24.27	
			max	1	-112.29	115.83		15.95	116.02	-112.45	116.12	
	0.583	6	min	1	0.44	4.48		2.15	4.60	-1.81	4.70	
			max	1	-21.00	21.13		10.28	21.71	-21.31	22.21	
	1.167	6	min	1	-7.07	9.82		0.98	9.84	-7.07	9.85	
			max	1	-37.94	44.76		5.84	44.85	-38.00	44.89	
	1.750	6	min	1	-10.43	13.10		0.21	13.11	-10.43	13.11	
			max	1	-53.43	59.90		4.30	59.91	-53.73	59.91	
	2.333	6	min	1	-5.60	8.27		1.37	8.33	-5.65	8.36	
			max	1	-32.04	35.80		9.68	36.13	-32.95	36.29	
	2.917	6	min	1	-4.69	7.43		2.54	7.55	-5.00	7.65	
			max	1	-32.41	38.36		15.07	38.86	-33.81	39.32	
	3.500	6	min	1	-25.73	28.62		3.71	28.67	-25.86	28.70	
			max	1	-130.10	141.54		24.15	141.81	-130.70	141.95	
60021	0.000	6	min	1	-17.92	20.83		2.85	20.87	-18.02	20.89	
			max	1	-122.63	127.90		16.94	128.13	-122.85	128.25	
	0.583	6	min	1	-1.85	5.98		2.33	6.63	-2.37	6.72	
			max	1	-28.56	29.37		11.27	29.92	-29.02	30.39	

Steel - Resistance of Cross Sections

Beam	x[m]	SNo	LC	Mat	$\sigma-x$	$\sigma+x$	$\Delta\sigma$	τ	$\sigma-I$	$\sigma-II$	$\sigma-v$	N[kN]
60021	1.167	6	min	1	-5.63	10.21		1.15	10.24	-5.66	10.25	
			max	1	-45.47	47.16		5.60	47.31	-45.57	47.39	
	1.750	6	min	1	-9.61	14.15		0.02	14.15	-9.61	14.15	
			max	1	-64.08	66.32		0.50	66.32	-64.09	66.32	
	2.333	6	min	1	-5.41	9.98		1.19	10.01	-5.43	10.03	
			max	1	-45.40	46.25		5.89	46.41	-45.60	46.49	
	2.917	6	min	1	-2.31	5.92		2.36	6.99	-2.77	7.16	
			max	1	-28.64	31.19		11.40	31.67	-29.16	32.13	
	3.500	6	min	1	-22.70	27.57		3.53	27.62	-22.83	27.64	
			max	1	-122.76	130.63		17.07	130.86	-122.98	130.98	
60022	0.000	6	min	1	2.32	11.13		0.61	11.14	-0.06	11.14	
			max	1	-118.20	123.67		17.51	123.94	-118.80	124.07	
	0.583	6	min	1	5.42	4.10		0.41	4.27	-0.03	4.38	
			max	1	-20.64	22.34		11.84	23.31	-21.55	24.03	
	1.167	6	min	1	5.10	8.41		0.22	8.41	-0.01	8.41	
			max	1	-40.81	43.58		6.18	43.79	-40.91	43.90	
	1.750	6	min	1	4.08	9.45		0.03	9.45	0.00	9.45	
			max	1	-61.97	65.61		1.27	65.61	-61.98	65.61	
	2.333	6	min	1	4.38	9.15		0.16	9.15	-0.00	9.15	
			max	1	-45.83	48.40		5.73	48.52	-46.04	48.58	
	2.917	6	min	1	6.01	3.58		0.35	3.61	-0.02	3.90	
			max	1	-12.95	16.18		11.12	16.35	-13.14	19.28	
60023	0.000	6	min	1	-28.32	15.44		3.35	15.50	-28.41	28.45	
			max	1	-131.41	123.76		16.04	124.16	-131.84	132.06	
	0.583	6	min	1	12.07	-12.73		2.17	0.66	-1.68	9.84	
			max	1	-39.36	36.01		10.38	36.09	-39.43	39.47	
	1.167	6	min	1	-6.17	2.54		1.00	2.62	-6.25	15.78	
			max	1	-67.68	61.45		4.71	61.48	-67.70	67.71	
	1.750	6	min	1	-14.17	5.80		0.18	5.80	-14.18	19.09	
			max	1	-83.02	75.95		2.16	75.96	-83.03	83.03	
	2.333	6	min	1	0.57	0.95		1.34	1.30	-2.68	14.26	
			max	1	-58.77	52.74		7.55	52.86	-58.88	58.93	
	2.917	6	min	1	-1.01	-1.39		2.51	0.97	-5.06	12.20	
			max	1	-56.28	54.17		12.94	54.79	-56.92	57.24	
60024	0.000	6	min	1	-36.46	25.67		4.58	25.77	-36.60	36.67	
			max	1	-176.36	166.11		22.29	166.77	-177.05	177.40	
	0.586	6	min	1	-7.83	1.47		3.40	1.88	-9.28	13.50	
			max	1	-56.10	45.27		16.60	45.37	-56.18	56.23	
	1.171	6	min	1	-19.93	8.88		2.22	9.02	-19.96	19.98	
			max	1	-87.88	75.00		12.55	75.74	-88.08	88.18	
	1.757	6	min	1	-30.31	19.24		1.05	19.26	-30.32	30.32	
			max	1	-138.85	124.04		8.75	124.08	-138.89	138.91	
	2.343	6	min	1	-32.48	21.46		0.21	21.46	-32.48	32.48	
			max	1	-150.05	135.36		5.83	135.37	-150.05	150.06	
	2.929	6	min	1	-26.42	15.53		1.31	15.55	-26.42	26.42	
			max	1	-121.47	108.87		10.61	108.89	-121.49	121.49	
60025	0.000	6	min	1	-1.83	7.53		0.86	7.54	-1.84	7.54	
			max	1	-152.50	142.39		36.10	143.93	-153.94	154.67	
	0.600	6	min	1	-2.32	8.61		0.70	8.63	-2.43	8.64	
			max	1	-99.17	77.83		29.58	80.67	-102.06	103.53	
	1.200	6	min	1	-4.11	10.29		0.55	10.30	-4.16	10.31	

Steel - Resistance of Cross Sections

Beam	x[m]	SNo	LC	Mat	σ-x	σ+x	Δσ	τ	σ-I	σ-II	σ-v	N[kN]
60025	1.200	6	max	1	-159.76	137.36		23.06	139.98	-161.36	162.17	
			min	1	-4.85	10.91		0.34	10.92	-4.88	10.92	
	2.400	6	max	1	-180.08	158.24		21.54	160.16	-182.38	183.55	
			min	1	-6.39	12.47		0.29	12.47	-6.39	12.47	
	3.000	6	max	1	-133.98	112.10		30.82	115.67	-138.47	140.77	
			min	1	-2.56	4.05		0.24	8.01	-2.61	8.02	
	max	1	-64.06	44.69		40.10	52.24	-69.45	73.11			
3.600	6	min	1	-14.47	21.12		0.65	21.13	-14.48	21.13		
		max	1	-181.63	157.88		32.45	159.15	-183.14	183.91		
60026	0.000	6	min	1	-3.26	5.21		0.57	5.22	-3.27	5.23	
			max	1	-132.77	142.93		20.52	143.13	-132.99	143.24	
	0.583	6	min	1	3.62	-1.07		0.38	1.88	-0.15	1.88	
			max	1	-39.46	44.07		15.14	44.37	-41.27	44.64	
	1.167	6	min	1	-0.23	2.24		0.19	2.24	-0.26	2.24	
			max	1	-56.14	62.23		9.75	62.35	-57.00	62.41	
	1.750	6	min	1	-0.97	2.98		0.00	2.98	-0.97	2.98	
			max	1	-73.86	81.73		4.43	81.73	-74.12	81.73	
	2.333	6	min	1	-0.38	2.39		0.19	2.39	-0.40	2.40	
			max	1	-54.30	61.98		7.81	62.10	-54.36	62.16	
	2.917	6	min	1	4.11	0.44		0.39	1.56	-0.14	1.57	
			max	1	-44.12	44.59		11.60	44.88	-44.35	45.13	
	3.500	6	min	1	-2.80	4.78		0.58	4.79	-2.81	4.80	
			max	1	-139.39	143.70		17.01	143.91	-139.57	144.01	
60027	0.000	6	min	1	-18.48	22.43		3.46	22.49	-18.63	22.51	
			max	1	-133.36	119.40		16.98	119.93	-133.57	133.68	
	0.583	6	min	1	-1.52	3.57		2.29	4.39	-1.59	5.07	
			max	1	-34.68	21.79		12.48	22.99	-35.77	36.36	
	1.167	6	min	1	-9.52	10.04		1.12	10.08	-9.54	11.85	
			max	1	-42.69	56.48		8.70	56.61	-42.77	56.68	
	1.750	6	min	1	-13.22	11.10		0.04	11.10	-13.22	15.33	
			max	1	-62.06	75.44		4.91	75.44	-62.06	75.44	
	2.333	6	min	1	-8.73	10.49		1.22	10.50	-8.75	12.35	
			max	1	-47.94	55.16		9.15	55.29	-48.38	55.35	
	2.917	6	min	1	-1.94	1.98		2.39	3.82	-2.00	5.38	
			max	1	-17.01	21.90		14.54	22.03	-20.81	26.17	
	3.500	6	min	1	-20.84	24.80		3.57	24.86	-20.98	24.88	
			max	1	-106.88	118.46		19.18	118.70	-107.11	118.83	
60028	0.000	6	min	1	-23.40	26.85		3.62	26.90	-23.53	26.93	
			max	1	-115.48	127.51		19.59	127.76	-115.75	127.89	
	0.583	6	min	1	-2.59	2.76		1.98	3.49	-3.05	6.12	
			max	1	-20.61	26.30		14.21	27.05	-23.38	27.65	
	1.167	6	min	1	-6.94	10.12		1.28	10.16	-6.96	10.17	
			max	1	-46.14	47.42		8.82	47.61	-46.90	47.70	
	1.750	6	min	1	-11.55	14.71		0.10	14.71	-11.55	14.71	
			max	1	-65.60	69.31		3.43	69.31	-65.78	69.31	
	2.333	6	min	1	-7.98	11.18		1.07	11.21	-7.99	11.22	
			max	1	-47.75	51.97		6.36	52.08	-47.79	52.14	
	2.917	6	min	1	0.56	4.35		2.24	4.38	-1.70	4.40	
			max	1	-23.30	18.90		10.89	19.05	-23.41	23.46	
	3.500	6	min	1	-20.20	23.72		3.41	23.77	-20.33	23.79	
			max	1	-112.36	114.19		16.56	114.42	-112.57	114.54	
60029	0.000	6	min	1	-20.05	23.95		3.41	24.00	-20.18	24.02	
			max	1	-104.88	114.93		17.18	115.15	-105.10	115.26	
	0.583	6	min	1	-1.22	1.61		2.23	3.09	-1.63	4.64	
			max	1	-16.22	19.57		11.79	20.40	-18.30	21.74	
	1.167	6	min	1	-7.63	11.22		1.06	11.24	-7.65	11.25	
			max	1	-47.47	49.72		6.41	49.83	-47.80	49.88	
1.750	6	min	1	-9.71	12.26		0.10	12.26	-9.71	12.26		
		max	1	-60.49	65.64		2.67	65.65	-60.52	65.65		

Steel - Resistance of Cross Sections

Beam	x[m]	SNo	LC	Mat	$\sigma-x$	$\sigma+x$	$\Delta\sigma$	τ	$\sigma-I$	$\sigma-II$	$\sigma-v$	N[kN]
60029	2.333	6	min	1	-6.47	6.11		1.28	6.18	-6.50	8.35	
			max	1	-36.23	42.32		6.45	42.55	-36.36	42.67	
	2.917	6	min	1	-2.72	6.39		2.45	6.50	-3.17	6.61	
			max	1	-39.25	34.05		12.05	34.53	-39.62	39.81	
	3.500	6	min	1	-23.60	27.43		3.62	27.49	-23.72	27.51	
			max	1	-139.12	136.65		18.98	136.91	-139.35	139.46	
60030	0.000	6	min	1	-26.21	31.62		4.53	31.70	-26.40	31.74	
			max	1	-150.50	156.96		25.39	157.34	-150.89	157.54	
	0.586	6	min	1	-4.59	3.36		2.65	4.97	-4.63	8.63	
			max	1	-29.94	41.15		19.98	41.26	-31.29	41.32	
	1.171	6	min	1	-13.10	18.27		2.17	18.33	-13.15	18.37	
			max	1	-75.21	80.95		14.57	81.32	-76.42	81.51	
	1.757	6	min	1	-23.05	28.20		1.00	28.22	-23.06	28.22	
			max	1	-122.15	130.16		9.16	130.22	-122.55	130.25	
	2.343	6	min	1	-21.17	25.03		0.19	25.03	-21.17	25.03	
			max	1	-131.33	139.97		4.70	139.97	-131.48	139.97	
	2.929	6	min	1	-18.28	23.64		1.36	23.65	-18.29	23.66	
			max	1	-102.76	110.35		7.61	110.42	-102.79	110.45	
	3.514	6	min	1	-13.91	18.71		2.53	18.72	-13.92	18.72	
			max	1	-86.97	86.36		12.06	86.41	-87.01	87.03	
	4.100	6	min	1	-15.14	17.60		3.09	17.61	-15.15	17.62	
			max	1	-134.02	132.82		22.78	132.89	-134.29	134.59	
60031	0.000	6	min	1	-20.63	25.03		2.83	25.05	-20.71	25.07	
			max	1	-113.05	125.49		19.27	125.73	-113.63	125.84	
	0.583	6	min	1	-2.79	4.48		1.88	4.54	-3.18	6.00	
			max	1	-20.24	26.65		13.88	27.27	-22.92	27.79	
	1.167	6	min	1	-3.34	7.38		0.93	7.40	-3.36	7.41	
			max	1	-41.47	43.61		8.49	43.77	-42.26	43.85	
	1.750	6	min	1	-7.54	11.49		0.00	11.49	-7.54	11.49	
			max	1	-58.79	63.07		3.25	63.07	-58.97	63.07	
	2.333	6	min	1	-5.09	9.00		0.98	9.03	-5.12	9.05	
			max	1	-38.82	43.30		6.91	43.48	-38.89	43.56	
	2.917	6	min	1	-1.27	5.30		1.93	5.32	-1.33	5.33	
			max	1	-26.72	27.22		11.38	27.84	-27.13	28.37	
	3.500	6	min	1	-15.77	19.80		2.88	19.85	-15.91	19.88	
			max	1	-122.45	126.35		17.04	126.59	-122.65	126.71	
60032	0.000	6	min	1	-20.52	22.24		2.89	22.28	-20.65	22.29	
			max	1	-105.39	115.31		19.32	115.54	-105.63	115.66	
	0.583	6	min	1	-1.22	-0.30		1.94	3.90	-1.77	4.35	
			max	1	-15.18	18.16		13.93	19.20	-19.37	25.38	
	1.167	6	min	1	-6.95	6.80		0.98	6.83	-6.96	6.96	
			max	1	-51.94	51.31		8.54	51.43	-52.63	52.98	
	1.750	6	min	1	-11.54	11.30		0.07	11.31	-11.54	11.54	
			max	1	-66.46	69.05		4.11	69.05	-66.64	69.05	
	2.333	6	min	1	-7.20	9.22		0.92	9.25	-7.22	9.51	
			max	1	-43.66	47.56		7.90	47.73	-43.75	47.82	
	2.917	6	min	1	-1.25	1.13		1.87	1.85	-1.96	3.25	
			max	1	-32.68	25.52		11.69	26.27	-33.08	33.38	
	3.500	6	min	1	-2.61	4.47		0.62	4.50	-2.63	4.51	
			max	1	-131.17	126.34		17.35	126.60	-131.39	131.50	
60033	0.000	6	min	1	-19.99	23.99		2.43	24.00	-20.13	24.00	
			max	1	-128.44	120.15		19.08	120.40	-128.70	128.84	
	0.583	6	min	1	-2.20	5.59		1.47	5.67	-2.25	5.68	
			max	1	-32.08	20.60		13.69	22.06	-33.54	34.48	
	1.167	6	min	1	-8.64	10.30		0.52	10.44	-8.65	12.37	
			max	1	-39.35	53.22		8.31	53.36	-39.98	53.43	
	1.750	6	min	1	-12.67	10.06		0.02	10.10	-12.67	14.72	
			max	1	-60.43	73.40		2.92	73.40	-60.55	73.40	
	2.333	6	min	1	-8.52	12.20		1.20	12.23	-8.54	12.24	
			max	1	-8.52	12.20		1.20	12.23	-8.54	12.24	

Steel - Resistance of Cross Sections

Beam	x[m]	SNo	LC	Mat	$\sigma-x$	$\sigma+x$	$\Delta\sigma$	τ	$\sigma-I$	$\sigma-II$	$\sigma-v$	N[kN]
60033	2.333	6	max	1	-44.31	54.35		5.59	54.48	-44.34	54.55	
	2.917	6	min	1	0.69	3.79		2.37	5.03	-1.70	5.04	
			max	1	-24.59	20.70		11.25	20.84	-24.69	24.74	
	3.500	6	min	1	-20.38	24.34		3.54	24.39	-20.52	24.42	
			max	1	-115.69	116.78		16.92	117.03	-115.86	117.15	
60034	0.000	6	min	1	-20.72	23.80		3.43	23.85	-20.85	23.88	
			max	1	-108.55	114.56		16.41	114.78	-108.75	114.90	
	0.583	6	min	1	-1.76	4.32		2.26	4.35	-1.83	4.36	
			max	1	-17.78	18.31		10.74	19.23	-18.55	19.90	
	1.167	6	min	1	-8.20	10.97		1.09	10.99	-8.22	11.00	
			max	1	-44.24	48.73		5.07	48.84	-44.30	48.90	
	1.750	6	min	1	-11.93	14.64		0.08	14.64	-11.93	14.64	
			max	1	-59.43	65.52		1.14	65.53	-59.44	65.53	
	2.333	6	min	1	-7.47	10.21		1.25	10.24	-7.49	10.26	
			max	1	-37.33	43.08		6.53	43.30	-37.64	43.41	
	2.917	6	min	1	-2.34	5.18		2.43	5.35	-2.83	5.48	
			max	1	-31.14	29.27		11.93	29.92	-31.82	32.39	
	3.500	6	min	1	-23.01	26.02		3.60	26.07	-23.14	26.10	
			max	1	-128.54	130.99		17.60	131.25	-128.79	131.38	
60035	0.000	6	min	1	-23.34	26.74		3.61	26.80	-23.47	26.82	
			max	1	-119.74	126.88		17.42	127.13	-119.99	127.26	
	0.583	6	min	1	-2.56	4.18		2.44	4.88	-3.02	6.05	
			max	1	-23.67	25.86		11.75	26.63	-24.41	27.23	
	1.167	6	min	1	-6.97	10.11		1.27	10.15	-7.00	10.17	
			max	1	-44.75	47.37		6.08	47.55	-44.88	47.65	
	1.750	6	min	1	-11.55	14.67		0.10	14.67	-11.56	14.67	
			max	1	-65.43	69.07		0.78	69.07	-65.43	69.07	
	2.333	6	min	1	-7.95	11.11		1.07	11.13	-7.96	11.14	
			max	1	-48.78	51.53		5.41	51.65	-48.94	51.71	
	2.917	6	min	1	-1.32	4.13		2.24	4.31	-1.72	4.33	
			max	1	-16.59	18.54		10.92	18.78	-17.09	20.25	
	3.500	6	min	1	-20.34	23.82		3.42	23.87	-20.47	23.89	
			max	1	-108.00	114.70		16.58	114.93	-108.22	115.05	
60036	0.000	6	min	1	-11.29	13.58		1.78	13.60	-11.35	13.61	
			max	1	-119.70	126.63		16.99	126.86	-119.93	126.98	
	0.583	6	min	1	-1.09	3.29		1.18	3.34	-1.33	3.39	
			max	1	-25.51	27.73		11.32	28.32	-26.08	28.83	
	1.167	6	min	1	-2.85	4.99		0.59	5.01	-2.86	5.02	
			max	1	-41.76	44.50		5.65	44.66	-41.88	44.75	
	1.750	6	min	1	-2.84	1.57		0.01	1.57	-2.84	2.84	
			max	1	-60.51	64.03		0.32	64.03	-60.51	64.03	
	2.333	6	min	1	-2.63	4.78		0.60	4.80	-2.64	4.81	
			max	1	-41.96	44.32		5.70	44.49	-42.16	44.57	
	2.917	6	min	1	-1.51	3.72		1.20	3.76	-1.70	3.80	
			max	1	-25.10	28.09		11.35	28.66	-25.84	29.17	
	3.500	6	min	1	-11.92	14.23		1.79	14.26	-11.98	14.27	
			max	1	-119.09	127.16		17.02	127.39	-119.31	127.51	
60037	0.000	6	min	1	-15.58	19.45		2.77	19.49	-15.69	19.51	
			max	1	-123.68	126.81		16.98	127.04	-123.91	127.16	
	0.583	6	min	1	-0.86	4.31		1.81	4.33	-1.17	4.34	
			max	1	-29.00	27.95		11.31	28.53	-29.43	29.84	
	1.167	6	min	1	-6.15	8.25		0.86	8.30	-6.18	9.89	
			max	1	-40.11	45.83		5.65	45.99	-40.24	46.07	
	1.750	6	min	1	-9.13	12.69		0.01	12.69	-9.13	12.69	
			max	1	-59.40	65.32		0.54	65.32	-59.41	65.32	
	2.333	6	min	1	-5.34	8.92		1.05	8.95	-5.36	8.97	
			max	1	-41.41	45.58		5.69	45.74	-41.61	45.83	
	2.917	6	min	1	-1.45	4.51		2.00	5.12	-1.93	5.30	
			max	1	-26.48	28.43		11.36	29.00	-27.16	29.50	

Steel - Resistance of Cross Sections

Beam	x[m]	SNo	LC	Mat	$\sigma-x$	$\sigma+x$	$\Delta\sigma$	τ	$\sigma-I$	$\sigma-II$	$\sigma-v$	N[kN]
60037	3.500	6	min	1	-18.41	22.21		2.95	22.25	-18.52	22.27	
			max	1	-119.92	127.54		17.02	127.77	-120.14	127.89	
60038	0.000	6	min	1	-20.37	24.18		3.44	24.23	-20.50	24.25	
			max	1	-110.25	116.14		16.65	116.38	-110.47	116.50	
	0.583	6	min	1	-1.09	3.91		2.27	4.41	-1.69	4.46	
			max	1	-18.24	18.88		10.99	19.86	-19.12	20.74	
	1.167	6	min	1	-7.82	11.32		1.10	11.34	-7.84	11.35	
			max	1	-47.29	51.89		5.32	52.01	-47.40	52.07	
	1.750	6	min	1	-11.55	14.99		0.07	14.99	-11.55	14.99	
			max	1	-63.74	69.75		0.54	69.75	-63.74	69.75	
	2.333	6	min	1	-7.08	10.56		1.25	10.59	-7.11	10.61	
			max	1	-42.88	48.37		6.02	48.54	-43.07	48.63	
	2.917	6	min	1	-1.83	4.18		1.88	4.73	-1.87	4.74	
			max	1	-26.78	25.76		11.68	26.51	-27.42	27.95	
60039	3.500	6	min	1	-8.21	6.58		1.08	6.62	-8.22	8.23	
			max	1	-123.01	126.46		17.35	126.71	-123.25	126.84	
	0.000	6	min	1	-2.21	4.70		0.73	4.70	-2.21	4.70	
			max	1	-149.42	153.21		36.01	154.60	-150.84	155.29	
	0.600	6	min	1	-2.67	4.90		0.62	4.90	-2.67	4.91	
			max	1	-95.04	87.58		29.49	90.01	-97.96	99.44	
	1.200	6	min	1	-4.98	7.13		0.51	7.14	-4.99	7.15	
			max	1	-153.31	144.55		22.97	146.97	-154.91	155.71	
	1.800	6	min	1	-7.03	9.15		0.31	9.16	-7.04	9.17	
			max	1	-174.92	166.77		21.06	168.54	-177.22	178.38	
	2.400	6	min	1	-7.98	10.06		0.26	10.07	-7.98	10.07	
			max	1	-130.48	122.34		30.34	125.30	-134.97	137.27	
60040	3.000	6	min	1	-5.51	7.25		0.26	7.27	-5.53	7.28	
			max	1	-54.36	48.35		39.62	56.42	-61.81	68.73	
	3.600	6	min	1	-8.77	10.93		0.39	10.93	-8.78	10.93	
			max	1	-167.39	157.44		30.11	158.51	-168.37	168.87	
	0.000	6	min	1	-14.58	15.88		2.50	15.89	-14.59	15.90	
			max	1	-127.73	116.73		17.00	117.29	-127.98	128.10	
	0.583	6	min	1	-2.37	4.13		1.54	4.84	-2.42	5.22	
			max	1	-30.67	20.50		11.38	21.83	-31.15	31.51	
	1.167	6	min	1	-9.56	11.11		0.59	11.21	-9.57	12.60	
			max	1	-42.96	54.19		5.99	54.33	-43.03	54.40	
	1.750	6	min	1	-13.41	11.59		0.01	11.60	-13.41	14.63	
			max	1	-62.60	73.67		1.86	73.67	-62.60	73.67	
60041	2.333	6	min	1	-9.08	12.08		1.21	12.11	-9.10	12.12	
			max	1	-44.91	53.91		6.03	54.05	-45.18	54.12	
	2.917	6	min	1	-2.08	3.52		2.39	3.60	-2.14	4.89	
			max	1	-18.58	19.97		11.41	20.11	-20.01	20.95	
	3.500	6	min	1	-20.85	24.14		3.56	24.19	-20.99	24.22	
			max	1	-109.69	116.01		17.00	116.27	-109.90	116.40	
	0.000	6	min	1	-27.63	29.91		4.49	29.99	-27.80	30.03	
			max	1	-147.65	150.27		21.95	150.66	-148.10	150.86	
	0.586	6	min	1	-8.00	9.39		3.32	9.41	-8.03	9.42	
			max	1	-34.99	39.67		16.26	39.78	-35.12	39.84	
	1.171	6	min	1	-14.96	16.96		2.14	17.03	-15.00	17.07	
			max	1	-68.98	76.36		11.37	76.73	-69.21	76.92	
60041	1.757	6	min	1	-24.97	26.95		0.96	26.96	-24.98	26.97	
			max	1	-118.10	125.70		7.57	125.75	-118.14	125.78	
	2.343	6	min	1	-26.76	28.79		0.21	28.79	-26.76	28.79	
			max	1	-127.77	135.63		4.66	135.63	-127.77	135.63	
	2.929	6	min	1	-20.33	22.48		1.39	22.50	-20.34	22.51	
			max	1	-99.73	106.14		9.57	106.21	-100.11	106.25	
	3.514	6	min	1	-14.47	16.15		2.56	16.16	-14.48	16.16	
			max	1	-72.39	76.72		14.98	76.78	-72.82	76.80	
	4.100	6	min	1	-25.22	25.23		3.74	25.25	-25.24	25.26	
			max	1	-25.22	25.23		3.74	25.25	-25.24	25.26	

Steel - Resistance of Cross Sections

Beam	x[m]	SNo	LC	Mat	$\sigma-x$	$\sigma+x$	$\Delta\sigma$	τ	$\sigma-I$	$\sigma-II$	$\sigma-v$	N[kN]
60041	4.100	6	max	1	-123.36	121.55		23.66	121.62	-123.43	123.47	
60042	0.000	6	min	1	-9.88	17.16		0.66	17.16	-9.88	17.16	
			max	1	-161.44	150.09		34.74	151.09	-162.27	162.83	
	0.600	6	min	1	-6.65	13.42		0.50	13.42	-6.65	13.43	
			max	1	-104.33	81.63		28.21	83.36	-106.21	107.38	
	1.200	6	min	1	-4.34	10.81		0.35	10.82	-4.34	10.82	
			max	1	-160.63	136.38		21.69	138.62	-161.94	162.60	
	1.800	6	min	1	-5.00	11.33		0.22	11.33	-5.00	11.33	
			max	1	-183.57	159.98		19.88	161.56	-185.52	186.50	
	2.400	6	min	1	-7.15	13.55		0.13	13.55	-7.15	13.55	
			max	1	-139.99	116.43		29.16	119.12	-143.81	145.76	
	3.000	6	min	1	-4.48	10.22		0.16	10.24	-4.51	10.24	
			max	1	-58.92	40.14		38.44	46.03	-65.23	68.60	
	3.600	6	min	1	-7.00	13.24		0.86	13.29	-7.02	13.31	
			max	1	-172.85	147.55		30.01	148.57	-173.48	173.79	
60043	0.000	6	min	1	-22.33	12.63		2.92	12.70	-22.46	22.52	
			max	1	-112.35	107.60		17.06	107.86	-112.57	112.67	
	0.583	6	min	1	0.36	-7.62		1.96	0.54	-2.21	3.95	
			max	1	-21.10	15.00		11.67	15.17	-22.50	23.45	
	1.167	6	min	1	-9.97	1.07		1.01	1.26	-9.98	9.99	
			max	1	-52.53	44.14		6.28	44.28	-52.63	52.68	
	1.750	6	min	1	1.88	4.67		0.02	4.67	0.00	10.54	
			max	1	-68.11	61.67		1.87	61.67	-68.11	68.11	
	2.333	6	min	1	-9.05	0.31		0.89	1.07	-9.06	9.07	
			max	1	-46.38	39.96		6.01	40.17	-46.56	46.65	
	2.917	6	min	1	-2.63	-4.15		1.85	0.47	-3.43	4.82	
			max	1	-33.21	20.06		11.68	20.60	-33.63	33.84	
	3.500	6	min	1	-24.10	10.82		2.80	10.90	-24.17	24.21	
			max	1	-130.26	120.02		17.35	120.29	-130.49	130.60	
60044	0.000	6	min	1	-26.08	31.86		4.46	31.93	-26.26	31.97	
			max	1	-158.80	157.78		25.88	158.14	-160.19	160.89	
	0.586	6	min	1	-7.22	12.02		3.28	12.04	-7.25	12.05	
			max	1	-48.31	49.43		22.08	49.52	-49.55	50.30	
	1.171	6	min	1	-13.16	18.64		2.11	18.70	-13.20	18.72	
			max	1	-72.68	82.50		18.28	82.83	-74.13	83.00	
	1.757	6	min	1	-23.24	28.68		0.93	28.69	-23.25	28.69	
			max	1	-122.00	132.10		14.48	132.15	-122.53	132.17	
	2.343	6	min	1	-25.10	30.58		0.25	30.58	-25.11	30.58	
			max	1	-133.61	142.29		11.40	142.29	-134.45	142.29	
	2.929	6	min	1	-18.74	24.32		1.42	24.34	-18.75	24.35	
			max	1	-107.35	113.06		16.54	113.14	-108.96	113.17	
	3.514	6	min	1	-11.59	16.77		2.60	16.78	-11.62	16.78	
			max	1	-70.48	78.88		21.95	78.91	-72.43	78.92	
60045	4.100	6	min	1	-21.66	25.21		3.78	25.23	-21.68	25.23	
			max	1	-110.00	121.41		23.23	121.48	-110.19	121.52	
	0.000	6	min	1	-20.71	24.50		3.44	24.55	-20.84	24.57	
			max	1	-116.54	117.14		16.43	117.35	-116.71	117.46	
	0.583	6	min	1	-0.03	4.28		2.27	4.91	-1.72	4.92	
			max	1	-24.84	20.33		10.76	21.11	-24.94	24.99	
	1.167	6	min	1	-7.82	11.29		1.10	11.31	-7.84	11.32	
			max	1	-44.46	49.98		5.82	50.09	-44.49	50.14	
	1.750	6	min	1	-10.20	12.61		0.07	12.61	-10.20	12.61	
			max	1	-61.63	67.32		3.51	67.32	-61.64	67.32	
	2.333	6	min	1	-7.41	10.83		1.25	10.87	-7.43	10.89	
			max	1	-41.56	45.41		8.89	45.63	-41.92	45.73	
	2.917	6	min	1	-1.56	5.08		2.42	5.27	-2.20	5.40	
			max	1	-29.42	29.03		14.28	29.74	-31.39	32.59	
	3.500	6	min	1	-22.07	25.76		3.59	25.81	-22.21	25.84	
			max	1	-125.05	130.19		22.82	130.45	-125.32	130.58	

Steel - Resistance of Cross Sections

Beam	x[m]	SNo	LC	Mat	$\sigma-x$	$\sigma+x$	$\Delta\sigma$	τ	$\sigma-I$	$\sigma-II$	$\sigma-v$	N[kN]
60046	0.000	6	min	1	-16.14	18.91		2.95	18.97	-16.28	18.99	
			max	1	-124.90	127.15		17.42	127.40	-125.12	127.53	
	0.583	6	min	1	-1.71	4.52		1.99	4.54	-1.75	4.55	
			max	1	-27.07	26.01		11.82	26.76	-28.01	28.64	
	1.167	6	min	1	-6.41	9.09		1.04	9.13	-6.45	9.15	
			max	1	-42.69	47.00		8.03	47.19	-42.82	47.28	
	1.750	6	min	1	-9.09	11.81		0.10	11.81	-9.09	11.82	
			max	1	-64.96	68.82		4.25	68.83	-65.04	68.83	
	2.333	6	min	1	-5.11	7.94		0.87	7.95	-5.12	7.96	
			max	1	-49.97	51.41		8.89	51.53	-50.44	51.59	
	2.917	6	min	1	-1.20	1.19		1.82	3.27	-1.75	4.27	
			max	1	-12.76	17.76		14.28	18.45	-17.90	25.20	
	3.500	6	min	1	-19.61	22.83		2.77	22.85	-19.69	22.87	
			max	1	-103.52	114.20		19.35	114.44	-103.76	114.56	
60047	0.000	6	min	1	-15.31	18.92		2.86	18.97	-15.44	19.00	
			max	1	-122.92	125.52		16.99	125.75	-123.13	125.87	
	0.583	6	min	1	-1.52	5.18		1.91	5.20	-1.57	5.21	
			max	1	-26.98	26.53		11.32	27.15	-27.66	28.21	
	1.167	6	min	1	-5.51	9.01		0.95	9.04	-5.53	9.05	
			max	1	-37.88	43.01		7.49	43.18	-38.03	43.26	
	1.750	6	min	1	-10.58	13.18		0.01	13.18	-10.58	13.18	
			max	1	-58.26	62.62		3.89	62.62	-58.26	62.62	
	2.333	6	min	1	-6.46	9.09		1.18	9.13	-6.48	9.15	
			max	1	-41.34	43.00		9.12	43.17	-41.82	43.26	
	2.917	6	min	1	-3.10	5.85		2.35	5.97	-3.47	6.07	
			max	1	-20.25	26.52		14.51	27.16	-23.37	27.70	
	3.500	6	min	1	-23.42	26.34		3.53	26.39	-23.54	26.41	
			max	1	-113.96	125.50		19.99	125.74	-114.54	125.86	
60048	0.000	6	min	1	-3.08	10.90		1.71	10.94	-3.32	10.95	
			max	1	-146.26	146.99		16.98	147.19	-146.44	147.29	
	0.583	6	min	1	7.84	-1.83		1.11	1.98	-0.31	6.08	
			max	1	-49.74	48.07		11.98	48.34	-50.17	50.55	
	1.167	6	min	1	-0.78	5.22		1.16	5.36	-0.93	15.46	
			max	1	-55.37	65.89		8.20	66.00	-55.49	66.05	
	1.750	6	min	1	-4.82	9.88		0.01	9.88	-4.82	17.09	
			max	1	-76.35	85.44		4.41	85.44	-76.35	85.44	
	2.333	6	min	1	-0.72	8.15		1.18	8.25	-0.90	15.40	
			max	1	-60.03	65.75		9.56	65.86	-60.30	65.92	
	2.917	6	min	1	6.82	-6.39		2.35	2.53	-0.73	11.66	
			max	1	-40.53	48.33		14.94	48.60	-42.33	48.81	
	3.500	6	min	1	-17.14	32.08		3.52	32.12	-17.31	32.14	
			max	1	-132.74	147.38		19.49	147.58	-132.95	147.68	
60049	0.000	6	min	1	-20.58	23.95		3.44	24.00	-20.71	24.02	
			max	1	-117.64	115.37		16.66	115.60	-117.83	117.92	
	0.583	6	min	1	-0.15	2.14		2.27	4.07	-1.78	4.34	
			max	1	-25.75	18.14		10.99	19.18	-25.85	25.90	
	1.167	6	min	1	-8.04	11.10		1.10	11.12	-8.05	11.14	
			max	1	-46.81	51.20		6.36	51.32	-46.86	51.38	
	1.750	6	min	1	-11.75	14.77		0.07	14.77	-11.75	14.77	
			max	1	-64.96	69.02		3.53	69.02	-64.97	69.02	
	2.333	6	min	1	-7.28	7.60		0.91	7.62	-7.30	7.63	
			max	1	-45.87	47.60		8.92	47.78	-46.24	47.87	
	2.917	6	min	1	-2.23	4.86		1.87	4.92	-2.73	5.66	
			max	1	-25.59	25.17		14.31	25.95	-27.92	29.32	
	3.500	6	min	1	-7.33	8.73		1.08	8.76	-7.35	8.77	
			max	1	-120.35	125.91		20.93	126.17	-120.61	126.30	
60050	0.000	6	min	1	-22.02	12.33		2.46	12.35	-22.02	22.03	
			max	1	-135.02	147.32		17.13	147.79	-135.52	148.02	
	0.583	6	min	1	7.77	-11.18		1.51	0.78	-1.46	9.54	

Steel - Resistance of Cross Sections

Beam	x[m]	SNo	LC	Mat	$\sigma-x$	$\sigma+x$	$\Delta\sigma$	τ	$\sigma-I$	$\sigma-II$	$\sigma-v$	N[kN]
60050	0.583	6	max	1	-36.64	50.52		11.60	51.15	-37.45	51.48	
	1.167	6	min	1	-3.58	4.38		0.56	4.45	-3.84	16.82	
			max	1	-70.82	54.05		6.21	54.15	-70.87	70.90	
	1.750	6	min	1	-10.62	8.30		0.02	8.30	-10.63	20.76	
			max	1	-90.87	76.21		0.83	76.21	-90.87	90.87	
	2.333	6	min	1	-4.87	4.10		1.18	4.18	-4.99	16.54	
			max	1	-71.33	60.83		5.54	60.85	-71.37	71.39	
	2.917	6	min	1	9.52	-9.73		2.35	0.80	-1.93	9.82	
			max	1	-39.62	36.82		11.20	37.40	-39.69	39.72	
	3.500	6	min	1	-28.62	16.49		3.53	16.57	-28.72	28.77	
			max	1	-133.31	126.81		16.87	127.10	-133.80	134.04	
60051	0.000	6	min	1	-0.51	5.02		0.70	5.02	-0.51	5.02	
			max	1	-116.05	187.47		34.52	187.57	-116.11	187.61	
	0.600	6	min	1	-1.41	5.70		0.59	5.71	-1.41	5.71	
			max	1	-72.64	121.25		28.00	121.38	-72.73	121.78	
	1.200	6	min	1	-4.12	8.37		0.49	8.39	-4.13	8.39	
			max	1	-114.08	177.37		21.48	177.38	-114.16	177.39	
	1.800	6	min	1	-5.86	10.08		0.32	10.09	-5.87	10.10	
			max	1	-135.55	199.46		18.64	199.47	-135.57	199.48	
	2.400	6	min	1	-6.51	10.68		0.27	10.69	-6.51	10.70	
			max	1	-91.18	155.11		27.92	155.23	-94.25	155.48	
	3.000	6	min	1	-5.06	0.71		0.27	1.20	-6.76	10.75	
			max	1	-42.96	81.07		37.20	85.12	-43.02	87.45	
60052	0.000	6	min	1	-22.85	25.91		3.51	25.96	-22.97	25.98	
			max	1	-127.56	125.36		17.16	125.60	-127.78	127.89	
	0.583	6	min	1	-1.26	4.69		2.34	5.16	-2.58	5.72	
			max	1	-32.98	26.44		11.77	27.09	-33.65	34.20	
	1.167	6	min	1	-6.77	9.54		1.17	9.57	-6.79	9.59	
			max	1	-44.60	44.86		6.38	45.03	-44.76	45.11	
	1.750	6	min	1	1.77	8.99		0.00	8.99	0.00	8.99	
			max	1	-63.76	64.42		1.00	64.42	-63.76	64.42	
	2.333	6	min	1	-6.71	9.48		1.18	9.51	-6.73	9.53	
			max	1	-45.62	44.73		5.67	44.90	-45.75	45.82	
	2.917	6	min	1	-1.35	4.94		2.35	5.73	-2.64	5.84	
			max	1	-31.01	26.72		11.34	27.35	-31.37	31.55	
60053	0.000	6	min	1	-23.15	26.54		3.50	26.58	-23.27	26.61	
			max	1	-120.76	126.78		16.96	127.01	-120.98	127.12	
	0.583	6	min	1	-0.69	6.04		2.33	6.14	-1.87	6.24	
			max	1	-26.58	27.61		11.29	28.16	-27.01	28.66	
	1.167	6	min	1	-6.27	9.35		1.16	9.38	-6.29	9.39	
			max	1	-42.24	43.76		5.63	43.92	-42.39	44.00	
	1.750	6	min	1	-10.39	13.43		0.02	13.43	-10.39	13.43	
			max	1	-60.98	63.54		0.57	63.54	-60.98	63.54	
	2.333	6	min	1	-6.33	9.39		1.19	9.43	-6.35	9.44	
			max	1	-42.42	44.08		5.95	44.25	-42.58	44.34	
	2.917	6	min	1	-1.56	5.92		2.36	6.05	-2.81	6.16	
			max	1	-26.15	26.86		11.38	27.53	-26.93	28.07	
60054	0.000	6	min	1	-23.02	26.36		3.53	26.41	-23.14	26.43	
			max	1	-120.14	125.66		17.04	125.90	-120.37	126.02	
	0.583	6	min	1	2.29	10.23		0.61	10.23	-0.06	10.24	
			max	1	-119.99	124.35		17.45	124.61	-120.58	124.75	
	1.167	6	min	1	5.37	4.92		0.42	5.09	-0.03	5.22	
			max	1	-20.81	22.76		11.78	23.63	-21.44	24.31	
	1.750	6	min	1	4.43	8.13		0.23	8.13	-0.01	8.13	
			max	1	-39.86	42.24		6.11	42.45	-40.06	42.55	

Steel - Resistance of Cross Sections

Beam	x[m]	SNo	LC	Mat	$\sigma-x$	$\sigma+x$	$\Delta\sigma$	τ	$\sigma-I$	$\sigma-II$	$\sigma-v$	N[kN]
60054	1.750	6	min	1	3.52	9.05		0.04	9.05	0.00	9.05	
			max	1	-61.65	64.50		1.25	64.50	-61.65	64.50	
	2.333	6	min	1	3.93	8.63		0.16	8.63	-0.00	8.63	
			max	1	-44.50	47.52		5.82	47.65	-44.62	47.71	
	2.917	6	min	1	5.38	2.69		0.35	2.77	-0.02	3.90	
			max	1	-12.49	13.91		11.21	14.14	-13.70	19.43	
60055	3.500	6	min	1	3.78	8.74		0.54	8.74	-0.05	8.75	
			max	1	-104.16	108.69		16.56	108.94	-104.75	109.06	
	0.000	6	min	1	-28.06	16.59		3.40	16.66	-28.15	28.19	
			max	1	-130.73	122.60		16.25	122.96	-131.17	131.40	
	0.583	6	min	1	9.73	-9.23		2.23	0.77	-1.96	9.26	
			max	1	-37.16	33.29		10.59	33.79	-37.24	37.27	
	1.167	6	min	1	-7.94	3.44		1.05	3.50	-8.03	15.25	
			max	1	-65.48	59.13		4.92	59.15	-65.51	65.52	
	1.750	6	min	1	-15.74	7.02		0.12	7.02	-15.74	18.87	
			max	1	-82.14	74.07		1.40	74.08	-82.14	82.15	
	2.333	6	min	1	-2.17	2.48		1.29	2.64	-4.05	14.34	
			max	1	-59.21	51.38		6.79	51.48	-59.30	59.34	
	2.917	6	min	1	-1.47	-1.86		2.46	0.98	-5.12	10.38	
			max	1	-48.90	48.98		12.18	49.76	-49.61	50.15	
	3.500	6	min	1	-30.92	19.34		3.63	19.41	-31.02	31.08	
			max	1	-150.26	146.36		17.75	146.77	-150.75	151.00	
60056	0.000	6	min	1	-33.88	24.08		4.47	24.18	-34.02	34.09	
			max	1	-166.32	157.57		21.86	158.24	-167.01	167.36	
	0.586	6	min	1	-7.31	0.19		0.67	0.46	-7.32	7.33	
			max	1	-55.95	44.69		16.17	44.69	-56.02	56.06	
	1.171	6	min	1	-20.63	10.56		2.11	10.67	-20.66	20.67	
			max	1	-90.71	77.58		10.48	77.79	-90.89	90.98	
	1.757	6	min	1	-30.57	20.48		0.94	20.49	-30.57	30.58	
			max	1	-139.95	125.16		5.75	125.20	-139.98	140.00	
	2.343	6	min	1	-32.28	22.25		0.24	22.25	-32.28	32.28	
			max	1	-149.41	134.93		3.03	134.93	-149.42	149.42	
	2.929	6	min	1	-25.78	15.87		1.42	15.89	-25.78	25.78	
			max	1	-119.10	106.88		8.06	106.90	-119.12	119.12	
	3.514	6	min	1	-20.33	9.92		2.59	9.94	-20.34	20.34	
			max	1	-93.57	83.68		13.47	83.73	-93.62	93.65	
	4.100	6	min	1	-31.18	19.10		3.77	19.12	-31.19	31.20	
			max	1	-146.87	135.08		22.72	135.14	-146.93	146.96	
60057	0.000	6	min	1	-23.86	26.30		3.60	26.36	-23.98	26.38	
			max	1	-116.02	125.49		19.76	125.74	-116.62	125.87	
	0.583	6	min	1	-3.12	3.11		1.97	3.55	-3.51	5.67	
			max	1	-20.73	24.56		14.37	25.36	-23.57	25.99	
	1.167	6	min	1	-7.33	9.50		1.26	9.54	-7.36	9.56	
			max	1	-44.11	44.91		8.98	45.10	-44.30	45.20	
	1.750	6	min	1	-11.87	14.02		0.09	14.02	-11.87	14.02	
			max	1	-63.06	66.52		3.60	66.52	-63.06	66.52	
	2.333	6	min	1	-8.22	10.41		1.08	10.44	-8.24	10.45	
			max	1	-44.71	48.89		6.65	49.01	-44.83	49.08	
	2.917	6	min	1	-0.62	3.61		2.26	3.83	-2.01	4.14	
			max	1	-21.31	16.77		10.95	17.88	-21.43	21.50	
	3.500	6	min	1	-21.13	23.63		3.43	23.68	-21.25	23.70	
			max	1	-112.84	113.81		16.62	114.05	-113.05	114.17	
60058	0.000	6	min	1	-22.84	23.15		2.84	23.18	-22.91	23.20	
			max	1	-119.51	118.62		19.54	118.87	-120.05	120.33	
	0.583	6	min	1	-4.04	4.04		1.89	4.24	-4.14	4.83	
			max	1	-21.52	19.73		14.15	21.99	-22.80	24.60	
	1.167	6	min	1	-5.37	5.32		0.93	5.34	-5.38	5.38	
			max	1	-39.56	39.74		8.76	39.83	-39.64	39.87	
	1.750	6	min	1	-9.65	9.50		0.00	9.50	-9.65	9.65	
			max	1	-9.65	9.50		0.00	9.50	-9.65	9.65	
			min	1	-9.65	9.50		0.00	9.50	-9.65	9.65	
			max	1	-9.65	9.50		0.00	9.50	-9.65	9.65	

Steel - Resistance of Cross Sections

Beam	x[m]	SNo	LC	Mat	$\sigma-x$	$\sigma+x$	$\Delta\sigma$	τ	$\sigma-I$	$\sigma-II$	$\sigma-v$	N[kN]
60058	1.750	6	max	1	-59.26	56.87		3.53	56.87	-59.26	59.26	
	2.333	6	min	1	-7.27	7.08		0.97	7.13	-7.29	7.30	
			max	1	-39.37	37.02		7.19	37.22	-39.46	39.50	
	2.917	6	min	1	-3.28	3.23		1.92	3.26	-3.30	3.33	
			max	1	-22.46	24.33		11.37	24.93	-23.58	25.50	
	3.500	6	min	1	-17.54	17.47		2.88	17.52	-17.65	17.71	
			max	1	-120.14	119.20		17.04	119.45	-120.70	120.98	
60059	0.000	6	min	1	-21.85	26.96		3.51	27.01	-21.98	27.03	
			max	1	-117.67	127.87		20.56	128.10	-117.92	128.22	
	0.583	6	min	1	-1.60	6.53		2.34	6.63	-2.18	6.72	
			max	1	-24.60	28.96		15.17	29.52	-27.58	30.01	
	1.167	6	min	1	-5.72	10.54		1.17	10.57	-5.74	10.58	
			max	1	-41.66	47.45		9.78	47.60	-41.84	47.68	
	1.750	6	min	1	-9.78	14.56		0.00	14.56	-9.78	14.56	
			max	1	-59.13	66.99		4.49	66.99	-59.13	66.99	
	2.333	6	min	1	-4.77	9.93		1.03	9.94	-4.81	10.01	
			max	1	-39.30	47.30		7.90	47.46	-39.45	47.54	
	2.917	6	min	1	0.09	4.42		1.27	4.84	-0.71	5.91	
			max	1	-29.02	29.26		11.69	29.80	-30.17	30.76	
60060	0.000	6	min	1	-21.46	25.88		2.41	25.89	-21.60	25.89	
			max	1	-140.59	128.75		19.17	128.99	-140.84	140.97	
	0.583	6	min	1	-1.22	5.60		1.46	5.72	-1.76	5.83	
			max	1	-43.07	28.12		13.79	28.71	-43.97	44.68	
	1.167	6	min	1	-6.93	8.73		0.50	8.95	-6.95	11.51	
			max	1	-36.39	50.08		8.40	50.24	-36.70	50.32	
	1.750	6	min	1	-11.27	8.31		0.02	8.31	-11.27	15.76	
			max	1	-58.54	71.34		3.01	71.34	-58.55	71.34	
	2.333	6	min	1	-7.43	10.20		1.15	10.21	-7.45	11.98	
			max	1	-43.38	53.35		5.42	53.48	-43.46	53.54	
	2.917	6	min	1	1.31	2.62		2.32	4.79	-1.55	4.92	
			max	1	-28.52	21.52		11.09	22.42	-28.84	29.00	
60061	0.000	6	min	1	-20.03	24.82		3.49	24.87	-20.17	24.90	
			max	1	-118.95	118.86		16.76	119.10	-119.11	119.22	
	0.583	6	min	1	-21.38	23.73		2.92	23.78	-21.46	23.80	
			max	1	-107.63	114.38		19.93	114.63	-108.22	114.75	
	1.167	6	min	1	-1.95	3.56		1.97	3.79	-2.44	4.08	
			max	1	-10.96	16.80		14.55	17.93	-15.59	25.20	
	1.750	6	min	1	-3.96	7.91		1.02	7.94	-3.97	7.95	
			max	1	-43.96	46.47		9.16	46.61	-44.09	46.68	
	2.333	6	min	1	-3.64	4.48		0.04	4.48	-3.64	4.48	
			max	1	-59.59	64.66		4.64	64.66	-59.59	64.66	
	2.917	6	min	1	-6.98	9.32		0.89	9.36	-7.00	9.38	
			max	1	-38.39	43.61		8.43	43.80	-38.50	43.89	
60062	0.000	6	min	1	-0.21	4.23		1.84	4.25	-1.11	4.26	
			max	1	-25.78	25.26		12.21	26.20	-27.18	27.91	
	3.500	6	min	1	-5.46	8.85		1.71	8.89	-5.60	8.91	
			max	1	-124.00	122.78		17.28	123.04	-124.48	124.73	
	0.586	6	min	1	-22.29	28.05		3.60	28.10	-22.42	28.13	
			max	1	-151.96	159.34		30.30	159.73	-152.35	159.93	
	1.171	6	min	1	-3.03	7.47		3.33	7.50	-3.08	7.51	
			max	1	-29.04	32.09		24.89	32.21	-36.46	43.96	
	1.757	6	min	1	-12.25	17.18		2.16	17.25	-12.31	17.28	
			max	1	-70.05	76.78		19.48	77.17	-72.44	77.36	
	2.343	6	min	1	-22.10	27.03		0.98	27.04	-22.11	27.04	
			max	1	-116.14	125.55		14.07	125.61	-117.34	125.64	
	2.343	6	min	1	-23.72	28.73		0.30	28.73	-23.72	28.73	
			max	1	-125.03	134.90		9.65	134.91	-125.72	134.91	

Steel - Resistance of Cross Sections

Beam	x[m]	SNo	LC	Mat	$\sigma-x$	$\sigma+x$	$\Delta\sigma$	τ	$\sigma-I$	$\sigma-II$	$\sigma-v$	N[kN]
60062	2.929	6	min	1	-17.11	22.28		1.37	22.30	-17.12	22.30	
			max	1	-96.27	104.84		12.46	104.91	-96.74	104.95	
	3.514	6	min	1	-14.64	19.16		2.55	19.17	-14.66	19.17	
			max	1	-86.43	87.79		16.26	87.85	-86.48	87.88	
	4.100	6	min	1	-26.43	29.23		3.72	29.24	-26.44	29.25	
			max	1	-135.09	136.35		20.80	136.42	-135.15	136.45	
60063	0.000	6	min	1	-19.49	24.79		3.36	24.84	-19.62	24.86	
			max	1	-107.53	118.34		17.64	118.54	-107.74	118.65	
	0.583	6	min	1	-0.05	1.29		1.82	2.48	-1.40	5.38	
			max	1	-19.67	23.84		12.25	24.44	-21.69	24.93	
	1.167	6	min	1	-4.10	8.87		0.87	8.88	-4.11	8.88	
			max	1	-46.65	50.04		6.87	50.13	-46.75	50.18	
	1.750	6	min	1	-9.56	14.28		0.15	14.28	-9.56	14.50	
			max	1	-58.86	65.09		3.29	65.10	-58.87	65.10	
	2.333	6	min	1	-4.64	5.82		1.33	5.93	-4.69	9.67	
			max	1	-33.78	40.91		7.08	41.16	-34.05	41.29	
	2.917	6	min	1	-3.40	8.47		2.50	8.55	-3.79	8.61	
			max	1	-45.21	41.77		12.20	42.17	-45.69	45.93	
60064	0.000	6	min	1	-6.24	7.16		0.90	7.17	-6.25	7.17	
			max	1	-158.39	145.13		32.97	146.11	-159.29	159.74	
	0.600	6	min	1	-5.21	6.85		0.74	6.88	-5.28	6.89	
			max	1	-100.32	75.75		26.44	77.65	-102.32	103.33	
	1.200	6	min	1	-6.64	8.14		0.59	8.16	-6.68	8.17	
			max	1	-154.64	128.58		19.92	130.54	-155.77	156.34	
	1.800	6	min	1	-7.00	8.36		0.40	8.37	-7.03	8.38	
			max	1	-174.89	149.49		18.80	150.87	-176.67	177.57	
	2.400	6	min	1	-9.03	10.47		0.36	10.47	-9.04	10.47	
			max	1	-128.69	103.34		28.08	106.22	-132.41	134.31	
	3.000	6	min	1	-0.54	1.35		0.31	5.24	-1.80	5.33	
			max	1	-55.44	32.38		37.36	41.04	-61.25	65.91	
60065	3.600	6	min	1	-18.68	20.78		0.88	20.80	-18.70	20.81	
			max	1	-190.60	163.54		30.27	164.26	-191.20	191.51	
	0.000	6	min	1	-32.77	33.71		4.52	33.79	-32.92	33.82	
			max	1	-161.31	165.00		21.98	165.37	-162.03	165.55	
	0.586	6	min	1	-6.11	6.88		3.35	7.10	-6.52	7.29	
			max	1	-36.21	34.90		16.29	35.90	-37.09	37.54	
	1.171	6	min	1	-11.70	12.39		2.17	12.48	-11.76	12.53	
			max	1	-55.31	57.82		10.60	58.30	-55.62	58.55	
	1.757	6	min	1	-22.01	22.69		0.99	22.70	-22.02	22.71	
			max	1	-105.55	108.00		5.04	108.07	-105.60	108.10	
	2.343	6	min	1	-24.09	24.83		0.28	24.83	-24.10	24.83	
			max	1	-115.95	118.71		2.09	118.71	-115.96	118.71	
60066	2.929	6	min	1	-17.96	18.83		1.36	18.85	-17.96	18.86	
			max	1	-86.61	90.03		6.90	90.12	-86.63	90.17	
	3.514	6	min	1	-13.00	13.41		2.54	13.43	-13.02	13.44	
			max	1	-63.10	64.27		12.31	64.35	-63.18	64.40	
	4.100	6	min	1	-24.13	22.87		3.71	22.89	-24.14	24.15	
			max	1	-117.10	111.21		18.46	111.29	-117.19	117.23	
	0.000	6	min	1	-22.54	23.90		3.48	23.95	-22.66	23.97	
			max	1	-110.23	115.44		16.82	115.68	-110.82	115.81	
	0.583	6	min	1	-2.51	3.68		2.31	3.92	-2.93	4.08	
			max	1	-15.06	17.60		11.16	18.71	-16.24	19.55	
	1.167	6	min	1	-8.34	9.40		1.14	9.43	-8.36	9.45	
			max	1	-42.50	44.42		5.49	44.57	-42.63	44.65	
60066	1.750	6	min	1	-9.18	10.82		0.04	10.82	-9.18	10.82	
			max	1	-59.33	62.89		0.56	62.89	-59.33	62.89	
	2.333	6	min	1	-7.83	8.89		1.21	8.93	-7.85	8.95	
			max	1	-7.83	8.89		1.21	8.93	-7.85	8.95	

Steel - Resistance of Cross Sections

Beam	x[m]	SNo	LC	Mat	$\sigma-x$	$\sigma+x$	$\Delta\sigma$	τ	$\sigma-I$	$\sigma-II$	$\sigma-v$	N[kN]
60066	2.333	6	max	1	-38.85	42.11		5.84	42.30	-39.06	42.39	
	2.917	6	min	1	-1.88	3.69		1.80	3.79	-2.19	3.88	
			max	1	-22.51	22.18		11.51	23.03	-23.20	23.78	
	3.500	6	min	1	-18.13	20.11		2.76	20.15	-18.22	20.17	
			max	1	-118.46	122.31		17.18	122.56	-118.71	122.69	
60067	0.000	6	min	1	-23.99	25.48		3.54	25.53	-24.11	25.56	
			max	1	-121.25	122.30		17.09	122.54	-121.48	122.67	
	0.583	6	min	1	-3.60	4.91		2.37	5.07	-3.93	5.20	
			max	1	-25.60	22.91		11.43	23.72	-26.09	26.34	
	1.167	6	min	1	-7.47	8.68		1.20	8.71	-7.49	8.73	
			max	1	-38.13	41.25		5.76	41.44	-38.32	41.53	
	1.750	6	min	1	-11.67	12.84		0.01	12.84	-11.67	12.84	
			max	1	-58.33	61.29		1.52	61.29	-58.33	61.29	
	2.333	6	min	1	-7.68	8.89		1.15	8.93	-7.70	8.94	
			max	1	-41.23	42.08		6.44	42.25	-41.38	42.34	
	2.917	6	min	1	-3.17	4.25		2.32	4.66	-3.52	4.79	
			max	1	-19.34	21.30		11.83	22.15	-20.84	22.80	
	3.500	6	min	1	-23.34	24.85		3.49	24.90	-23.46	24.93	
			max	1	-114.03	119.88		16.91	120.12	-114.61	120.24	
60068	0.000	6	min	1	-23.75	25.14		3.52	25.19	-23.87	25.22	
			max	1	-118.20	121.19		17.02	121.44	-118.43	121.56	
	0.583	6	min	1	-3.47	4.68		2.35	4.85	-3.80	4.98	
			max	1	-23.52	22.19		11.35	23.03	-24.05	24.55	
	1.167	6	min	1	-7.60	8.70		1.17	8.73	-7.62	8.75	
			max	1	-37.22	41.07		5.68	41.25	-37.31	41.34	
	1.750	6	min	1	-11.69	12.75		0.00	12.75	-11.69	12.75	
			max	1	-57.04	60.72		0.37	60.72	-57.04	60.72	
	2.333	6	min	1	-7.59	8.69		1.17	8.73	-7.61	8.75	
			max	1	-37.88	41.13		5.65	41.30	-38.05	41.39	
	2.917	6	min	1	-3.48	4.69		2.34	4.85	-3.81	4.98	
			max	1	-21.18	22.10		11.32	22.93	-22.03	23.57	
	3.500	6	min	1	-8.13	6.15		1.02	6.19	-8.15	8.15	
			max	1	-115.77	121.07		16.99	121.31	-116.34	121.43	
60069	0.000	6	min	1	-19.40	20.68		2.91	20.73	-19.50	20.75	
			max	1	-117.76	122.62		17.29	122.88	-118.34	123.00	
	0.583	6	min	1	-3.66	4.75		2.41	4.92	-4.00	5.06	
			max	1	-21.92	22.12		11.62	23.02	-22.50	23.70	
	1.167	6	min	1	-7.88	8.85		1.23	8.89	-7.90	8.91	
			max	1	-39.74	42.28		5.95	42.48	-39.93	42.58	
	1.750	6	min	1	-12.31	13.26		0.06	13.26	-12.31	13.26	
			max	1	-60.10	63.45		0.88	63.45	-60.10	63.45	
	2.333	6	min	1	-8.56	9.55		1.11	9.58	-8.57	9.59	
			max	1	-42.90	45.37		5.75	45.51	-43.04	45.58	
	2.917	6	min	1	-2.27	3.37		2.28	3.62	-2.71	4.01	
			max	1	-15.61	16.05		11.13	17.25	-17.06	19.33	
	3.500	6	min	1	-22.21	23.50		3.45	23.55	-22.33	23.58	
			max	1	-108.50	113.52		16.80	113.77	-109.08	113.89	
60070	0.000	6	min	1	-23.95	25.23		3.51	25.28	-24.06	25.30	
			max	1	-116.45	121.34		16.97	121.58	-117.01	121.71	
	0.583	6	min	1	-1.54	2.59		1.19	2.68	-1.73	2.74	
			max	1	-21.93	22.41		11.30	23.20	-22.45	23.82	
	1.167	6	min	1	-5.83	7.14		0.95	7.17	-5.85	7.18	
			max	1	-37.79	40.38		5.63	40.56	-37.96	40.65	
	1.750	6	min	1	-11.57	12.51		0.01	12.51	-11.57	12.51	
			max	1	-56.69	59.94		0.84	59.94	-56.69	59.94	
	2.333	6	min	1	-7.46	8.44		1.18	8.47	-7.48	8.49	
			max	1	-37.99	40.26		6.22	40.45	-38.17	40.54	
	2.917	6	min	1	-3.75	4.83		2.35	5.00	-4.07	5.12	
			max	1	-21.63	22.60		11.61	23.42	-22.75	24.05	

Steel - Resistance of Cross Sections

Beam	x[m]	SNo	LC	Mat	$\sigma-x$	$\sigma+x$	$\Delta\sigma$	τ	$\sigma-I$	$\sigma-II$	$\sigma-v$	N[kN]
60070	3.500	6	min	1	-24.05	25.31		3.53	25.36	-24.17	25.39	
			max	1	-116.81	121.63		17.04	121.88	-117.38	122.00	
60071	0.000	6	min	1	-24.17	25.42		3.59	25.47	-24.29	25.50	
			max	1	-144.09	141.54		17.47	141.84	-144.34	144.46	
	0.583	6	min	1	-3.65	4.73		2.42	4.92	-4.00	5.06	
			max	1	-43.70	41.84		12.08	42.29	-44.20	44.46	
	1.167	6	min	1	-7.78	8.75		1.25	8.80	-7.80	8.82	
			max	1	-36.49	39.94		7.13	40.16	-36.61	40.28	
	1.750	6	min	1	-12.09	13.05		0.07	13.05	-12.09	13.05	
			max	1	-57.75	61.09		3.34	61.09	-57.75	61.09	
	2.333	6	min	1	-8.22	8.56		0.77	8.58	-8.24	8.94	
			max	1	-39.42	42.99		6.09	43.13	-39.48	43.20	
	2.917	6	min	1	-2.71	3.83		2.27	4.02	-3.08	4.17	
			max	1	-17.99	18.51		11.47	19.43	-19.60	20.67	
	3.500	6	min	1	-22.75	24.07		3.44	24.12	-22.87	24.15	
			max	1	-110.90	116.03		16.59	116.27	-111.46	116.38	
60072	0.000	6	min	1	-22.19	23.49		3.32	23.54	-22.30	23.56	
			max	1	-108.64	113.25		16.01	113.46	-108.83	113.56	
	0.583	6	min	1	-2.75	3.85		2.15	4.00	-3.08	4.13	
			max	1	-19.02	18.60		10.34	19.34	-19.42	19.92	
	1.167	6	min	1	-7.61	8.57		0.98	8.59	-7.62	8.60	
			max	1	-36.90	39.87		4.67	39.97	-37.00	40.03	
	1.750	6	min	1	-10.89	11.78		0.19	11.78	-10.89	11.78	
			max	1	-51.93	55.01		1.46	55.02	-51.94	55.02	
	2.333	6	min	1	-5.98	6.87		1.37	6.94	-6.02	6.98	
			max	1	-27.99	30.92		6.85	31.28	-28.36	31.46	
	2.917	6	min	1	-6.15	7.13		2.54	7.24	-6.40	7.35	
			max	1	-36.95	35.99		12.33	36.49	-37.43	37.95	
	3.500	6	min	1	-27.27	28.40		3.71	28.46	-27.39	28.48	
			max	1	-135.44	139.24		18.00	139.50	-135.69	139.64	
60073	0.000	6	min	1	-1.85	3.47		0.77	3.50	-1.94	3.51	
			max	1	-135.32	145.79		26.21	145.92	-135.46	145.98	
	0.600	6	min	1	-1.71	3.39		0.66	3.40	-1.72	3.40	
			max	1	-75.56	74.88		19.69	75.26	-76.32	76.71	
	1.200	6	min	1	-4.16	5.76		0.55	5.78	-4.18	5.79	
			max	1	-131.14	129.20		13.17	129.43	-131.20	131.23	
	1.800	6	min	1	-6.31	7.87		0.42	7.88	-6.31	7.89	
			max	1	-150.58	149.34		12.17	149.37	-150.60	150.94	
	2.400	6	min	1	-7.35	8.87		0.28	8.88	-7.35	8.89	
			max	1	-104.18	103.04		21.45	103.26	-105.16	106.33	
	3.000	6	min	1	-2.51	2.93		0.29	3.40	-2.94	4.83	
			max	1	-30.47	31.47		30.73	35.62	-34.73	53.22	
	3.600	6	min	1	-7.79	9.44		0.31	9.45	-7.79	9.45	
			max	1	-192.07	189.24		32.58	190.76	-192.67	192.97	
60074	0.000	6	min	1	-38.90	33.23		4.39	33.30	-39.01	39.07	
			max	1	-184.65	174.66		21.15	175.26	-185.23	185.51	
	0.586	6	min	1	-12.98	7.14		3.21	7.32	-13.17	13.27	
			max	1	-59.69	55.14		15.46	56.20	-60.63	61.11	
	1.171	6	min	1	-8.77	-0.99		0.17	0.03	-8.77	8.77	
			max	1	-49.66	42.76		9.89	43.04	-49.92	50.06	
	1.757	6	min	1	-20.28	14.31		0.86	14.32	-20.29	20.29	
			max	1	-95.65	87.10		4.48	87.13	-95.69	95.71	
	2.343	6	min	1	-21.61	15.69		0.32	15.69	-21.61	21.61	
			max	1	-101.73	93.49		2.53	93.50	-101.74	101.74	
	2.929	6	min	1	-14.70	8.89		1.50	8.95	-14.71	14.71	
			max	1	-67.93	61.96		7.30	62.01	-67.98	68.00	
	3.514	6	min	1	-11.13	4.79		2.67	4.84	-11.15	11.16	
			max	1	-49.94	41.18		12.99	41.24	-50.04	50.09	
	4.100	6	min	1	-29.26	23.92		3.85	23.97	-29.37	29.42	

Steel - Resistance of Cross Sections

Beam	x[m]	SNo	LC	Mat	$\sigma-x$	$\sigma+x$	$\Delta\sigma$	τ	$\sigma-I$	$\sigma-II$	$\sigma-v$	N[kN]
60074	4.100	6	max	1	-140.65	127.41		18.96	127.96	-141.20	141.47	
60075	0.000	6	min	1	-24.65	23.78		3.50	23.84	-24.76	24.82	
			max	1	-119.29	117.29		16.96	117.65	-119.84	120.12	
	0.583	6	min	1	-4.41	3.36		2.33	3.61	-4.68	4.81	
			max	1	-21.29	23.09		11.30	23.76	-22.58	24.10	
	1.167	6	min	1	-8.87	7.71		1.16	7.75	-8.89	8.89	
			max	1	-42.47	39.07		5.63	39.15	-42.55	42.58	
	1.750	6	min	1	-3.70	-0.23		0.02	0.04	-3.70	3.70	
			max	1	-62.19	58.86		1.26	58.86	-62.19	62.19	
	2.333	6	min	1	-3.44	-0.50		0.51	0.14	-3.44	3.44	
			max	1	-42.32	41.00		6.49	41.07	-42.40	42.44	
	2.917	6	min	1	-4.60	3.45		2.36	3.79	-4.87	5.01	
			max	1	-21.64	19.37		11.88	21.26	-22.94	23.62	
60076	0.000	6	min	1	-25.82	22.07		3.45	22.12	-25.92	25.97	
			max	1	-123.09	119.17		16.69	119.56	-123.60	123.86	
	0.583	6	min	1	-3.68	1.71		2.28	2.26	-4.15	5.98	
			max	1	-26.32	26.43		11.02	27.09	-27.32	27.83	
	1.167	6	min	1	-4.64	0.12		0.21	0.24	-4.65	4.65	
			max	1	-47.22	42.35		5.35	42.41	-47.27	47.30	
	1.750	6	min	1	-14.03	9.93		0.06	9.93	-14.03	14.03	
			max	1	-65.73	60.72		0.96	60.72	-65.73	65.73	
	2.333	6	min	1	-9.53	5.62		1.23	5.68	-9.65	9.72	
			max	1	-44.65	41.45		6.35	41.54	-44.74	44.79	
	2.917	6	min	1	-6.81	2.83		2.41	3.16	-7.00	7.10	
			max	1	-31.63	28.61		11.73	29.84	-32.61	33.11	
60077	0.000	6	min	1	-8.96	4.55		0.74	4.58	-8.97	8.97	
			max	1	-119.35	117.32		17.04	117.76	-119.90	120.18	
	0.583	6	min	1	-4.45	0.42		0.55	0.56	-4.72	4.83	
			max	1	-21.19	23.05		11.37	23.95	-22.51	24.41	
	1.167	6	min	1	-3.35	-1.14		0.36	0.06	-3.35	3.35	
			max	1	-41.27	39.17		5.71	39.26	-41.35	41.39	
	1.750	6	min	1	-3.89	-0.52		0.01	0.02	-3.89	3.90	
			max	1	-61.11	58.98		0.75	58.98	-61.11	61.11	
	2.333	6	min	1	-4.06	-0.38		0.08	0.01	-4.06	4.06	
			max	1	-41.37	41.14		5.85	41.21	-41.44	41.48	
	2.917	6	min	1	-3.41	-1.02		0.22	0.02	-3.41	3.41	
			max	1	-20.94	19.04		11.29	20.62	-22.25	22.93	
60078	0.000	6	min	1	-4.94	0.72		0.41	0.73	-4.95	4.95	
			max	1	-118.98	116.91		16.96	117.16	-119.53	119.80	
	0.583	6	min	1	-26.63	22.49		3.54	22.55	-26.74	26.79	
			max	1	-127.26	135.65		17.12	136.14	-127.79	136.38	
	1.167	6	min	1	-6.29	1.70		2.37	2.41	-6.49	6.51	
			max	1	-28.80	39.19		11.46	39.97	-29.83	40.36	
	1.750	6	min	1	-10.37	5.95		1.20	6.00	-10.39	10.40	
			max	1	-47.85	42.92		6.06	43.03	-47.93	47.96	
	2.333	6	min	1	-14.53	10.06		0.02	10.06	-14.53	14.53	
			max	1	-67.99	64.70		0.83	64.71	-67.99	67.99	
	2.917	6	min	1	-4.68	0.13		0.20	0.24	-4.68	4.69	
			max	1	-48.54	48.84		5.55	48.88	-48.61	48.90	
60079	0.000	6	min	1	-2.19	1.73		2.32	2.18	-3.75	6.15	
			max	1	-27.37	26.70		11.21	27.51	-28.37	28.89	
	0.583	6	min	1	-26.26	22.13		3.49	22.19	-26.36	26.42	
			max	1	-125.11	116.76		16.88	117.36	-125.62	125.88	
	1.167	6	min	1	-4.72	10.68		0.79	10.69	-4.76	10.70	
			max	1	-145.01	180.79		26.20	181.62	-145.41	182.03	

Steel - Resistance of Cross Sections

Beam	x[m]	SNo	LC	Mat	$\sigma-x$	$\sigma+x$	$\Delta\sigma$	τ	$\sigma-I$	$\sigma-II$	$\sigma-v$	N[kN]
60079	0.600	6	min	1	-0.01	3.20		0.68	3.25	-0.41	6.11	
			max	1	-35.78	62.14		16.92	62.22	-35.88	62.29	
	1.200	6	min	1	2.01	4.01		0.57	4.01	-0.10	4.02	
			max	1	-68.33	107.17		8.09	107.19	-68.50	107.21	
	1.800	6	min	1	0.30	5.66		0.37	5.68	-0.20	5.69	
			max	1	-93.76	133.22		5.14	133.24	-93.78	133.24	
	2.400	6	min	1	-0.92	5.59		0.29	5.67	-0.97	6.88	
			max	1	-53.11	92.59		14.42	92.79	-53.67	92.88	
	3.000	6	min	1	-0.60	3.20		0.28	3.60	-0.70	6.75	
			max	1	-36.00	55.52		23.70	58.61	-37.10	60.21	
	3.600	6	min	1	-1.30	7.41		0.11	7.41	-1.30	7.41	
			max	1	-190.64	228.21		35.54	230.03	-191.19	230.95	
60080	0.000	6	min	1	-5.14	1.40		0.51	1.44	-5.14	5.14	
			max	1	-120.95	122.45		17.03	122.69	-121.17	122.81	
	0.583	6	min	1	-2.41	-1.23		0.32	0.05	-2.42	2.42	
			max	1	-25.60	23.32		11.36	24.10	-26.08	26.32	
	1.167	6	min	1	-3.23	-0.44		0.12	0.01	-3.23	3.23	
			max	1	-38.02	41.22		5.70	41.40	-38.21	41.49	
	1.750	6	min	1	-3.56	-0.09		0.01	0.02	-3.56	3.56	
			max	1	-57.93	60.98		1.61	60.98	-57.93	60.98	
	2.333	6	min	1	-2.65	-1.09		0.26	0.04	-2.65	2.65	
			max	1	-40.54	41.50		6.69	41.67	-40.69	41.76	
	2.917	6	min	1	-2.94	-0.24		0.45	0.13	-3.24	3.43	
			max	1	-20.52	22.78		12.07	23.57	-22.04	24.19	
	3.500	6	min	1	-7.08	3.40		0.64	3.42	-7.09	7.09	
			max	1	-115.18	121.63		17.06	121.87	-115.75	121.99	
60081	0.000	6	min	1	-13.72	14.69		2.08	14.76	-13.75	14.79	
			max	1	-117.25	115.99		16.92	116.24	-117.80	118.08	
	0.583	6	min	1	-1.57	2.66		1.38	2.81	-1.76	2.89	
			max	1	-19.52	17.35		11.26	18.47	-20.90	21.63	
	1.167	6	min	1	-4.52	5.67		0.68	5.68	-4.54	5.68	
			max	1	-41.68	41.82		5.59	41.88	-41.76	41.91	
	1.750	6	min	1	-6.85	8.02		0.02	8.02	-6.85	8.02	
			max	1	-61.13	59.65		0.50	59.65	-61.13	61.13	
	2.333	6	min	1	-4.33	5.48		0.72	5.49	-4.35	5.50	
			max	1	-40.98	39.84		5.74	39.93	-41.06	41.10	
	2.917	6	min	1	-1.96	3.05		1.42	3.19	-2.12	3.27	
			max	1	-20.97	20.34		11.41	21.62	-22.31	23.02	
	3.500	6	min	1	-14.29	15.27		2.12	15.34	-14.32	15.37	
			max	1	-119.43	118.11		17.08	118.36	-119.99	120.27	
60082	0.000	6	min	1	-14.17	15.22		2.10	15.29	-14.20	15.32	
			max	1	-118.99	118.23		17.02	118.48	-119.55	119.83	
	0.583	6	min	1	-1.91	3.08		1.40	3.22	-2.07	3.29	
			max	1	-20.80	19.73		11.39	21.03	-22.14	22.84	
	1.167	6	min	1	-4.21	5.45		0.70	5.46	-4.24	5.46	
			max	1	-40.33	38.71		6.00	38.80	-40.41	40.46	
	1.750	6	min	1	-6.65	7.91		0.00	7.91	-6.65	7.91	
			max	1	-60.22	57.86		0.61	57.86	-60.22	60.22	
	2.333	6	min	1	-4.25	4.02		0.63	4.04	-4.27	4.58	
			max	1	-40.51	38.86		5.65	38.94	-40.59	40.64	
	2.917	6	min	1	-1.84	1.65		1.22	1.82	-2.01	2.40	
			max	1	-20.44	19.38		11.32	20.64	-21.79	22.49	
	3.500	6	min	1	-14.06	15.12		2.10	15.19	-14.09	15.22	
			max	1	-118.44	117.68		16.99	117.93	-119.00	119.28	
60083	0.000	6	min	1	-14.13	15.08		2.10	15.15	-14.16	15.18	
			max	1	-118.31	117.91		16.97	118.16	-118.86	119.14	
	0.583	6	min	1	-1.91	2.98		1.40	3.12	-2.07	3.19	
			max	1	-20.33	19.05		11.31	20.06	-21.68	22.39	
	1.167	6	min	1	-4.28	5.41		0.70	5.42	-4.31	5.42	
			max	1	-40.33	38.71		6.00	38.80	-40.41	40.46	

Steel - Resistance of Cross Sections

Beam	x[m]	SNo	LC	Mat	$\sigma-x$	$\sigma+x$	$\Delta\sigma$	τ	$\sigma-I$	$\sigma-II$	$\sigma-v$	N[kN]
60083	1.167	6	max	1	-40.23	39.17		5.79	39.24	-40.31	40.35	
	1.750	6	min	1	-6.69	7.84		0.00	7.84	-6.69	7.84	
			max	1	-59.91	57.90		0.43	57.90	-59.91	59.91	
	2.333	6	min	1	-4.24	5.37		0.71	5.38	-4.27	5.39	
			max	1	-39.99	38.63		5.70	38.71	-40.08	40.12	
	2.917	6	min	1	-1.99	2.98		1.41	3.18	-2.14	3.27	
			max	1	-20.82	19.86		11.36	21.12	-22.16	22.86	
	3.500	6	min	1	-14.24	15.20		2.11	15.26	-14.27	15.30	
			max	1	-119.03	118.62		17.03	118.87	-119.59	119.87	
60084	0.000	6	min	1	-14.35	15.31		2.13	15.38	-14.39	15.41	
			max	1	-119.85	118.65		17.14	118.91	-120.41	120.70	
	0.583	6	min	1	-1.98	3.04		1.43	3.19	-2.14	3.27	
			max	1	-21.07	19.42		11.47	20.76	-22.43	23.14	
	1.167	6	min	1	-4.37	5.50		0.73	5.51	-4.40	5.51	
			max	1	-41.05	39.78		5.82	39.86	-41.14	41.19	
	1.750	6	min	1	-6.94	8.08		0.03	8.08	-6.94	8.08	
			max	1	-61.51	59.05		0.43	59.05	-61.51	61.51	
	2.333	6	min	1	-4.65	5.77		0.67	5.78	-4.67	5.78	
			max	1	-42.38	40.68		5.53	40.74	-42.45	42.48	
	2.917	6	min	1	-1.44	2.49		1.37	2.65	-1.64	2.73	
			max	1	-18.35	17.51		11.20	18.86	-19.79	20.55	
60085	0.000	6	min	1	-13.84	14.25		2.01	14.31	-13.87	14.34	
			max	1	-114.03	113.02		16.35	113.24	-114.55	114.81	
	0.583	6	min	1	-2.03	2.56		1.31	2.70	-2.15	2.78	
			max	1	-19.14	17.49		10.68	18.73	-20.38	21.02	
	1.167	6	min	1	-4.27	4.88		0.61	4.89	-4.29	4.89	
			max	1	-39.13	37.90		5.01	37.95	-39.18	39.20	
	1.750	6	min	1	-6.25	6.90		0.10	6.90	-6.25	6.90	
			max	1	-55.82	53.73		0.77	53.73	-55.82	55.82	
	2.333	6	min	1	-3.38	4.02		0.79	4.04	-3.43	4.05	
			max	1	-32.91	31.91		6.32	32.05	-33.06	33.14	
	2.917	6	min	1	-3.75	4.34		1.49	4.46	-3.82	4.52	
			max	1	-31.99	30.04		11.99	31.01	-33.02	33.55	
60086	0.000	6	min	1	-35.45	35.32		4.47	35.38	-35.59	35.66	
			max	1	-170.49	169.96		21.43	170.27	-171.14	171.46	
	0.586	6	min	1	-6.00	4.80		2.02	5.01	-6.08	6.15	
			max	1	-44.80	43.36		15.74	44.03	-46.12	46.79	
	1.171	6	min	1	-9.08	8.65		2.11	8.78	-9.14	9.18	
			max	1	-43.32	41.33		10.05	41.94	-43.62	43.77	
	1.757	6	min	1	-18.90	18.43		0.94	18.45	-18.91	18.91	
			max	1	-90.07	87.90		4.36	87.97	-90.11	90.13	
	2.343	6	min	1	-20.46	20.04		0.24	20.04	-20.46	20.46	
			max	1	-96.91	94.92		1.84	94.92	-96.91	96.92	
	2.929	6	min	1	-13.80	13.48		1.42	13.51	-13.81	13.81	
			max	1	-63.92	62.45		7.25	62.60	-63.97	64.00	
60087	0.000	6	min	1	-9.15	6.37		2.59	6.44	-9.17	9.18	
			max	1	-42.02	40.71		12.71	40.80	-42.11	42.16	
	4.100	6	min	1	-24.23	24.36		3.77	24.41	-24.35	24.44	
			max	1	-121.40	122.07		18.40	122.32	-122.00	122.44	
	0.583	6	min	1	-25.86	25.45		3.57	25.51	-25.97	26.03	
			max	1	-132.29	134.89		17.26	135.41	-132.55	135.67	
	1.167	6	min	1	-5.30	4.73		2.40	4.90	-5.54	5.67	
			max	1	-33.67	36.97		11.80	37.86	-34.17	38.32	
	3.500	6	min	1	-7.82	7.14		1.23	7.19	-7.84	7.85	
			max	1	-37.74	34.90		6.42	35.14	-37.84	37.90	

Steel - Resistance of Cross Sections

Beam	x[m]	SNo	LC	Mat	$\sigma-x$	$\sigma+x$	$\Delta\sigma$	τ	$\sigma-I$	$\sigma-II$	$\sigma-v$	N[kN]
60087	1.750	6	min	1	-6.68	7.30		0.05	7.30	-6.68	7.30	
			max	1	-58.75	55.78		2.61	55.78	-58.75	58.75	
	2.333	6	min	1	-4.43	5.02		0.66	5.03	-4.45	5.03	
			max	1	-40.16	37.64		5.95	37.69	-40.22	40.26	
	2.917	6	min	1	-4.21	3.68		2.29	3.89	-4.48	4.62	
			max	1	-20.18	18.02		11.33	19.13	-21.48	22.15	
60088	0.000	6	min	1	-4.40	6.67		0.96	6.72	-4.44	6.74	
			max	1	-148.50	151.42		27.98	152.62	-148.93	153.28	
	0.600	6	min	1	-1.26	2.99		0.80	3.07	-1.28	3.41	
			max	1	-33.74	40.49		18.69	40.66	-34.15	40.88	
	1.200	6	min	1	-0.95	3.11		0.64	3.14	-1.12	3.16	
			max	1	-95.37	100.91		9.41	100.95	-95.66	100.97	
	1.800	6	min	1	-3.08	5.17		0.30	5.18	-3.12	5.19	
			max	1	-119.74	125.75		3.32	125.80	-119.75	125.83	
	2.400	6	min	1	-4.12	6.13		0.27	6.14	-4.14	6.14	
			max	1	-78.07	83.95		11.01	84.17	-78.28	84.28	
	3.000	6	min	1	-3.51	2.20		0.21	2.51	-3.67	3.78	
			max	1	-25.96	31.21		20.29	34.11	-28.61	35.64	
	3.600	6	min	1	-7.77	9.99		0.17	9.99	-7.77	9.99	
			max	1	-201.52	205.43		29.57	206.43	-202.00	206.93	
70001	0.000	7	min	1	-2.86	4.66		0.47	4.70	-2.87	4.73	
			max	1	-34.04	27.26		3.00	27.31	-34.05	34.05	
	0.600	7	min	1	-0.42	2.22		0.57	2.46	-0.58	2.64	
			max	1	-25.41	22.89		2.87	22.89	-25.46	25.48	
	1.200	7	min	1	-1.44	1.06		0.68	1.08	-1.49	3.37	
			max	1	-18.41	18.16		2.77	18.16	-18.47	18.51	
	1.800	7	min	1	0.17	-4.14		0.74	0.11	-1.46	3.23	
			max	1	-12.44	12.25		2.88	12.25	-12.54	12.72	
	2.400	7	min	1	2.65	-5.42		0.83	0.13	-0.22	2.51	
			max	1	-11.37	5.52		2.98	5.80	-11.58	11.79	
	3.000	7	min	1	-0.64	-2.98		0.96	0.27	-0.78	2.80	
			max	1	-13.85	10.74		3.09	10.78	-13.98	14.06	
	3.600	7	min	1	-4.29	-1.27		0.93	0.28	-4.29	5.89	
			max	1	-16.28	20.18		3.20	20.20	-16.35	20.20	
70002	0.000	7	min	1	0.12	1.52		0.32	1.80	-0.51	2.91	
			max	1	-5.92	7.59		1.04	7.59	-5.93	7.59	
	0.583	7	min	1	1.73	-0.68		0.21	0.45	-0.12	1.10	
			max	1	-3.09	4.24		0.92	4.24	-3.11	4.24	
	1.167	7	min	1	0.97	0.41		0.10	0.72	-0.10	1.34	
			max	1	-4.23	4.17		0.80	4.18	-4.25	4.26	
	1.750	7	min	1	1.15	0.66		0.06	0.94	-0.11	1.68	
			max	1	-4.30	3.96		0.72	3.97	-4.34	4.36	
	2.333	7	min	1	2.30	-0.20		0.13	0.69	-0.02	1.06	
			max	1	-3.45	2.78		0.84	2.86	-3.48	3.50	
	2.917	7	min	1	0.57	-1.06		0.23	0.42	-0.26	1.11	
			max	1	-2.60	4.58		0.96	4.62	-2.62	4.64	
	3.500	7	min	1	-2.54	2.24		0.34	2.38	-2.62	3.50	
			max	1	-6.14	7.65		1.08	7.65	-6.15	7.65	
70003	0.000	7	min	1	0.59	1.32		0.28	1.40	-0.08	1.49	
			max	1	-6.24	3.76		0.56	3.77	-6.25	6.25	
	0.583	7	min	1	0.66	-0.77		0.17	0.08	-0.04	0.66	
			max	1	-2.87	3.03		0.41	3.03	-2.87	3.04	
	1.167	7	min	1	-0.10	-0.63		0.06	0.02	-0.11	1.48	
			max	1	-2.98	3.86		0.29	3.86	-2.98	3.86	
	1.750	7	min	1	0.11	-0.11		0.02	0.00	-0.02	1.54	
			max	1	-3.41	3.72		0.32	3.72	-3.41	3.72	
	2.333	7	min	1	1.12	-0.39		0.11	0.02	-0.03	0.78	
			max	1								

Steel - Resistance of Cross Sections

Beam	x[m]	SNo	LC	Mat	$\sigma-x$	$\sigma+x$	$\Delta\sigma$	τ	$\sigma-I$	$\sigma-II$	$\sigma-v$	N[kN]
70003	2.333	7	max	1	-2.97	2.56		0.44	2.57	-2.97	2.98	
	2.917	7	min	1	0.19	-1.12		0.22	0.03	-0.15	1.03	
			max	1	-2.66	3.51		0.56	3.51	-2.66	3.51	
	3.500	7	min	1	-2.98	1.29		0.33	1.30	-2.99	3.83	
			max	1	-6.35	6.69		0.69	6.69	-6.35	6.69	
70004	0.000	7	min	1	-1.12	-1.62		0.33	0.32	-1.14	2.69	
			max	1	-3.49	7.39		0.94	7.40	-3.52	7.41	
	0.583	7	min	1	1.95	-1.57		0.22	0.07	-0.05	0.60	
			max	1	-3.48	4.18		0.83	4.19	-3.55	4.19	
	1.167	7	min	1	2.04	-0.83		0.11	0.29	-0.02	1.60	
			max	1	-4.26	4.12		0.71	4.12	-4.30	4.33	
	1.750	7	min	1	1.23	-0.97		0.02	0.32	-0.01	1.93	
			max	1	-4.07	4.90		0.71	4.90	-4.10	4.90	
	2.333	7	min	1	1.62	-2.15		0.13	0.07	-0.01	1.29	
			max	1	-2.99	4.56		0.82	4.56	-3.01	4.56	
	2.917	7	min	1	2.96	-0.47		0.25	0.17	-0.02	1.02	
			max	1	-4.66	3.17		0.94	3.17	-4.67	4.68	
	3.500	7	min	1	0.69	2.60		0.36	2.61	-0.12	3.59	
			max	1	-8.18	6.07		1.07	6.07	-8.19	8.19	
70005	0.000	7	min	1	0.58	2.28		0.32	2.29	-0.16	2.29	
			max	1	-5.70	4.74		0.50	4.75	-5.71	5.71	
	0.583	7	min	1	0.81	-0.24		0.21	0.17	-0.09	0.38	
			max	1	-2.42	2.90		0.35	2.90	-2.43	2.90	
	1.167	7	min	1	0.07	-0.62		0.10	0.04	-0.11	1.37	
			max	1	-2.20	3.70		0.21	3.70	-2.21	3.70	
	1.750	7	min	1	-0.20	-0.01		0.01	0.03	-0.21	1.61	
			max	1	-2.96	3.51		0.18	3.51	-2.96	3.51	
	2.333	7	min	1	0.97	-0.30		0.10	0.06	-0.07	0.83	
			max	1	-2.40	2.90		0.30	2.91	-2.40	2.91	
	2.917	7	min	1	1.10	-0.63		0.21	0.11	-0.05	0.47	
			max	1	-2.03	3.12		0.42	3.12	-2.03	3.13	
	3.500	7	min	1	-1.14	2.10		0.32	2.12	-1.15	2.66	
			max	1	-5.18	6.49		0.54	6.50	-5.18	6.51	
70006	0.000	7	min	1	-1.20	1.45		0.30	1.46	-1.23	2.25	
			max	1	-4.80	6.97		0.50	6.97	-4.82	6.98	
	0.583	7	min	1	1.16	-1.21		0.19	0.06	-0.05	0.36	
			max	1	-1.64	3.41		0.37	3.41	-1.67	3.41	
	1.167	7	min	1	1.08	-0.00		0.08	0.08	-0.05	1.37	
			max	1	-2.84	2.68		0.25	2.68	-2.84	2.84	
	1.750	7	min	1	-0.06	0.32		0.02	0.32	-0.08	1.82	
			max	1	-3.27	3.34		0.13	3.34	-3.27	3.34	
	2.333	7	min	1	0.39	-0.41		0.09	0.05	-0.08	0.86	
			max	1	-2.47	3.67		0.23	3.67	-2.47	3.67	
	2.917	7	min	1	0.43	-0.18		0.19	0.14	-0.06	0.73	
			max	1	-2.66	2.86		0.38	2.86	-2.67	2.86	
	3.500	7	min	1	0.63	2.63		0.30	2.63	-0.10	2.63	
			max	1	-6.09	5.43		0.52	5.44	-6.10	6.11	
70007	0.000	7	min	1	0.33	2.26		0.41	2.30	-0.30	2.35	
			max	1	-6.16	7.25		0.84	7.25	-6.16	7.26	
	0.583	7	min	1	0.65	-0.75		0.30	0.28	-0.14	0.93	
			max	1	-2.53	4.17		0.71	4.17	-2.53	4.17	
	1.167	7	min	1	2.13	-0.18		0.19	0.45	-0.05	1.26	
			max	1	-3.10	2.61		0.59	2.64	-3.11	3.12	
	1.750	7	min	1	1.09	0.93		0.11	1.00	-0.05	1.67	
			max	1	-4.21	3.67		0.47	3.68	-4.23	4.24	
	2.333	7	min	1	1.02	0.74		0.10	0.74	-0.10	0.81	
			max	1	-4.24	3.82		0.52	3.82	-4.25	4.26	
	2.917	7	min	1	1.33	-0.35		0.21	0.37	-0.11	0.97	
			max	1	-3.17	4.73		0.65	4.73	-3.17	4.73	

Steel - Resistance of Cross Sections

Beam	x[m]	SNo	LC	Mat	$\sigma-x$	$\sigma+x$	$\Delta\sigma$	τ	$\sigma-I$	$\sigma-II$	$\sigma-v$	N[kN]
70007	3.500	7	min	1	-0.90	0.51		0.32	0.90	-0.95	2.05	
			max	1	-5.95	8.41		0.77	8.41	-5.98	8.41	
70008	0.000	7	min	1	-4.41	5.87		0.99	5.91	-4.41	6.44	
			max	1	-14.72	20.06		3.14	20.08	-14.77	20.08	
	0.586	7	min	1	-0.82	1.04		0.88	1.75	-0.97	2.86	
			max	1	-6.44	11.58		3.02	11.61	-6.55	11.62	
	1.171	7	min	1	3.51	0.58		0.77	1.51	-0.19	2.25	
			max	1	-4.24	5.45		2.90	6.13	-4.35	6.91	
	1.757	7	min	1	1.88	3.06		0.67	3.10	-0.64	3.13	
			max	1	-6.83	9.39		2.78	9.40	-6.90	9.40	
	2.343	7	min	1	-0.32	3.57		0.61	3.61	-1.67	3.63	
			max	1	-10.06	14.51		2.66	14.51	-10.16	14.51	
	2.929	7	min	1	-1.14	3.11		0.58	3.15	-1.18	3.21	
			max	1	-14.44	18.50		2.71	18.50	-14.51	18.50	
	3.514	7	min	1	-0.09	2.35		0.48	2.55	-0.40	2.71	
			max	1	-17.88	21.37		2.83	21.38	-17.92	21.38	
	4.100	7	min	1	2.16	3.10		0.58	3.40	-0.97	3.92	
			max	1	-20.38	23.55		2.95	23.55	-20.42	23.56	
70009	0.000	7	min	1	-1.61	1.17		0.83	1.83	-2.54	3.18	
			max	1	-19.91	22.26		5.77	22.48	-20.23	22.59	
	0.600	7	min	1	-1.84	1.40		0.71	1.93	-2.61	3.15	
			max	1	-13.32	15.72		5.66	16.15	-14.24	16.87	
	1.200	7	min	1	-1.65	2.50		0.59	2.81	-3.30	3.63	
			max	1	-8.00	10.27		5.55	11.67	-9.97	12.82	
	1.800	7	min	1	-0.22	1.86		0.54	2.83	-2.55	3.25	
			max	1	-6.00	5.84		5.45	8.46	-8.65	10.72	
	2.400	7	min	1	-0.00	0.34		0.66	1.69	-1.54	1.70	
			max	1	-3.42	3.79		5.50	7.43	-7.35	10.06	
	3.000	7	min	1	0.21	0.94		0.78	1.80	-1.13	1.81	
			max	1	-3.63	5.11		5.62	8.14	-7.50	10.24	
70010	3.600	7	min	1	-1.79	3.34		0.91	3.85	-2.92	4.11	
			max	1	-9.19	7.61		5.75	9.64	-11.35	12.98	
	0.000	7	min	1	0.98	1.90		0.32	2.38	-0.04	2.38	
			max	1	-7.66	6.23		1.84	6.24	-7.71	7.75	
	0.583	7	min	1	1.19	-0.49		0.21	0.75	-0.46	1.03	
			max	1	-4.58	7.48		1.72	7.48	-4.73	7.48	
	1.167	7	min	1	0.13	-1.74		0.10	0.52	-0.62	0.92	
			max	1	-3.37	7.78		1.60	7.78	-3.76	7.78	
	1.750	7	min	1	-0.37	-1.04		0.12	0.76	-0.72	1.47	
			max	1	-4.15	7.16		1.48	7.16	-4.49	7.16	
	2.333	7	min	1	0.93	-1.30		0.21	0.47	-0.07	1.10	
			max	1	-3.83	5.43		1.55	5.43	-4.29	5.43	
	2.917	7	min	1	1.72	-1.51		0.31	0.41	-0.09	0.63	
			max	1	-3.56	4.64		1.67	4.64	-4.16	4.64	
	3.500	7	min	1	-1.70	0.68		0.42	1.51	-1.75	2.97	
			max	1	-6.35	8.35		1.79	8.36	-6.52	8.36	
70011	0.000	7	min	1	-1.54	0.67		0.36	0.71	-1.55	3.84	
			max	1	-5.69	6.15		0.88	6.18	-5.69	6.20	
	0.583	7	min	1	0.98	-1.65		0.25	0.04	-0.06	1.06	
			max	1	-2.38	2.93		0.76	2.98	-2.39	3.05	
	1.167	7	min	1	0.90	-0.48		0.14	0.03	-0.02	1.46	
			max	1	-3.65	2.87		0.64	2.87	-3.65	3.65	
	1.750	7	min	1	0.31	0.06		0.02	0.07	-0.01	1.70	
			max	1	-4.09	3.46		0.52	3.46	-4.09	4.09	
	2.333	7	min	1	0.70	-0.63		0.13	0.03	-0.03	1.52	
			max	1	-3.41	3.08		0.61	3.08	-3.41	3.41	
	2.917	7	min	1	1.22	-1.15		0.24	0.06	-0.05	1.22	
			max	1	-2.89	2.55		0.73	2.55	-2.89	2.90	
	3.500	7	min	1	-1.17	1.79		0.35	1.80	-1.20	3.77	

Steel - Resistance of Cross Sections

Beam	x[m]	SNo	LC	Mat	$\sigma-x$	$\sigma+x$	$\Delta\sigma$	τ	$\sigma-I$	$\sigma-II$	$\sigma-v$	N[kN]
70011	3.500	7	max	1	-6.11	4.94		0.85	4.94	-6.12	6.13	
70012	0.000	7	min	1	-1.66	2.56		0.34	2.57	-1.68	3.35	
			max	1	-5.11	4.56		0.57	4.57	-5.12	5.13	
	0.583	7	min	1	0.83	-0.32		0.23	0.17	-0.07	0.82	
			max	1	-1.79	2.08		0.43	2.08	-1.81	2.09	
	1.167	7	min	1	0.35	0.00		0.12	0.12	-0.04	1.38	
			max	1	-2.28	2.56		0.28	2.56	-2.29	2.56	
	1.750	7	min	1	-0.11	0.49		0.02	0.49	-0.11	1.72	
			max	1	-2.94	3.01		0.14	3.01	-2.94	3.02	
	2.333	7	min	1	0.42	-0.01		0.12	0.16	-0.03	1.28	
			max	1	-2.27	2.49		0.28	2.49	-2.27	2.49	
	2.917	7	min	1	0.93	-0.53		0.23	0.13	-0.06	0.80	
			max	1	-1.61	1.97		0.43	1.98	-1.63	1.99	
	3.500	7	min	1	-1.52	1.94		0.34	1.94	-1.54	3.69	
			max	1	-5.08	4.56		0.58	4.56	-5.10	5.11	
70013	0.000	7	min	1	-1.78	2.18		0.37	2.21	-1.79	3.55	
			max	1	-4.65	4.53		0.57	4.54	-4.65	4.66	
	0.583	7	min	1	0.69	-0.25		0.26	0.20	-0.09	0.83	
			max	1	-1.35	1.83		0.44	1.84	-1.36	1.86	
	1.167	7	min	1	0.20	0.25		0.13	0.31	-0.07	1.35	
			max	1	-2.02	2.43		0.32	2.44	-2.02	2.44	
	1.750	7	min	1	-0.30	0.70		0.01	0.71	-0.31	1.80	
			max	1	-2.64	2.82		0.20	2.82	-2.64	2.82	
	2.333	7	min	1	0.18	0.16		0.14	0.24	-0.10	1.33	
			max	1	-1.94	2.34		0.31	2.34	-1.95	2.34	
	2.917	7	min	1	0.75	-0.11		0.26	0.24	-0.10	0.86	
			max	1	-1.49	1.77		0.44	1.77	-1.52	1.77	
	3.500	7	min	1	-1.70	2.38		0.37	2.40	-1.72	3.50	
			max	1	-4.81	4.48		0.56	4.48	-4.83	4.84	
70014	0.000	7	min	1	-1.28	2.11		0.32	2.14	-1.30	3.67	
			max	1	-6.10	4.81		0.51	4.81	-6.10	6.10	
	0.583	7	min	1	1.10	-0.94		0.21	0.09	-0.04	1.07	
			max	1	-2.76	2.43		0.36	2.43	-2.77	2.77	
	1.167	7	min	1	0.62	-0.43		0.10	0.07	-0.02	1.51	
			max	1	-3.28	2.91		0.22	2.91	-3.28	3.28	
	1.750	7	min	1	0.27	0.30		0.01	0.31	0.00	1.90	
			max	1	-4.01	3.26		0.10	3.26	-4.01	4.01	
	2.333	7	min	1	0.90	-0.20		0.12	0.03	-0.01	1.44	
			max	1	-3.61	2.63		0.22	2.63	-3.61	3.61	
	2.917	7	min	1	0.83	-1.62		0.23	0.04	-0.05	0.84	
			max	1	-2.09	2.98		0.34	2.98	-2.11	2.98	
	3.500	7	min	1	-1.70	0.32		0.34	0.36	-1.72	3.44	
			max	1	-4.85	6.10		0.49	6.10	-4.86	6.10	
70015	0.000	7	min	1	-1.72	-0.29		0.61	0.87	-1.92	3.73	
			max	1	-5.35	6.32		1.24	6.38	-5.46	6.41	
	0.583	7	min	1	0.90	-1.90		0.41	0.23	-0.40	1.23	
			max	1	-3.03	2.62		1.13	2.89	-3.36	3.57	
	1.167	7	min	1	0.20	-1.54		0.37	0.34	-0.63	1.75	
			max	1	-3.45	3.29		1.01	3.35	-3.64	3.77	
	1.750	7	min	1	-0.62	-1.58		0.29	0.44	-0.91	2.13	
			max	1	-3.49	4.76		1.04	4.80	-3.58	4.82	
	2.333	7	min	1	-0.33	-1.15		0.41	0.36	-0.64	1.40	
			max	1	-3.98	5.12		1.16	5.16	-4.03	5.18	
	2.917	7	min	1	0.92	0.64		0.54	0.99	-0.35	2.05	
			max	1	-6.52	4.61		1.28	4.65	-6.54	6.55	
	3.500	7	min	1	0.22	3.13		0.66	3.16	-0.38	3.17	
			max	1	-10.20	5.89		1.40	5.94	-10.22	10.22	
70016	0.000	7	min	1	-0.84	2.94		0.89	4.44	-3.18	5.02	
			max	1	-10.06	8.26		5.65	8.98	-11.87	13.35	

Steel - Resistance of Cross Sections

Beam	x[m]	SNo	LC	Mat	σ -x	σ +x	$\Delta\sigma$	τ	σ -I	σ -II	σ -v	N[kN]
70016	0.586	7	min	1	0.55	1.22		0.77	1.85	-2.00	2.27	
			max	1	-4.16	2.35		5.53	5.43	-7.74	10.19	
	1.171	7	min	1	0.96	1.01		0.65	1.72	-1.35	1.86	
			max	1	-3.86	1.94		5.41	5.48	-7.54	10.06	
	1.757	7	min	1	0.15	1.14		0.53	2.52	-1.80	2.83	
			max	1	-6.58	4.41		5.29	7.30	-9.14	10.99	
	2.343	7	min	1	0.07	0.98		0.46	2.44	-1.62	3.12	
			max	1	-8.98	6.54		5.17	8.78	-10.54	11.83	
	2.929	7	min	1	-1.15	2.03		0.58	2.68	-1.92	3.46	
			max	1	-10.25	7.81		5.05	9.61	-11.64	12.84	
	3.514	7	min	1	-1.53	1.05		0.70	1.53	-2.23	2.72	
			max	1	-10.39	10.45		5.11	11.24	-11.87	13.11	
	4.100	7	min	1	-2.11	1.63		0.82	1.87	-2.71	3.15	
			max	1	-13.52	15.52		5.23	16.01	-13.87	16.30	
Total			min	1	78.59	-78.63		0.00	0.00	0.00	0.36	
Total			max	1	-202.93	228.21		72.05	230.03	-202.93	230.95	

σ -x longitud. compressive stress σ -I principal tensile stress
 σ +x longitud. tensile stress σ -II principal compressive stress
 $\Delta\sigma$ range of reinforcement stress σ -v von Mises stress
 τ shear stress N[kN] partial normal force in composite section

Maximum Stresses and Checked Limits

Mat	Check or Criterion		Value	Limit	Unit	Level	LC	Beam	x[m]
1	Centric compression	σ -n,c	91.59	235.00	MPa	0.390	2322	30092	0.000
	Centric tension	σ -n,t	89.11	235.00	MPa	0.379	2321	30064	0.000
	Longitud. compressive stress	σ -x	202.93	235.00	MPa	0.864	2325	20001	3.950
	Longitud. tensile stress	σ +x	228.21	235.00	MPa	0.971	1006	60079	3.600
	Shear stress	τ	72.02	135.68	MPa	0.531	2321	30013	0.000
	Von Mises stress	σ -v	230.95	235.00	MPa	0.983	1006	60079	3.600
	Shear in weldings			207.85	MPa				
	Compression in compr. zone	σ c-0	91.59	235.00	MPa	0.390	2322	30092	0.000
	Plate slenderness c/t			1.00					

Check for stress limits passed,

Plate Slenderness c/t

Beam	x[m]	SNo	LC	Plate	σ -a	σ -e	ψ	k- σ	c[mm]	t[mm]	c/t	c/t-lim
10001	0.000	1	max	0.65 ¹	c/t-lim(1:4) = 33.00	38.00	44.82	189.6	21.53(1)		189.622(4)	
	0.755	1	max	0.65 ¹	c/t-lim(1:4) = 33.00	38.00	52.66	180.4	21.53(1)		180.350(4)	
	1.511	1	max	0.65 ¹	c/t-lim(1:4) = 33.00	38.00	44.99	141.9	21.53(1)		141.931(4)	
10002	0.000	1	max	0.65 ¹	c/t-lim(1:4) = 33.00	38.00	44.22	116.0	21.53(1)		116.035(4)	
	0.950	1	max	0.65 ¹	c/t-lim(1:4) = 33.00	38.00	42.00	462.5	21.53(1)		462.488(4)	
10003	0.000	1	max	0.65 ¹	c/t-lim(1:4) = 33.00	38.00	53.14	308.6	21.53(1)		308.569(4)	
	0.755	1	max	0.65 ¹	c/t-lim(1:4) = 33.00	38.00	42.82	106.2	21.53(1)		106.213(4)	
	1.511	1	max	0.65 ¹	c/t-lim(1:4) = 33.00	38.00	42.23	85.04	21.53(1)		85.041(4)	
10004	0.000	1	max	0.65 ¹	c/t-lim(1:4) = 33.00	38.00	42.15	69.91	21.53(1)		69.908(4)	
	0.950	1	max	0.65 ¹	c/t-lim(1:4) = 33.00	38.00	42.00	232.0	21.53(1)		231.965(4)	
10005	0.000	1	max	0.65 ¹	c/t-lim(1:4) = 33.00	38.00	49.00	244.0	21.53(1)		243.994(4)	
	0.755	1	max	0.65 ¹	c/t-lim(1:4) = 33.00	38.00	42.16	100.0	21.53(1)		100.027(4)	
	1.511	1	max	0.65 ¹	c/t-lim(1:4) = 33.00	38.00	42.07	79.33	21.53(1)		79.333(4)	
10006	0.000	1	max	0.65 ¹	c/t-lim(1:4) = 33.00	38.00	42.05	65.31	21.53(1)		65.315(4)	
	0.950	1	max	0.65 ¹	c/t-lim(1:4) = 33.00	38.00	42.00	223.2	21.53(1)		223.189(4)	
10007	0.000	1	max	0.65 ¹	c/t-lim(1:4) = 33.00	38.00	50.01	265.5	21.53(1)		265.547(4)	
	0.755	1	max	0.65 ¹	c/t-lim(1:4) = 33.00	38.00	42.34	99.98	21.53(1)		99.979(4)	
	1.511	1	max	0.65 ¹	c/t-lim(1:4) = 33.00	38.00	42.13	79.18	21.53(1)		79.179(4)	
10008	0.000	1	max	0.65 ¹	c/t-lim(1:4) = 33.00	38.00	42.09	65.18	21.53(1)		65.184(4)	
	0.950	1	max	0.65 ¹	c/t-lim(1:4) = 33.00	38.00	42.00	223.4	21.53(1)		223.392(4)	
10009	0.000	1	max	0.65 ¹	c/t-lim(1:4) = 33.00	38.00	50.28	248.1	21.53(1)		248.135(4)	
	0.755	1	max	0.65 ¹	c/t-lim(1:4) = 33.00	38.00	42.08	100.3	21.53(1)		100.337(4)	
	1.511	1	max	0.65 ¹	c/t-lim(1:4) = 33.00	38.00	42.03	79.87	21.53(1)		79.874(4)	
10010	0.000	1	max	0.65 ¹	c/t-lim(1:4) = 33.00	38.00	42.02	65.73	21.53(1)		65.728(4)	

Steel - Resistance of Cross Sections

Plate Slenderness c/t

Beam	x[m]	SNo	LC	Plate	σ -a	σ -e	ψ	k- σ	c[mm]	t[mm]	c/t	c/t-lim
10010	0.950	1	max	0.65 ¹	c/t-lim(1:4) = 33.00 38.00 42.00				223.9	21.53(1)	223.872(4)	
10011	0.000	1	max	0.65 ¹	c/t-lim(1:4) = 33.00 38.00 50.62				253.4	21.53(1)	253.364(4)	
	0.755	1	max	0.65 ¹	c/t-lim(1:4) = 33.00 38.00 42.01				100.7	21.53(1)	100.704(4)	
	1.511	1	max	0.65 ¹	c/t-lim(1:4) = 33.00 38.00 42.00				80.24	21.53(1)	80.236(4)	
10012	0.000	1	max	0.65 ¹	c/t-lim(1:4) = 33.00 38.00 42.00				66.02	21.53(1)	66.023(4)	
	0.950	1	max	0.65 ¹	c/t-lim(1:4) = 33.00 38.00 42.00				224.9	21.53(1)	224.940(4)	
10013	0.000	1	max	0.65 ¹	c/t-lim(1:4) = 33.00 38.00 50.49				252.3	21.53(1)	252.318(4)	
	0.755	1	max	0.65 ¹	c/t-lim(1:4) = 33.00 38.00 42.05				100.0	21.53(1)	100.033(4)	
	1.511	1	max	0.65 ¹	c/t-lim(1:4) = 33.00 38.00 42.01				79.62	21.53(1)	79.616(4)	
10014	0.000	1	max	0.65 ¹	c/t-lim(1:4) = 33.00 38.00 42.01				65.51	21.53(1)	65.514(4)	
	0.950	1	max	0.65 ¹	c/t-lim(1:4) = 33.00 38.00 42.00				222.9	21.53(1)	222.921(4)	
10015	0.000	1	max	0.65 ¹	c/t-lim(1:4) = 33.00 38.00 47.88				196.0	21.53(1)	195.970(4)	
	0.755	1	max	0.65 ¹	c/t-lim(1:4) = 33.00 38.00 43.81				103.6	21.53(1)	103.571(4)	
	1.511	1	max	0.65 ¹	c/t-lim(1:4) = 33.00 38.00 42.61				82.73	21.53(1)	82.726(4)	
10016	0.000	1	max	0.65 ¹	c/t-lim(1:4) = 33.00 38.00 42.41				67.96	21.53(1)	67.965(4)	
	0.950	1	max	0.65 ¹	c/t-lim(1:4) = 33.00 38.00 42.00				221.7	21.53(1)	221.728(4)	
10017	0.000	1	max	0.65 ¹	c/t-lim(1:4) = 33.00 38.00 44.80				161.9	21.53(1)	161.937(4)	
	0.755	1	max	0.65 ¹	c/t-lim(1:4) = 33.00 38.00 56.27				180.0	21.53(1)	180.020(4)	
	1.511	1	max	0.65 ¹	c/t-lim(1:4) = 33.00 38.00 46.80				144.0	21.53(1)	143.983(4)	
10018	0.000	1	max	0.65 ¹	c/t-lim(1:4) = 33.00 38.00 45.48				117.2	21.53(1)	117.214(4)	
	0.950	1	max	0.65 ¹	c/t-lim(1:4) = 33.00 38.00 42.00				431.8	21.53(1)	431.831(4)	
20001	0.000	2	max	0.83 ¹	c/t-lim(1:4) = 33.00 38.00 61.91				450.4	27.55(1)	450.427(4)	
	0.564	2	max	0.78 ¹	c/t-lim(1:4) = 35.22 40.56 64.72				441.4	27.55(1)	441.359(4)	
	1.129	2	max	0.78 ¹	c/t-lim(1:4) = 35.33 40.68 64.82				596.6	27.55(1)	596.590(4)	
	1.693	2	max	0.83 ¹	c/t-lim(1:4) = 33.00 38.00 46.92				394.8	27.55(1)	394.787(4)	
	2.257	2	max	0.83 ¹	c/t-lim(1:4) = 33.00 38.00 61.72				402.7	27.55(1)	402.696(4)	
	2.821	2	max	0.83 ¹	c/t-lim(1:4) = 33.00 38.00 56.79				422.0	27.55(1)	422.028(4)	
	3.386	2	max	0.59 ¹	c/t-lim(1:4) = 46.80 53.91 76.95				532.5	27.55(1)	532.514(4)	
	3.950	2	max	0.54 ¹	c/t-lim(1:4) = 51.01 58.77 82.42				508.3	27.55(1)	508.276(4)	
20002	0.000	2	max	0.83 ¹	c/t-lim(1:4) = 33.00 38.00 44.70				348.4	27.55(1)	348.367(4)	
	0.564	2	max	0.83 ¹	c/t-lim(1:4) = 33.00 38.00 56.13				301.6	27.55(1)	301.598(4)	
	1.129	2	max	0.83 ¹	c/t-lim(1:4) = 33.00 38.00 46.57				247.2	27.55(1)	247.191(4)	
	1.693	2	max	0.83 ¹	c/t-lim(1:4) = 33.00 38.00 59.50				253.9	27.55(1)	253.936(4)	
	2.257	2	max	0.83 ¹	c/t-lim(1:4) = 33.00 38.00 59.16				252.8	27.55(1)	252.822(4)	
	2.821	2	max	0.83 ¹	c/t-lim(1:4) = 33.00 38.00 45.46				242.9	27.55(1)	242.923(4)	
	3.386	2	max	0.80 ¹	c/t-lim(1:4) = 34.49 39.72 64.06				248.5	27.55(1)	248.464(4)	
	3.950	2	max	0.61 ¹	c/t-lim(1:4) = 45.15 52.01 74.98				315.6	27.55(1)	315.600(4)	
20003	0.000	2	max	0.83 ¹	c/t-lim(1:4) = 33.00 38.00 50.27				766.0	27.55(1)	765.985(4)	
	0.564	2	max	0.83 ¹	c/t-lim(1:4) = 33.00 38.00 58.12				263.4	27.55(1)	263.445(4)	
	1.129	2	max	0.83 ¹	c/t-lim(1:4) = 33.00 38.00 44.13				213.4	27.55(1)	213.360(4)	
	1.693	2	max	0.83 ¹	c/t-lim(1:4) = 33.00 38.00 53.37				219.9	27.55(1)	219.938(4)	
	2.257	2	max	0.83 ¹	c/t-lim(1:4) = 33.00 38.00 54.59				219.8	27.55(1)	219.808(4)	
	2.821	2	max	0.83 ¹	c/t-lim(1:4) = 33.00 38.00 44.98				212.2	27.55(1)	212.225(4)	
	3.386	2	max	0.83 ¹	c/t-lim(1:4) = 33.00 38.00 59.28				219.8	27.55(1)	219.789(4)	
	3.950	2	max	0.63 ¹	c/t-lim(1:4) = 43.50 50.11 73.09				282.3	27.55(1)	282.271(4)	
20004	0.000	2	max	0.83 ¹	c/t-lim(1:4) = 33.00 38.00 51.41				785.0	27.55(1)	784.997(4)	
	0.564	2	max	0.83 ¹	c/t-lim(1:4) = 33.00 38.00 58.42				263.9	27.55(1)	263.859(4)	
	1.129	2	max	0.83 ¹	c/t-lim(1:4) = 33.00 38.00 44.48				213.9	27.55(1)	213.855(4)	
	1.693	2	max	0.83 ¹	c/t-lim(1:4) = 33.00 38.00 53.22				220.0	27.55(1)	219.982(4)	
	2.257	2	max	0.83 ¹	c/t-lim(1:4) = 33.00 38.00 54.56				219.9	27.55(1)	219.913(4)	
	2.821	2	max	0.83 ¹	c/t-lim(1:4) = 33.00 38.00 45.06				212.4	27.55(1)	212.421(4)	
	3.386	2	max	0.83 ¹	c/t-lim(1:4) = 33.00 38.00 59.15				219.9	27.55(1)	219.888(4)	
	3.950	2	max	0.63 ¹	c/t-lim(1:4) = 43.53 50.14 73.13				282.6	27.55(1)	282.551(4)	
20005	0.000	2	max	0.66 ¹	c/t-lim(1:4) = 41.45 47.74 70.86				868.4	27.55(1)	868.400(4)	
	0.564	2	max	0.83 ¹	c/t-lim(1:4) = 33.00 38.00 57.96				266.0	27.55(1)	265.977(4)	
	1.129	2	max	0.83 ¹	c/t-lim(1:4) = 33.00 38.00 44.01				214.8	27.55(1)	214.785(4)	
	1.693	2	max	0.83 ¹	c/t-lim(1:4) = 33.00 38.00 53.61				221.6	27.55(1)	221.649(4)	
	2.257	2	max	0.83 ¹	c/t-lim(1:4) = 33.00 38.00 54.82				221.5	27.55(1)	221.487(4)	

Steel - Resistance of Cross Sections

Plate Slenderness c/t

Beam	x[m]	SNo	LC	Plate	σ_a	σ_e	ψ	k- σ	c[mm]	t[mm]	c/t	c/t-lim
20005	2.821	2	max	0.83 ¹	c/t-lim(1:4) = 33.00	38.00	45.10	213.9	27.55(1)	213.860(4)		
	3.386	2	max	0.83 ¹	c/t-lim(1:4) = 33.00	38.00	59.44	221.4	27.55(1)	221.374(4)		
	3.950	2	max	0.63 ¹	c/t-lim(1:4) = 43.94	50.62	73.59	282.7	27.55(1)	282.744(4)		
20006	0.000	2	max	0.64 ¹	c/t-lim(1:4) = 43.12	49.67	72.66	877.3	27.55(1)	877.298(4)		
	0.564	2	max	0.83 ¹	c/t-lim(1:4) = 33.00	38.00	60.17	291.5	27.55(1)	291.480(4)		
	1.129	2	max	0.83 ¹	c/t-lim(1:4) = 33.00	38.00	44.05	235.7	27.55(1)	235.724(4)		
	1.693	2	max	0.83 ¹	c/t-lim(1:4) = 33.00	38.00	55.76	244.1	27.55(1)	244.052(4)		
	2.257	2	max	0.83 ¹	c/t-lim(1:4) = 33.00	38.00	57.04	243.6	27.55(1)	243.564(4)		
	2.821	2	max	0.83 ¹	c/t-lim(1:4) = 33.00	38.00	45.73	234.9	27.55(1)	234.891(4)		
	3.386	2	max	0.83 ¹	c/t-lim(1:4) = 33.00	38.00	62.09	242.5	27.55(1)	242.479(4)		
	3.950	2	max	0.59 ¹	c/t-lim(1:4) = 46.74	53.84	76.88	302.3	27.55(1)	302.254(4)		
20007	0.000	2	max	0.74 ¹	c/t-lim(1:4) = 37.44	43.12	66.80	806.9	27.55(1)	806.883(4)		
	0.564	2	max	0.83 ¹	c/t-lim(1:4) = 33.00	38.00	60.40	287.1	27.55(1)	287.116(4)		
	1.129	2	max	0.83 ¹	c/t-lim(1:4) = 33.00	38.00	44.71	233.3	27.55(1)	233.340(4)		
	1.693	2	max	0.83 ¹	c/t-lim(1:4) = 33.00	38.00	55.12	240.5	27.55(1)	240.548(4)		
	2.257	2	max	0.83 ¹	c/t-lim(1:4) = 33.00	38.00	56.57	240.2	27.55(1)	240.205(4)		
	2.821	2	max	0.83 ¹	c/t-lim(1:4) = 33.00	38.00	45.69	231.8	27.55(1)	231.777(4)		
	3.386	2	max	0.83 ¹	c/t-lim(1:4) = 33.00	38.00	61.51	239.3	27.55(1)	239.328(4)		
	3.950	2	max	0.59 ¹	c/t-lim(1:4) = 46.59	53.67	76.70	325.6	27.55(1)	325.573(4)		
20008	0.000	2	max	0.63 ¹	c/t-lim(1:4) = 43.86	50.52	73.50	927.6	27.55(1)	927.620(4)		
	0.564	2	max	0.83 ¹	c/t-lim(1:4) = 33.00	38.00	57.90	284.0	27.55(1)	284.048(4)		
	1.129	2	max	0.83 ¹	c/t-lim(1:4) = 33.00	38.00	42.74	227.8	27.55(1)	227.817(4)		
	1.693	2	max	0.83 ¹	c/t-lim(1:4) = 33.00	38.00	56.43	237.8	27.55(1)	237.811(4)		
	2.257	2	max	0.83 ¹	c/t-lim(1:4) = 33.00	38.00	57.03	237.1	27.55(1)	237.136(4)		
	2.821	2	max	0.83 ¹	c/t-lim(1:4) = 33.00	38.00	45.61	228.6	27.55(1)	228.613(4)		
	3.386	2	max	0.83 ¹	c/t-lim(1:4) = 33.00	38.00	61.76	236.2	27.55(1)	236.174(4)		
	3.950	2	max	0.62 ¹	c/t-lim(1:4) = 44.15	50.86	73.83	348.8	27.55(1)	348.810(4)		
20009	0.000	2	max	0.83 ¹	c/t-lim(1:4) = 33.00	38.00	62.05	424.3	27.55(1)	424.324(4)		
	0.564	2	max	0.83 ¹	c/t-lim(1:4) = 33.00	38.00	62.33	419.5	27.55(1)	419.465(4)		
	1.129	2	max	0.82 ¹	c/t-lim(1:4) = 33.74	38.85	63.39	654.8	27.55(1)	654.776(4)		
	1.693	2	max	0.83 ¹	c/t-lim(1:4) = 33.00	38.00	46.90	368.0	27.55(1)	367.960(4)		
	2.257	2	max	0.83 ¹	c/t-lim(1:4) = 33.00	38.00	59.74	375.6	27.55(1)	375.639(4)		
	2.821	2	max	0.83 ¹	c/t-lim(1:4) = 33.00	38.00	54.69	398.8	27.55(1)	398.808(4)		
	3.386	2	max	0.83 ¹	c/t-lim(1:4) = 33.00	38.00	49.83	705.1	27.55(1)	705.135(4)		
	3.950	2	max	0.55 ¹	c/t-lim(1:4) = 49.74	57.31	80.71	568.7	27.55(1)	568.684(4)		
20010	0.000	2	max	0.83 ¹	c/t-lim(1:4) = 33.00	38.00	42.00	357.6	27.55(1)	357.621(4)		
	0.564	2	max	0.83 ¹	c/t-lim(1:4) = 33.00	38.00	48.17	286.1	27.55(1)	286.140(4)		
	1.129	2	max	0.83 ¹	c/t-lim(1:4) = 33.00	38.00	53.37	289.1	27.55(1)	289.067(4)		
	1.693	2	max	0.83 ¹	c/t-lim(1:4) = 33.00	38.00	57.81	289.6	27.55(1)	289.645(4)		
	2.257	2	max	0.83 ¹	c/t-lim(1:4) = 33.00	38.00	62.73	361.2	27.55(1)	361.204(4)		
	2.821	2	max	0.83 ¹	c/t-lim(1:4) = 33.00	38.00	61.29	428.3	27.55(1)	428.343(4)		
	3.386	2	max	0.81 ¹	c/t-lim(1:4) = 34.13	39.30	63.73	423.2	27.55(1)	423.209(4)		
	3.950	2	max	0.75 ¹	c/t-lim(1:4) = 36.49	42.02	65.89	417.7	27.55(1)	417.724(4)		
20011	0.000	2	max	0.83 ¹	c/t-lim(1:4) = 33.00	38.00	42.00	346.0	27.55(1)	346.016(4)		
	0.564	2	max	0.83 ¹	c/t-lim(1:4) = 33.00	38.00	48.65	267.5	27.55(1)	267.500(4)		
	1.129	2	max	0.83 ¹	c/t-lim(1:4) = 33.00	38.00	54.20	270.4	27.55(1)	270.437(4)		
	1.693	2	max	0.83 ¹	c/t-lim(1:4) = 33.00	38.00	58.90	271.0	27.55(1)	270.960(4)		
	2.257	2	max	0.83 ¹	c/t-lim(1:4) = 33.00	38.00	62.03	353.5	27.55(1)	353.526(4)		
	2.821	2	max	0.83 ¹	c/t-lim(1:4) = 33.00	38.00	47.17	506.1	27.55(1)	506.072(4)		
	3.386	2	max	0.76 ¹	c/t-lim(1:4) = 36.13	41.61	65.56	400.4	27.55(1)	400.400(4)		
	3.950	2	max	0.71 ¹	c/t-lim(1:4) = 38.53	44.38	67.86	395.2	27.55(1)	395.172(4)		
20012	0.000	2	max	0.83 ¹	c/t-lim(1:4) = 33.00	38.00	42.00	334.4	27.55(1)	334.441(4)		
	0.564	2	max	0.83 ¹	c/t-lim(1:4) = 33.00	38.00	48.16	259.7	27.55(1)	259.709(4)		
	1.129	2	max	0.83 ¹	c/t-lim(1:4) = 33.00	38.00	53.37	262.6	27.55(1)	262.632(4)		
	1.693	2	max	0.83 ¹	c/t-lim(1:4) = 33.00	38.00	57.84	263.4	27.55(1)	263.414(4)		
	2.257	2	max	0.83 ¹	c/t-lim(1:4) = 33.00	38.00	61.41	342.4	27.55(1)	342.414(4)		
	2.821	2	max	0.83 ¹	c/t-lim(1:4) = 33.00	38.00	61.91	463.2	27.55(1)	463.223(4)		
	3.386	2	max	0.79 ¹	c/t-lim(1:4) = 34.92	40.22	64.45	394.3	27.55(1)	394.334(4)		

Steel - Resistance of Cross Sections

Plate Slenderness c/t

Beam	x[m]	SNo	LC	Plate	σ_a	σ_e	ψ	k- σ	c[mm]	t[mm]	c/t	c/t-lim
20012	3.950	2	max	0.74 ¹	c/t-lim(1:4) = 37.34	43.00	66.70	452.7	27.55(1)	452.674(4)		
20013	0.000	2	max	0.83 ¹	c/t-lim(1:4) = 33.00	38.00	42.00	344.9	27.55(1)	344.885(4)		
	0.564	2	max	0.83 ¹	c/t-lim(1:4) = 33.00	38.00	47.64	276.3	27.55(1)	276.330(4)		
	1.129	2	max	0.83 ¹	c/t-lim(1:4) = 33.00	38.00	52.46	279.2	27.55(1)	279.214(4)		
	1.693	2	max	0.83 ¹	c/t-lim(1:4) = 33.00	38.00	56.63	280.1	27.55(1)	280.070(4)		
	2.257	2	max	0.83 ¹	c/t-lim(1:4) = 33.00	38.00	62.51	352.4	27.55(1)	352.433(4)		
	2.821	2	max	0.83 ¹	c/t-lim(1:4) = 33.00	38.00	60.14	487.7	27.55(1)	487.729(4)		
	3.386	2	max	0.83 ¹	c/t-lim(1:4) = 33.00	38.00	62.50	482.5	27.55(1)	482.459(4)		
	3.950	2	max	0.79 ¹	c/t-lim(1:4) = 35.09	40.40	64.59	476.8	27.55(1)	476.764(4)		
30001	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	45.58	132.6	20.03(1)	132.579(4)		
	0.775	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	43.94	215.6	20.03(1)	215.576(4)		
	1.550	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	54.70	231.6	20.03(1)	231.630(4)		
30002	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	57.20	259.1	20.03(1)	259.118(4)		
	0.700	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	45.04	214.5	20.03(1)	214.507(4)		
	1.400	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	52.12	185.6	20.03(1)	185.627(4)		
30003	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	52.65	191.3	20.03(1)	191.337(4)		
	0.700	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	53.85	167.8	20.03(1)	167.761(4)		
	1.400	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	60.95	147.9	20.03(1)	147.927(4)		
30004	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	59.81	142.0	20.03(1)	142.042(4)		
	0.400	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	49.20	101.3	20.03(1)	101.267(4)		
30005	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	49.14	101.2	20.03(1)	101.234(4)		
	1.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	61.04	170.8	20.03(1)	170.800(4)		
30006	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	61.88	175.7	20.03(1)	175.731(4)		
	0.700	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	50.40	170.4	20.03(1)	170.402(4)		
	1.400	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	50.67	168.5	20.03(1)	168.510(4)		
30007	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	50.76	169.5	20.03(1)	169.544(4)		
	0.700	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	51.25	166.6	20.03(1)	166.572(4)		
	1.400	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	61.97	166.1	20.03(1)	166.132(4)		
30008	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	61.61	164.2	20.03(1)	164.166(4)		
	0.900	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	50.26	98.59	20.03(1)	98.590(4)		
30009	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	50.29	98.59	20.03(1)	98.593(4)		
	0.500	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	58.63	134.1	20.03(1)	134.082(4)		
30010	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	60.57	144.1	20.03(1)	144.058(4)		
	0.700	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	54.05	164.2	20.03(1)	164.226(4)		
	1.400	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	50.13	196.3	20.03(1)	196.328(4)		
30011	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	49.87	192.8	20.03(1)	192.783(4)		
	0.700	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	43.17	249.2	20.03(1)	249.156(4)		
	1.400	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	53.99	743.0	20.03(1)	743.034(4)		
30012	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	59.13	327.6	20.03(1)	327.648(4)		
	0.700	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	56.87	444.8	20.03(1)	444.841(4)		
	1.400	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	59.78	243.2	20.03(1)	243.210(4)		
30013	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	43.12	315.8	20.03(1)	315.823(4)		
	0.150	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.95	211.4	20.03(1)	211.402(4)		
30014	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	46.91	214.7	20.03(1)	214.705(4)		
	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	45.34	319.5	20.03(1)	319.452(4)		
30015	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	61.95	307.5	20.03(1)	307.503(4)		
	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	43.65	186.0	20.03(1)	185.983(4)		
30016	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	44.53	235.4	20.03(1)	235.353(4)		
	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	45.83	195.8	20.03(1)	195.782(4)		
30017	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	44.47	153.8	20.03(1)	153.788(4)		
	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	43.33	158.3	20.03(1)	158.304(4)		
30018	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	60.64	251.7	20.03(1)	251.651(4)		
	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	54.29	232.1	20.03(1)	232.103(4)		
30019	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	44.96	158.6	20.03(1)	158.619(4)		
	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	43.29	146.9	20.03(1)	146.914(4)		
30020	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	44.22	192.8	20.03(1)	192.840(4)		
	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	46.59	185.3	20.03(1)	185.322(4)		
30021	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	45.31	154.6	20.03(1)	154.636(4)		

Steel - Resistance of Cross Sections

Plate Slenderness c/t

Beam	x[m]	SNo	LC	Plate	σ_a	σ_e	ψ	k- σ	c[mm]	t[mm]	c/t	c/t-lim
30021	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	44.66	173.7	20.03(1)	173.689(4)		
30022	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	46.33	227.8	20.03(1)	227.753(4)		
	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	57.11	372.1	20.03(1)	372.140(4)		
30023	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	60.73	400.9	20.03(1)	400.856(4)		
	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	44.61	261.8	20.03(1)	261.806(4)		
30024	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	44.87	137.8	20.03(1)	137.802(4)		
	0.500	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	44.08	112.4	20.03(1)	112.424(4)		
30025	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.54	118.8	20.03(1)	118.797(4)		
	0.700	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.81	115.5	20.03(1)	115.544(4)		
	1.400	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.97	110.5	20.03(1)	110.473(4)		
30026	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.79	99.67	20.03(1)	99.673(4)		
	0.700	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.91	100.2	20.03(1)	100.176(4)		
	1.400	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.93	99.46	20.03(1)	99.463(4)		
30027	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.80	92.10	20.03(1)	92.099(4)		
	0.700	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.77	92.15	20.03(1)	92.155(4)		
	1.400	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.67	91.37	20.03(1)	91.372(4)		
30028	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.71	94.27	20.03(1)	94.271(4)		
	0.700	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.55	95.61	20.03(1)	95.608(4)		
	1.400	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.32	95.96	20.03(1)	95.957(4)		
30029	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.66	79.67	20.03(1)	79.671(4)		
	0.775	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.91	122.7	20.03(1)	122.664(4)		
	1.550	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.34	142.5	20.03(1)	142.506(4)		
30030	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.76	215.7	20.03(1)	215.742(4)		
	0.700	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	44.56	427.5	20.03(1)	427.476(4)		
	1.400	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.10	136.3	20.03(1)	136.287(4)		
30031	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.07	117.8	20.03(1)	117.770(4)		
	0.700	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.35	125.7	20.03(1)	125.742(4)		
	1.400	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.66	132.0	20.03(1)	132.050(4)		
30032	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.15	74.31	20.03(1)	74.310(4)		
	0.775	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.21	113.6	20.03(1)	113.648(4)		
	1.550	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.09	132.7	20.03(1)	132.739(4)		
30033	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.20	200.8	20.03(1)	200.848(4)		
	0.700	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.57	439.9	20.03(1)	439.919(4)		
	1.400	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.14	134.8	20.03(1)	134.829(4)		
30034	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.09	110.8	20.03(1)	110.810(4)		
	0.700	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.08	112.8	20.03(1)	112.823(4)		
	1.400	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.05	113.0	20.03(1)	112.962(4)		
30035	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.04	99.06	20.03(1)	99.063(4)		
	0.700	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.10	98.93	20.03(1)	98.930(4)		
	1.400	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.15	97.62	20.03(1)	97.622(4)		
30036	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.13	90.04	20.03(1)	90.040(4)		
	0.700	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.14	89.88	20.03(1)	89.879(4)		
	1.400	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.14	89.00	20.03(1)	88.999(4)		
30037	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.12	83.07	20.03(1)	83.069(4)		
	0.700	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.11	83.30	20.03(1)	83.296(4)		
	1.400	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.08	83.06	20.03(1)	83.060(4)		
30038	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.09	84.40	20.03(1)	84.396(4)		
	0.700	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.05	83.98	20.03(1)	83.976(4)		
	1.400	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.00	83.15	20.03(1)	83.153(4)		
30039	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.00	89.66	20.03(1)	89.665(4)		
	0.700	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.06	90.90	20.03(1)	90.903(4)		
	1.400	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.12	91.52	20.03(1)	91.524(4)		
30040	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.19	113.8	20.03(1)	113.760(4)		
	0.700	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.21	107.5	20.03(1)	107.533(4)		
	1.400	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.22	101.2	20.03(1)	101.217(4)		
30041	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.32	145.5	20.03(1)	145.457(4)		
	0.700	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.37	125.7	20.03(1)	125.668(4)		
	1.400	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.22	83.45	20.03(1)	83.450(4)		

Steel - Resistance of Cross Sections

Plate Slenderness c/t

Beam	x[m]	SNo	LC	Plate	σ_a	σ_e	ψ	k- σ	c[mm]	t[mm]	c/t	c/t-lim
30042	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.75	176.9	20.03(1)	176.850(4)		
	0.150	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.30	150.6	20.03(1)	150.596(4)		
30043	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.06	149.5	20.03(1)	149.506(4)		
	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.43	196.6	20.03(1)	196.620(4)		
30044	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.01	89.82	20.03(1)	89.820(4)		
	0.700	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.01	91.03	20.03(1)	91.034(4)		
	1.400	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.00	91.62	20.03(1)	91.621(4)		
30045	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.00	113.9	20.03(1)	113.929(4)		
	0.700	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.00	107.3	20.03(1)	107.329(4)		
	1.400	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.00	100.8	20.03(1)	100.776(4)		
30046	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.01	145.5	20.03(1)	145.540(4)		
	0.700	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.02	126.4	20.03(1)	126.369(4)		
	1.400	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.01	83.89	20.03(1)	83.895(4)		
30047	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.10	171.1	20.03(1)	171.132(4)		
	0.150	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.23	146.4	20.03(1)	146.448(4)		
30048	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.25	145.6	20.03(1)	145.586(4)		
	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.85	189.1	20.03(1)	189.120(4)		
30049	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.46	132.1	20.03(1)	132.149(4)		
	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	43.06	153.2	20.03(1)	153.159(4)		
30050	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.70	119.9	20.03(1)	119.851(4)		
	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	43.20	119.0	20.03(1)	118.951(4)		
30051	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	43.03	104.9	20.03(1)	104.908(4)		
	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	43.33	106.9	20.03(1)	106.864(4)		
30052	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	43.14	99.20	20.03(1)	99.202(4)		
	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	43.22	100.8	20.03(1)	100.785(4)		
30053	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	43.25	100.8	20.03(1)	100.812(4)		
	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	43.35	100.2	20.03(1)	100.204(4)		
30054	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	43.29	97.39	20.03(1)	97.392(4)		
	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	43.09	98.89	20.03(1)	98.889(4)		
30055	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	43.03	100.4	20.03(1)	100.430(4)		
	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.66	102.3	20.03(1)	102.325(4)		
30056	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.83	117.6	20.03(1)	117.552(4)		
	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.42	108.0	20.03(1)	107.957(4)		
30057	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.77	149.5	20.03(1)	149.488(4)		
	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.24	117.9	20.03(1)	117.916(4)		
30058	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	43.31	134.5	20.03(1)	134.479(4)		
	0.500	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.35	72.73	20.03(1)	72.732(4)		
30059	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.10	74.12	20.03(1)	74.123(4)		
	0.775	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.14	113.3	20.03(1)	113.326(4)		
	1.550	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.07	132.4	20.03(1)	132.402(4)		
30060	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.15	200.0	20.03(1)	200.040(4)		
	0.700	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.27	440.3	20.03(1)	440.311(4)		
	1.400	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.15	135.5	20.03(1)	135.489(4)		
30061	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.10	110.6	20.03(1)	110.634(4)		
	0.700	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.05	112.0	20.03(1)	112.009(4)		
	1.400	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.01	111.6	20.03(1)	111.554(4)		
30062	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.00	97.60	20.03(1)	97.596(4)		
	0.700	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.03	97.74	20.03(1)	97.744(4)		
	1.400	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.07	96.79	20.03(1)	96.786(4)		
30063	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.06	89.47	20.03(1)	89.470(4)		
	0.700	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.06	89.23	20.03(1)	89.230(4)		
	1.400	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.06	88.30	20.03(1)	88.305(4)		
30064	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.05	82.49	20.03(1)	82.488(4)		
	0.700	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.04	82.76	20.03(1)	82.757(4)		
	1.400	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.02	82.58	20.03(1)	82.585(4)		
30065	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.03	83.77	20.03(1)	83.775(4)		
	0.700	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.00	83.19	20.03(1)	83.193(4)		
	1.400	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.02	82.27	20.03(1)	82.269(4)		

Steel - Resistance of Cross Sections

Plate Slenderness c/t

Beam	x[m]	SNo	LC	Plate	σ_a	σ_e	ψ	k- σ	c[mm]	t[mm]	c/t	c/t-lim
30066	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.02	88.87	20.03(1)	88.868(4)		
	0.700	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.05	90.27	20.03(1)	90.268(4)		
	1.400	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.08	91.10	20.03(1)	91.097(4)		
30067	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.13	113.5	20.03(1)	113.539(4)		
	0.700	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.13	107.2	20.03(1)	107.228(4)		
	1.400	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.13	100.9	20.03(1)	100.872(4)		
30068	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.19	145.0	20.03(1)	145.047(4)		
	0.700	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.21	125.1	20.03(1)	125.144(4)		
	1.400	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.12	83.18	20.03(1)	83.182(4)		
30069	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.17	175.8	20.03(1)	175.773(4)		
	0.150	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.59	149.3	20.03(1)	149.274(4)		
30070	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.11	148.1	20.03(1)	148.092(4)		
	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.13	192.8	20.03(1)	192.801(4)		
30071	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.01	131.7	20.03(1)	131.750(4)		
	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.87	150.8	20.03(1)	150.831(4)		
30072	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.66	116.0	20.03(1)	116.042(4)		
	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.95	118.1	20.03(1)	118.077(4)		
30073	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.63	104.5	20.03(1)	104.483(4)		
	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.37	104.2	20.03(1)	104.178(4)		
30074	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.47	97.01	20.03(1)	97.006(4)		
	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	43.05	99.35	20.03(1)	99.354(4)		
30075	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.03	74.68	20.03(1)	74.684(4)		
	0.775	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.05	114.4	20.03(1)	114.351(4)		
	1.550	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.04	133.4	20.03(1)	133.355(4)		
30076	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.10	201.2	20.03(1)	201.195(4)		
	0.700	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.25	434.9	20.03(1)	434.904(4)		
	1.400	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.04	133.1	20.03(1)	133.113(4)		
30077	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.03	109.6	20.03(1)	109.616(4)		
	0.700	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.03	111.5	20.03(1)	111.473(4)		
	1.400	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.09	111.6	20.03(1)	111.585(4)		
30078	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.07	98.12	20.03(1)	98.117(4)		
	0.700	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.06	98.12	20.03(1)	98.122(4)		
	1.400	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.04	96.99	20.03(1)	96.990(4)		
30079	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.03	89.38	20.03(1)	89.385(4)		
	0.700	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.03	89.00	20.03(1)	89.001(4)		
	1.400	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.02	87.95	20.03(1)	87.955(4)		
30080	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.02	82.30	20.03(1)	82.295(4)		
	0.700	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.02	82.60	20.03(1)	82.603(4)		
	1.400	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.01	82.49	20.03(1)	82.491(4)		
30081	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.01	84.07	20.03(1)	84.067(4)		
	0.700	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.00	83.70	20.03(1)	83.703(4)		
	1.400	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.00	82.95	20.03(1)	82.953(4)		
30082	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.01	89.36	20.03(1)	89.361(4)		
	0.700	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.02	90.51	20.03(1)	90.508(4)		
	1.400	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.04	91.06	20.03(1)	91.056(4)		
30083	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.06	113.2	20.03(1)	113.180(4)		
	0.700	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.07	106.7	20.03(1)	106.724(4)		
	1.400	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.07	100.3	20.03(1)	100.308(4)		
30084	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.03	145.2	20.03(1)	145.197(4)		
	0.700	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.04	126.0	20.03(1)	126.026(4)		
	1.400	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.02	83.67	20.03(1)	83.668(4)		
30085	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.43	173.3	20.03(1)	173.257(4)		
	0.150	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.49	148.1	20.03(1)	148.068(4)		
30086	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.52	147.2	20.03(1)	147.152(4)		
	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.30	191.9	20.03(1)	191.878(4)		
30087	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.05	132.6	20.03(1)	132.629(4)		
	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.72	153.6	20.03(1)	153.587(4)		
30088	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.60	117.6	20.03(1)	117.579(4)		

Steel - Resistance of Cross Sections

Plate Slenderness c/t

Beam	x[m]	SNo	LC	Plate	σ_a	σ_e	ψ	k- σ	c[mm]	t[mm]	c/t	c/t-lim
30088	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.57	117.1	20.03(1)	117.057(4)		
30089	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.26	103.5	20.03(1)	103.549(4)		
	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.50	104.9	20.03(1)	104.921(4)		
30090	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.57	97.59	20.03(1)	97.594(4)		
	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.99	99.62	20.03(1)	99.625(4)		
30091	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	43.02	99.64	20.03(1)	99.645(4)		
	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.87	98.67	20.03(1)	98.667(4)		
30092	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.74	95.28	20.03(1)	95.280(4)		
	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.10	96.71	20.03(1)	96.712(4)		
30093	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.08	98.12	20.03(1)	98.119(4)		
	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.30	99.86	20.03(1)	99.863(4)		
30094	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.27	117.7	20.03(1)	117.712(4)		
	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.09	108.3	20.03(1)	108.297(4)		
30095	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.16	150.6	20.03(1)	150.551(4)		
	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.11	118.6	20.03(1)	118.552(4)		
30096	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	43.41	134.4	20.03(1)	134.359(4)		
	0.500	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.31	72.48	20.03(1)	72.483(4)		
30097	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.00	75.01	20.03(1)	75.006(4)		
	0.775	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.01	114.9	20.03(1)	114.863(4)		
	1.550	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.00	134.0	20.03(1)	133.959(4)		
30098	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.01	201.9	20.03(1)	201.924(4)		
	0.700	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.00	432.0	20.03(1)	431.995(4)		
	1.400	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.01	133.0	20.03(1)	132.983(4)		
30099	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.01	109.9	20.03(1)	109.902(4)		
	0.700	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.00	111.7	20.03(1)	111.738(4)		
	1.400	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.02	111.8	20.03(1)	111.789(4)		
30100	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.01	98.40	20.03(1)	98.397(4)		
	0.700	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.01	98.54	20.03(1)	98.544(4)		
	1.400	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.01	97.53	20.03(1)	97.530(4)		
30101	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.01	90.02	20.03(1)	90.016(4)		
	0.700	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.01	89.63	20.03(1)	89.626(4)		
	1.400	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.01	88.54	20.03(1)	88.542(4)		
30102	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.01	82.85	20.03(1)	82.854(4)		
	0.700	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.01	83.22	20.03(1)	83.223(4)		
	1.400	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.01	83.14	20.03(1)	83.139(4)		
30103	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.01	84.62	20.03(1)	84.616(4)		
	0.700	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.01	84.17	20.03(1)	84.167(4)		
	1.400	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.01	83.31	20.03(1)	83.307(4)		
30104	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.03	74.43	20.03(1)	74.434(4)		
	0.775	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.05	113.9	20.03(1)	113.937(4)		
	1.550	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.04	132.9	20.03(1)	132.936(4)		
30105	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.10	201.4	20.03(1)	201.424(4)		
	0.700	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.19	439.3	20.03(1)	439.333(4)		
	1.400	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.05	132.7	20.03(1)	132.715(4)		
30106	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.03	109.4	20.03(1)	109.388(4)		
	0.700	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.01	111.2	20.03(1)	111.184(4)		
	1.400	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.06	111.3	20.03(1)	111.259(4)		
30107	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.05	97.81	20.03(1)	97.810(4)		
	0.700	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.03	97.89	20.03(1)	97.885(4)		
	1.400	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.02	96.83	20.03(1)	96.832(4)		
30108	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.02	89.38	20.03(1)	89.384(4)		
	0.700	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.01	89.03	20.03(1)	89.031(4)		
	1.400	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.01	88.01	20.03(1)	88.006(4)		
30109	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.01	82.38	20.03(1)	82.384(4)		
	0.700	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.01	82.70	20.03(1)	82.696(4)		
	1.400	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.00	82.58	20.03(1)	82.577(4)		
30110	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.00	84.07	20.03(1)	84.070(4)		
	0.700	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.00	83.65	20.03(1)	83.654(4)		

Steel - Resistance of Cross Sections

Plate Slenderness c/t

Beam	x[m]	SNo	LC	Plate	σ_a	σ_e	ψ	k- σ	c[mm]	t[mm]	c/t	c/t-lim
30110	1.400	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.00	82.85	20.03(1)	82.848(4)		
30111	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.00	89.33	20.03(1)	89.334(4)		
	0.700	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.01	90.50	20.03(1)	90.497(4)		
	1.400	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.03	91.06	20.03(1)	91.061(4)		
30112	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.05	113.2	20.03(1)	113.242(4)		
	0.700	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.06	106.7	20.03(1)	106.721(4)		
	1.400	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.07	100.3	20.03(1)	100.262(4)		
30113	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.06	144.6	20.03(1)	144.608(4)		
	0.700	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.06	125.5	20.03(1)	125.477(4)		
	1.400	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.03	83.28	20.03(1)	83.277(4)		
30114	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.22	169.8	20.03(1)	169.849(4)		
	0.150	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.49	146.6	20.03(1)	146.636(4)		
30115	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.50	145.7	20.03(1)	145.746(4)		
	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.05	188.0	20.03(1)	187.969(4)		
30116	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.08	130.9	20.03(1)	130.863(4)		
	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.28	150.6	20.03(1)	150.607(4)		
30117	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.35	118.8	20.03(1)	118.756(4)		
	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.44	118.2	20.03(1)	118.183(4)		
30118	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.24	104.1	20.03(1)	104.120(4)		
	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.63	105.8	20.03(1)	105.787(4)		
30119	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.72	98.40	20.03(1)	98.401(4)		
	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	43.30	100.3	20.03(1)	100.265(4)		
30120	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	43.32	100.3	20.03(1)	100.284(4)		
	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	43.04	99.49	20.03(1)	99.494(4)		
30121	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.86	96.35	20.03(1)	96.349(4)		
	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.20	97.67	20.03(1)	97.670(4)		
30122	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.09	99.15	20.03(1)	99.146(4)		
	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.04	101.1	20.03(1)	101.065(4)		
30123	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.09	115.8	20.03(1)	115.822(4)		
	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.18	106.7	20.03(1)	106.724(4)		
30124	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.23	147.6	20.03(1)	147.569(4)		
	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.02	116.6	20.03(1)	116.649(4)		
30125	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.84	133.1	20.03(1)	133.051(4)		
	0.500	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.21	72.12	20.03(1)	72.122(4)		
30126	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.36	101.5	20.03(1)	101.544(4)		
	0.700	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.12	100.9	20.03(1)	100.864(4)		
	1.400	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.57	99.40	20.03(1)	99.402(4)		
30127	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.83	120.1	20.03(1)	120.109(4)		
	0.700	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	43.20	114.7	20.03(1)	114.724(4)		
	1.400	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	43.42	108.5	20.03(1)	108.542(4)		
30128	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.73	153.2	20.03(1)	153.160(4)		
	0.700	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	43.05	134.6	20.03(1)	134.615(4)		
	1.400	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.68	88.88	20.03(1)	88.879(4)		
30129	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	47.61	178.7	20.03(1)	178.744(4)		
	0.150	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	44.56	161.6	20.03(1)	161.560(4)		
30130	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	44.07	159.7	20.03(1)	159.682(4)		
	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	45.98	220.1	20.03(1)	220.129(4)		
30131	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	43.56	148.5	20.03(1)	148.534(4)		
	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	46.88	176.5	20.03(1)	176.535(4)		
30132	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	46.83	147.3	20.03(1)	147.264(4)		
	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	47.67	141.7	20.03(1)	141.681(4)		
30133	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	45.65	119.3	20.03(1)	119.253(4)		
	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	46.04	125.2	20.03(1)	125.175(4)		
30134	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	45.85	115.6	20.03(1)	115.621(4)		
	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	45.52	116.2	20.03(1)	116.230(4)		
30135	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	45.14	116.0	20.03(1)	116.003(4)		
	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	45.78	116.8	20.03(1)	116.760(4)		
30136	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	45.88	110.5	20.03(1)	110.452(4)		

Steel - Resistance of Cross Sections

Plate Slenderness c/t

Beam	x[m]	SNo	LC	Plate	σ_a	σ_e	ψ	k- σ	c[mm]	t[mm]	c/t	c/t-lim
30136	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	45.80	110.0	20.03(1)	109.980(4)		
30137	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	45.51	112.8	20.03(1)	112.772(4)		
	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	44.83	117.6	20.03(1)	117.627(4)		
30138	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	45.04	129.4	20.03(1)	129.415(4)		
	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.76	117.8	20.03(1)	117.824(4)		
30139	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	43.66	165.1	20.03(1)	165.120(4)		
	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	43.92	125.8	20.03(1)	125.756(4)		
30140	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	53.20	142.5	20.03(1)	142.517(4)		
	0.500	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	45.54	78.71	20.03(1)	78.707(4)		
30141	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	43.10	99.41	20.03(1)	99.408(4)		
	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.83	98.18	20.03(1)	98.184(4)		
30142	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.64	94.63	20.03(1)	94.633(4)		
	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.18	97.11	20.03(1)	97.112(4)		
30143	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.35	98.23	20.03(1)	98.227(4)		
	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.41	98.89	20.03(1)	98.889(4)		
30144	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.47	116.5	20.03(1)	116.527(4)		
	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.03	107.2	20.03(1)	107.196(4)		
30145	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.22	150.4	20.03(1)	150.394(4)		
	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.00	118.4	20.03(1)	118.440(4)		
30146	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	43.87	133.9	20.03(1)	133.873(4)		
	0.500	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.79	72.16	20.03(1)	72.159(4)		
30147	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.20	133.3	20.03(1)	133.322(4)		
	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.12	152.2	20.03(1)	152.212(4)		
30148	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.11	117.7	20.03(1)	117.701(4)		
	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.34	119.3	20.03(1)	119.293(4)		
30149	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.22	105.2	20.03(1)	105.176(4)		
	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.74	105.7	20.03(1)	105.705(4)		
30150	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.83	98.16	20.03(1)	98.159(4)		
	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	43.44	100.5	20.03(1)	100.456(4)		
30151	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	43.47	100.5	20.03(1)	100.481(4)		
	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	43.17	99.32	20.03(1)	99.318(4)		
30152	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.97	95.66	20.03(1)	95.662(4)		
	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.22	97.79	20.03(1)	97.785(4)		
30153	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.06	98.84	20.03(1)	98.839(4)		
	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.03	99.73	20.03(1)	99.729(4)		
30154	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.01	116.9	20.03(1)	116.950(4)		
	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.05	107.8	20.03(1)	107.849(4)		
30155	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.05	151.4	20.03(1)	151.447(4)		
	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.03	118.7	20.03(1)	118.707(4)		
30156	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	44.33	133.8	20.03(1)	133.841(4)		
	0.500	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.74	72.43	20.03(1)	72.431(4)		
30157	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.56	77.30	20.03(1)	77.299(4)		
	0.775	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.75	118.9	20.03(1)	118.865(4)		
	1.550	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.24	138.0	20.03(1)	137.999(4)		
30158	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.55	211.6	20.03(1)	211.642(4)		
	0.700	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	44.92	439.8	20.03(1)	439.782(4)		
	1.400	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.06	134.2	20.03(1)	134.193(4)		
30159	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.04	114.3	20.03(1)	114.350(4)		
	0.700	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.26	121.3	20.03(1)	121.308(4)		
	1.400	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.50	126.7	20.03(1)	126.654(4)		
30160	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.40	113.2	20.03(1)	113.197(4)		
	0.700	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.67	110.3	20.03(1)	110.253(4)		
	1.400	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.83	105.8	20.03(1)	105.766(4)		
30161	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.68	95.23	20.03(1)	95.227(4)		
	0.700	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.78	95.50	20.03(1)	95.501(4)		
	1.400	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.80	94.80	20.03(1)	94.804(4)		
30162	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.68	87.57	20.03(1)	87.569(4)		
	0.700	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.65	87.60	20.03(1)	87.597(4)		

Steel - Resistance of Cross Sections

Plate Slenderness c/t

Beam	x[m]	SNo	LC	Plate	σ -a	σ -e	ψ	k- σ	c[mm]	t[mm]	c/t	c/t-lim
30162	1.400	3	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 42.55 86.99				20.03(1)	86.994(4)		
30163	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 42.58 89.61				20.03(1)	89.611(4)		
	0.700	3	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 42.43 90.68				20.03(1)	90.676(4)		
	1.400	3	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 42.21 90.99				20.03(1)	90.987(4)		
30164	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 42.24 96.37				20.03(1)	96.368(4)		
	0.700	3	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 42.16 95.81				20.03(1)	95.814(4)		
	1.400	3	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 42.52 94.59				20.03(1)	94.594(4)		
30165	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 42.77 114.6				20.03(1)	114.582(4)		
	0.700	3	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 43.05 109.3				20.03(1)	109.277(4)		
	1.400	3	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 43.20 103.5				20.03(1)	103.513(4)		
30166	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 42.53 147.3				20.03(1)	147.337(4)		
	0.700	3	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 42.80 129.6				20.03(1)	129.629(4)		
	1.400	3	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 42.51 85.47				20.03(1)	85.470(4)		
30167	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 46.83 166.8				20.03(1)	166.791(4)		
	0.150	3	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 43.65 155.7				20.03(1)	155.724(4)		
30168	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 44.55 155.0				20.03(1)	154.969(4)		
	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 47.25 212.1				20.03(1)	212.064(4)		
30169	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 42.26 141.3				20.03(1)	141.309(4)		
	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 44.34 166.3				20.03(1)	166.272(4)		
30170	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 46.57 139.3				20.03(1)	139.342(4)		
	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 47.13 133.9				20.03(1)	133.859(4)		
30171	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 44.04 112.4				20.03(1)	112.377(4)		
	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 44.37 118.0				20.03(1)	117.974(4)		
30172	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 45.54 109.3				20.03(1)	109.305(4)		
	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 45.30 110.0				20.03(1)	109.991(4)		
30173	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 43.74 109.1				20.03(1)	109.103(4)		
	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 44.27 109.7				20.03(1)	109.684(4)		
30174	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 45.57 104.8				20.03(1)	104.769(4)		
	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 45.44 104.3				20.03(1)	104.317(4)		
30175	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 43.97 106.2				20.03(1)	106.239(4)		
	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 43.39 110.7				20.03(1)	110.733(4)		
30176	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 45.02 123.4				20.03(1)	123.387(4)		
	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 43.33 112.8				20.03(1)	112.750(4)		
30177	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 42.51 155.8				20.03(1)	155.793(4)		
	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 43.33 119.6				20.03(1)	119.575(4)		
30178	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 57.71 138.2				20.03(1)	138.239(4)		
	0.500	3	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 45.72 75.63				20.03(1)	75.634(4)		
30179	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 45.58 132.7				20.03(1)	132.743(4)		
	0.775	3	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 44.05 217.4				20.03(1)	217.365(4)		
	1.550	3	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 60.12 254.6				20.03(1)	254.565(4)		
30180	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 57.59 262.0				20.03(1)	261.974(4)		
	0.700	3	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 44.99 216.9				20.03(1)	216.942(4)		
	1.400	3	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 52.60 187.2				20.03(1)	187.234(4)		
30181	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 53.19 193.4				20.03(1)	193.448(4)		
	0.700	3	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 54.71 169.1				20.03(1)	169.149(4)		
	1.400	3	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 60.29 144.0				20.03(1)	144.014(4)		
30182	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 62.38 145.9				20.03(1)	145.895(4)		
	0.400	3	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 48.76 97.95				20.03(1)	97.948(4)		
30183	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 48.71 97.92				20.03(1)	97.918(4)		
	1.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 58.51 161.1				20.03(1)	161.063(4)		
30184	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 59.28 165.9				20.03(1)	165.912(4)		
	0.700	3	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 51.05 172.6				20.03(1)	172.615(4)		
	1.400	3	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 51.40 170.7				20.03(1)	170.684(4)		
30185	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 51.50 171.8				20.03(1)	171.838(4)		
	0.700	3	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 52.01 168.6				20.03(1)	168.618(4)		
	1.400	3	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 59.60 157.1				20.03(1)	157.089(4)		
30186	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 59.23 155.0				20.03(1)	154.964(4)		
	0.900	3	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 49.77 95.14				20.03(1)	95.137(4)		

Steel - Resistance of Cross Sections

Plate Slenderness c/t

Beam	x[m]	SNo	LC	Plate	σ_a	σ_e	ψ	k- σ	c[mm]	t[mm]	c/t	c/t-lim
30187	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	49.80	95.14	20.03(1)	95.141(4)		
	0.500	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	59.67	134.5	20.03(1)	134.518(4)		
30188	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	61.91	145.4	20.03(1)	145.439(4)		
	0.700	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	55.09	166.9	20.03(1)	166.874(4)		
	1.400	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	50.82	201.2	20.03(1)	201.156(4)		
30189	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	50.49	196.7	20.03(1)	196.683(4)		
	0.700	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	43.59	258.4	20.03(1)	258.374(4)		
	1.400	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	51.58	215.1	20.03(1)	215.086(4)		
30190	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	55.62	300.9	20.03(1)	300.870(4)		
	0.700	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	56.35	423.8	20.03(1)	423.829(4)		
	1.400	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	58.68	231.6	20.03(1)	231.583(4)		
30191	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	46.89	295.8	20.03(1)	295.798(4)		
	0.150	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	42.20	207.3	20.03(1)	207.313(4)		
30192	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	47.98	212.2	20.03(1)	212.164(4)		
	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	48.15	318.0	20.03(1)	318.019(4)		
30193	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	48.64	226.3	20.03(1)	226.259(4)		
	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	43.79	177.0	20.03(1)	176.987(4)		
30194	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	61.61	348.2	20.03(1)	348.177(4)		
	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	46.61	205.4	20.03(1)	205.447(4)		
30195	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	44.61	149.6	20.03(1)	149.570(4)		
	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	43.20	154.7	20.03(1)	154.749(4)		
30196	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	58.47	253.3	20.03(1)	253.325(4)		
	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	58.63	333.3	20.03(1)	333.305(4)		
30197	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	45.07	156.9	20.03(1)	156.926(4)		
	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	43.21	144.7	20.03(1)	144.670(4)		
30198	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	44.43	204.1	20.03(1)	204.062(4)		
	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	47.39	193.6	20.03(1)	193.583(4)		
30199	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	45.49	151.5	20.03(1)	151.476(4)		
	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	44.94	169.4	20.03(1)	169.439(4)		
30200	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	54.36	270.7	20.03(1)	270.716(4)		
	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	60.35	359.8	20.03(1)	359.844(4)		
30201	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	62.20	388.9	20.03(1)	388.934(4)		
	1.404	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	43.69	250.1	20.03(1)	250.063(4)		
30202	0.000	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	44.23	116.2	20.03(1)	116.195(4)		
	0.500	3	max	0.61 ¹	c/t-lim(1:4) = 33.00	38.00	44.43	110.0	20.03(1)	109.952(4)		
60001	0.000	6	max	3.04 ¹	c/t-lim(1:4) = 68.89	79.41	115.7	172.9	118.02(3) ²	172.866(4)		
	0.600	6	max	3.06 ¹	c/t-lim(1:4) = 63.53	73.23	103.5	356.7	118.02(3) ²	356.687(4)		
	1.200	6	max	3.01 ¹	c/t-lim(1:4) = 69.25	79.82	116.6	246.0	118.02(3) ²	245.969(4)		
	1.800	6	max	3.00 ¹	c/t-lim(1:4) = 69.76	80.41	117.9	235.8	118.02(3) ²	235.772(4)		
	2.400	6	max	3.02 ¹	c/t-lim(1:4) = 68.59	79.07	114.9	287.0	118.02(3) ²	286.984(4)		
	3.000	6	max	3.08 ¹	c/t-lim(1:4) = 40.63	46.80	69.99	668.2	118.02(3) ²	668.246(4)		
60002	3.600	6	max	2.97 ¹	c/t-lim(1:4) = 70.27	81.00	119.2	193.6	118.02(3)	193.645(4)		
	0.000	6	max	3.01 ¹	c/t-lim(1:4) = 69.50	80.11	117.2	195.4	118.02(3) ²	195.401(4)		
	0.583	6	max	3.07 ¹	c/t-lim(1:4) = 62.06	71.52	100.5	356.4	118.02(3) ²	356.413(4)		
	1.167	6	max	3.05 ¹	c/t-lim(1:4) = 65.04	74.96	106.7	326.4	118.02(3) ²	326.383(4)		
	1.750	6	max	3.03 ¹	c/t-lim(1:4) = 67.61	77.93	112.5	274.8	118.02(3) ²	274.837(4)		
	2.333	6	max	3.05 ¹	c/t-lim(1:4) = 65.63	75.65	108.0	311.9	118.02(3) ²	311.874(4)		
	2.917	6	max	3.09 ¹	c/t-lim(1:4) = 56.96	65.64	91.40	391.7	118.02(3) ²	391.718(4)		
60003	3.500	6	max	3.02 ¹	c/t-lim(1:4) = 69.03	79.58	116.0	204.4	118.02(3) ²	204.433(4)		
	0.000	6	max	3.03 ¹	c/t-lim(1:4) = 68.63	79.11	115.0	201.6	118.02(3) ²	201.568(4)		
	0.583	6	max	3.11 ¹	c/t-lim(1:4) = 53.84	62.04	86.49	378.2	118.02(3) ²	378.212(4)		
	1.167	6	max	3.06 ¹	c/t-lim(1:4) = 64.94	74.86	106.5	296.4	118.02(3) ²	296.389(4)		
	1.750	6	max	3.04 ¹	c/t-lim(1:4) = 67.08	77.32	111.3	261.9	118.02(3) ²	261.862(4)		
	2.333	6	max	3.06 ¹	c/t-lim(1:4) = 64.70	74.58	106.0	301.5	118.02(3) ²	301.531(4)		
	2.917	6	max	3.10 ¹	c/t-lim(1:4) = 57.05	65.74	91.54	365.5	118.02(3) ²	365.476(4)		
60004	3.500	6	max	3.03 ¹	c/t-lim(1:4) = 68.87	79.39	115.6	197.8	118.02(3) ²	197.776(4)		
	0.000	6	max	3.03 ¹	c/t-lim(1:4) = 68.72	79.21	115.2	196.6	118.02(3) ²	196.649(4)		
	0.583	6	max	3.10 ¹	c/t-lim(1:4) = 57.14	65.84	91.69	355.4	118.02(3) ²	355.365(4)		

Steel - Resistance of Cross Sections

Plate Slenderness c/t

Beam	x[m]	SNo	LC	Plate	σ -a	σ -e	ψ	k- σ	c[mm]	t[mm]	c/t	c/t-lim	
60004	1.167	6	max	3.07 ¹	c/t-lim(1:4) = 64.01 73.78 104.5			303.3	118.02(3) ²	303.342(4)			
	1.750	6	max	3.05 ¹	c/t-lim(1:4) = 66.63 76.80 110.2			264.7	118.02(3) ²	264.660(4)			
	2.333	6	max	3.08 ¹	c/t-lim(1:4) = 46.14 53.15 76.15			628.0	118.02(3) ²	628.003(4)			
	2.917	6	max	3.10 ¹	c/t-lim(1:4) = 56.68 65.32 90.94			358.1	118.02(3) ²	358.140(4)			
	3.500	6	max	3.03 ¹	c/t-lim(1:4) = 68.69 79.18 115.2			197.4	118.02(3) ²	197.444(4)			
60005	0.000	6	max	3.03 ¹	c/t-lim(1:4) = 68.81 79.32 115.5			198.3	118.02(3) ²	198.272(4)			
	0.583	6	max	3.10 ¹	c/t-lim(1:4) = 57.18 65.89 91.76			363.2	118.02(3) ²	363.234(4)			
	1.167	6	max	3.06 ¹	c/t-lim(1:4) = 64.39 74.22 105.3			305.4	118.02(3) ²	305.351(4)			
	1.750	6	max	3.05 ¹	c/t-lim(1:4) = 66.84 77.05 110.7			266.8	118.02(3) ²	266.800(4)			
	2.333	6	max	3.06 ¹	c/t-lim(1:4) = 64.27 74.07 105.0			307.1	118.02(3) ²	307.077(4)			
	2.917	6	max	3.09 ¹	c/t-lim(1:4) = 57.98 66.81 93.10			358.1	118.02(3) ²	358.130(4)			
	3.500	6	max	3.03 ¹	c/t-lim(1:4) = 68.86 79.37 115.6			196.8	118.02(3) ²	196.815(4)			
60006	0.000	6	max	3.03 ¹	c/t-lim(1:4) = 69.00 79.54 115.9			197.8	118.02(3) ²	197.790(4)			
	0.583	6	max	3.09 ¹	c/t-lim(1:4) = 57.70 66.49 92.63			368.7	118.02(3) ²	368.695(4)			
	1.167	6	max	3.06 ¹	c/t-lim(1:4) = 65.01 74.93 106.6			302.9	118.02(3) ²	302.936(4)			
	1.750	6	max	3.06 ¹	c/t-lim(1:4) = 48.55 55.93 79.15			696.8	118.02(3) ²	696.784(4)			
	2.333	6	max	3.06 ¹	c/t-lim(1:4) = 65.38 75.35 107.4			294.9	118.02(3) ²	294.855(4)			
	2.917	6	max	3.11 ¹	c/t-lim(1:4) = 52.21 60.16 84.11			390.7	118.02(3) ²	390.713(4)			
	3.500	6	max	3.03 ¹	c/t-lim(1:4) = 68.64 79.13 115.0			204.0	118.02(3) ²	204.009(4)			
60007	0.000	6	max	3.02 ¹	c/t-lim(1:4) = 68.95 79.48 115.8			207.2	118.02(3) ²	207.239(4)			
	0.583	6	max	3.09 ¹	c/t-lim(1:4) = 56.82 65.47 91.16			395.9	118.02(3) ²	395.852(4)			
	1.167	6	max	3.05 ¹	c/t-lim(1:4) = 65.40 75.38 107.5			320.9	118.02(3) ²	320.864(4)			
	1.750	6	max	3.03 ¹	c/t-lim(1:4) = 67.34 77.63 111.9			287.8	118.02(3) ²	287.761(4)			
	2.333	6	max	3.06 ¹	c/t-lim(1:4) = 63.42 73.10 103.3			361.3	118.02(3) ²	361.336(4)			
	2.917	6	max	3.05 ¹	c/t-lim(1:4) = 65.31 75.28 107.3			321.4	118.02(3) ²	321.376(4)			
	3.500	6	max	2.99 ¹	c/t-lim(1:4) = 69.90 80.58 118.2			187.0	118.02(3)	187.011(4)			
60008	0.000	6	max	2.96 ¹	c/t-lim(1:4) = 70.45 81.21 119.7			173.9	118.02(3)	173.863(4)			
	0.586	6	max	3.04 ¹	c/t-lim(1:4) = 66.25 76.36 109.4			328.4	118.02(3) ²	328.355(4)			
	1.171	6	max	3.02 ¹	c/t-lim(1:4) = 68.20 78.61 113.9			288.8	118.02(3) ²	288.824(4)			
	1.757	6	max	2.99 ¹	c/t-lim(1:4) = 70.02 80.72 118.6			217.4	118.02(3)	217.363(4)			
	2.343	6	max	2.98 ¹	c/t-lim(1:4) = 70.10 80.81 118.8			206.8	118.02(3)	206.803(4)			
	2.929	6	max	3.01 ¹	c/t-lim(1:4) = 69.21 79.78 116.5			231.7	118.02(3) ²	231.731(4)			
	3.514	6	max	3.08 ¹	c/t-lim(1:4) = 59.66 68.75 96.04			374.7	118.02(3) ²	374.700(4)			
	4.100	6	max	3.04 ¹	c/t-lim(1:4) = 68.59 79.06 114.9			194.0	118.02(3) ²	193.999(4)			
60009	0.000	6	max	4.00 ¹	c/t-lim(1:4) = 56.67 65.30 90.91			117.8	118.02(4)	117.755(4)			
			1001	0100	-68.66	47.18	-0.69	16.75	177.0	1.5	118.02(3) ²	< 95.0× 1.85(4)	
				0300	-15.42	46.93	-3.04	97.77	63.3	1.5	42.21(1)	< 437.× 3.90(4)	
				0500	-36.67	-16.75	0.46	0.49	18.9	1.5	12.57(3)	< 14.7× 2.53(4)	
				0700	-68.41	-11.00	0.16	6.77	58.3	1.5	38.85(3)	< 58.1× 1.85(4)	
				0900	-9.67	10.30	-1.07	23.80	18.9	1.5	12.57(1)	< 102.× 4.93(4)	
			1002	0100	-70.44	48.35	-0.69	16.73	177.0	1.5	118.02(3) ²	< 94.9× 1.83(4)	
				0300	-15.77	48.10	-3.05	98.10	63.3	1.5	42.21(1)	< 439.× 3.86(4)	
				0500	-37.55	-17.13	0.46	0.49	18.9	1.5	12.57(3)	< 14.7× 2.50(4)	
				0700	-70.19	-11.38	0.16	6.76	58.3	1.5	38.85(3)	< 58.1× 1.83(4)	
				0900	-10.02	10.44	-1.04	23.80	18.9	1.5	12.57(1)	< 102.× 4.84(4)	
			1003	0100	-33.48	16.87	-0.50	13.46	177.0	1.5	118.02(3) ²	< 83.5× 2.65(4)	
				0300	-20.85	16.64	-0.80	19.06	63.3	1.5	42.21(1)	< 104.× 3.36(4)	
				0500	-31.78	-21.59	0.68	0.46	18.9	1.5	12.57(3)	< 14.2× 2.72(4)	
				0700	-33.25	1.27	-0.04	8.06	58.3	1.5	38.85(2)	< 63.9× 2.66(4)	
			1004	0100	-35.26	18.03	-0.51	13.59	177.0	1.5	118.02(3) ²	< 83.9× 2.58(4)	
				0300	-21.20	17.80	-0.84	19.98	63.3	1.5	42.21(1)	< 107.× 3.33(4)	
				0500	-32.66	-21.97	0.67	0.46	18.9	1.5	12.57(3)	< 14.2× 2.68(4)	
				0700	-35.02	0.88	-0.03	7.97	58.3	1.5	38.85(2)	< 63.5× 2.59(4)	
			1005	0100	-57.19	99.30	-1.74	44.78	177.0	1.5	118.02(3)	< 224.× 2.03(4)	
				0300	-56.96	18.54	-0.33	10.89	63.3	1.5	42.21(1)	< 74.8× 2.03(4)	
			1006	0100	-106.1	156.45	-1.48	36.63	177.0	1.5	118.02(3)	< 186.× 1.49(4)	
				0300	-105.8	9.89	-0.09	8.48	63.3	1.5	42.21(3)	< 65.8× 1.49(4)	
				2221	0100	-59.18	84.70	-1.43	35.35	177.0	1.5	118.02(3)	< 180.× 1.99(4)

Steel - Resistance of Cross Sections

Plate Slenderness c/t

Beam	x[m]	SNo	LC	Plate	σ_a	σ_e	ψ	k- σ	c[mm]	t[mm]	c/t	c/t-lim
60009	0.000	6	2221	0300	-59.05	2.89	-0.05	8.14	63.3	1.5	42.21(3)	< 64.3× 1.99(4)
			2222	0100	-118.7	73.38	-0.62	15.44	177.0	1.5	118.02(3) ²	< 90.3× 1.41(4)
				0300	-26.33	73.02	-2.77	85.12	63.3	1.5	42.21(1)	< 390.× 2.99(4)
				0500	-60.92	-28.48	0.47	0.49	18.9	1.5	12.57(3)	< 14.7× 1.96(4)
				0700	-118.3	-26.85	0.23	6.42	58.3	1.5	38.85(3)	< 56.4× 1.41(4)
				0900	-24.71	7.80	-0.32	4.98	18.9	1.5	12.57(1)	< 46.9× 3.08(4)
			2223	0100	-118.7	73.38	-0.62	15.44	177.0	1.5	118.02(3) ²	< 90.3× 1.41(4)
				0300	-26.33	73.02	-2.77	85.12	63.3	1.5	42.21(1)	< 390.× 2.99(4)
				0500	-60.92	-28.48	0.47	0.49	18.9	1.5	12.57(3)	< 14.7× 1.96(4)
				0700	-118.3	-26.85	0.23	6.42	58.3	1.5	38.85(3)	< 56.4× 1.41(4)
				0900	-24.71	7.80	-0.32	4.98	18.9	1.5	12.57(1)	< 46.9× 3.08(4)
			2224	0100	-59.18	84.70	-1.43	35.35	177.0	1.5	118.02(3)	< 180.× 1.99(4)
				0300	-59.05	2.89	-0.05	8.14	63.3	1.5	42.21(3)	< 64.3× 1.99(4)
			2225	0100	-118.7	73.38	-0.62	15.44	177.0	1.5	118.02(3) ²	< 90.3× 1.41(4)
				0300	-26.33	73.02	-2.77	85.12	63.3	1.5	42.21(1)	< 390.× 2.99(4)
				0500	-60.92	-28.48	0.47	0.49	18.9	1.5	12.57(3)	< 14.7× 1.96(4)
				0700	-118.3	-26.85	0.23	6.42	58.3	1.5	38.85(3)	< 56.4× 1.41(4)
				0900	-24.71	7.80	-0.32	4.98	18.9	1.5	12.57(1)	< 46.9× 3.08(4)
			2226	0100	-59.18	84.70	-1.43	35.35	177.0	1.5	118.02(3)	< 180.× 1.99(4)
				0300	-59.05	2.89	-0.05	8.14	63.3	1.5	42.21(3)	< 64.3× 1.99(4)
			2227	0100	-59.18	84.70	-1.43	35.35	177.0	1.5	118.02(3)	< 180.× 1.99(4)
				0300	-59.05	2.89	-0.05	8.14	63.3	1.5	42.21(3)	< 64.3× 1.99(4)
			2228	0100	-118.7	73.38	-0.62	15.44	177.0	1.5	118.02(3) ²	< 90.3× 1.41(4)
				0300	-26.33	73.02	-2.77	85.12	63.3	1.5	42.21(1)	< 390.× 2.99(4)
				0500	-60.92	-28.48	0.47	0.49	18.9	1.5	12.57(3)	< 14.7× 1.96(4)
				0700	-118.3	-26.85	0.23	6.42	58.3	1.5	38.85(3)	< 56.4× 1.41(4)
				0900	-24.71	7.80	-0.32	4.98	18.9	1.5	12.57(1)	< 46.9× 3.08(4)
			2229	0100	-59.18	84.70	-1.43	35.35	177.0	1.5	118.02(3)	< 180.× 1.99(4)
				0300	-59.05	2.89	-0.05	8.14	63.3	1.5	42.21(3)	< 64.3× 1.99(4)
			2230	0100	-118.7	73.38	-0.62	15.44	177.0	1.5	118.02(3) ²	< 90.3× 1.41(4)
				0300	-26.33	73.02	-2.77	85.12	63.3	1.5	42.21(1)	< 390.× 2.99(4)
				0500	-60.92	-28.48	0.47	0.49	18.9	1.5	12.57(3)	< 14.7× 1.96(4)
				0700	-118.3	-26.85	0.23	6.42	58.3	1.5	38.85(3)	< 56.4× 1.41(4)
				0900	-24.71	7.80	-0.32	4.98	18.9	1.5	12.57(1)	< 46.9× 3.08(4)
			2231	0100	-109.8	68.59	-0.62	15.56	177.0	1.5	118.02(3) ²	< 90.7× 1.46(4)
				0300	-23.73	68.26	-2.88	89.83	63.3	1.5	42.21(1)	< 408.× 3.15(4)
				0500	-55.81	-25.72	0.46	0.49	18.9	1.5	12.57(3)	< 14.7× 2.05(4)
				0700	-109.5	-24.75	0.23	6.43	58.3	1.5	38.85(3)	< 56.4× 1.47(4)
				0900	-22.76	7.39	-0.32	5.12	18.9	1.5	12.57(1)	< 47.5× 3.21(4)
			2232	0100	-54.39	75.78	-1.39	34.26	177.0	1.5	118.02(3)	< 175.× 2.08(4)
				0300	-54.29	0.29	-0.01	7.84	63.3	1.5	42.21(3)	< 62.9× 2.08(4)
			2233	0100	-34.37	18.48	-0.54	14.02	177.0	1.5	118.02(3) ²	< 85.4× 2.61(4)
				0300	-10.03	18.37	-1.83	47.95	63.3	1.5	42.21(1)	< 238.× 4.84(4)
				0500	-19.71	-10.63	0.54	0.48	18.9	1.5	12.57(3)	< 14.5× 3.45(4)
				0700	-34.26	-8.12	0.24	6.37	58.3	1.5	38.85(3)	< 56.2× 2.62(4)
				0900	-7.51	1.59	-0.21	3.53	18.9	1.5	12.57(2)	< 39.4× 5.59(4)
			2234	0100	-34.37	18.48	-0.54	14.02	177.0	1.5	118.02(3) ²	< 85.4× 2.61(4)
				0300	-10.03	18.37	-1.83	47.95	63.3	1.5	42.21(1)	< 238.× 4.84(4)
				0500	-19.71	-10.63	0.54	0.48	18.9	1.5	12.57(3)	< 14.5× 3.45(4)
				0700	-34.26	-8.12	0.24	6.37	58.3	1.5	38.85(3)	< 56.2× 2.62(4)
				0900	-7.51	1.59	-0.21	3.53	18.9	1.5	12.57(2)	< 39.4× 5.59(4)
			2235	0100	-34.37	18.48	-0.54	14.02	177.0	1.5	118.02(3) ²	< 85.4× 2.61(4)
				0300	-10.03	18.37	-1.83	47.95	63.3	1.5	42.21(1)	< 238.× 4.84(4)
				0500	-19.71	-10.63	0.54	0.48	18.9	1.5	12.57(3)	< 14.5× 3.45(4)
				0700	-34.26	-8.12	0.24	6.37	58.3	1.5	38.85(3)	< 56.2× 2.62(4)
				0900	-7.51	1.59	-0.21	3.53	18.9	1.5	12.57(2)	< 39.4× 5.59(4)
			2236	0100	-34.37	18.48	-0.54	14.02	177.0	1.5	118.02(3) ²	< 85.4× 2.61(4)
				0300	-10.03	18.37	-1.83	47.95	63.3	1.5	42.21(1)	< 238.× 4.84(4)

Steel - Resistance of Cross Sections

Plate Slenderness c/t

Beam	x[m]	SNo	LC	Plate	σ -a	σ -e	ψ	k- σ	c[mm]	t[mm]	c/t	c/t-lim
60009	0.000	6	2236	0500	-19.71	-10.63	0.54	0.48	18.9	1.5	12.57(3)	< 14.5× 3.45(4)
				0700	-34.26	-8.12	0.24	6.37	58.3	1.5	38.85(3)	< 56.2× 2.62(4)
				0900	-7.51	1.59	-0.21	3.53	18.9	1.5	12.57(2)	< 39.4× 5.59(4)
				2321 0100	-107.8	158.13	-1.47	36.41	177.0	1.5	118.02(3)	< 185.× 1.48(4)
				0300	-107.5	9.77	-0.09	8.46	63.3	1.5	42.21(3)	< 65.7× 1.48(4)
				2322 0100	-140.1	87.89	-0.63	15.61	177.0	1.5	118.02(4)	!< 90.9× 1.30(4)
				0300	-29.96	87.46	-2.92	91.85	63.3	1.5	42.21(1)	< 415.× 2.80(4)
				0500	-70.93	-32.50	0.46	0.49	18.9	1.5	12.57(3)	< 14.7× 1.82(4)
				0700	-139.7	-31.53	0.23	6.43	58.3	1.5	38.85(3)	< 56.4× 1.30(4)
				0900	-29.00	9.52	-0.33	5.18	18.9	1.5	12.57(1)	< 47.8× 2.85(4)
				2323 0100	-140.1	87.89	-0.63	15.61	177.0	1.5	118.02(4)	!< 90.9× 1.30(4)
				0300	-29.96	87.46	-2.92	91.85	63.3	1.5	42.21(1)	< 415.× 2.80(4)
				0500	-70.93	-32.50	0.46	0.49	18.9	1.5	12.57(3)	< 14.7× 1.82(4)
				0700	-139.7	-31.53	0.23	6.43	58.3	1.5	38.85(3)	< 56.4× 1.30(4)
				0900	-29.00	9.52	-0.33	5.18	18.9	1.5	12.57(1)	< 47.8× 2.85(4)
				2324 0100	-107.8	158.13	-1.47	36.41	177.0	1.5	118.02(3)	< 185.× 1.48(4)
				0300	-107.5	9.77	-0.09	8.46	63.3	1.5	42.21(3)	< 65.7× 1.48(4)
				2325 0100	-140.1	87.89	-0.63	15.61	177.0	1.5	118.02(4)	!< 90.9× 1.30(4)
				0300	-29.96	87.46	-2.92	91.85	63.3	1.5	42.21(1)	< 415.× 2.80(4)
				0500	-70.93	-32.50	0.46	0.49	18.9	1.5	12.57(3)	< 14.7× 1.82(4)
				0700	-139.7	-31.53	0.23	6.43	58.3	1.5	38.85(3)	< 56.4× 1.30(4)
				0900	-29.00	9.52	-0.33	5.18	18.9	1.5	12.57(1)	< 47.8× 2.85(4)
				2326 0100	-107.8	158.13	-1.47	36.41	177.0	1.5	118.02(3)	< 185.× 1.48(4)
				0300	-107.5	9.77	-0.09	8.46	63.3	1.5	42.21(3)	< 65.7× 1.48(4)
				2327 0100	-107.8	158.13	-1.47	36.41	177.0	1.5	118.02(3)	< 185.× 1.48(4)
				0300	-107.5	9.77	-0.09	8.46	63.3	1.5	42.21(3)	< 65.7× 1.48(4)
				2328 0100	-140.1	87.89	-0.63	15.61	177.0	1.5	118.02(4)	!< 90.9× 1.30(4)
				0300	-29.96	87.46	-2.92	91.85	63.3	1.5	42.21(1)	< 415.× 2.80(4)
				0500	-70.93	-32.50	0.46	0.49	18.9	1.5	12.57(3)	< 14.7× 1.82(4)
				0700	-139.7	-31.53	0.23	6.43	58.3	1.5	38.85(3)	< 56.4× 1.30(4)
				0900	-29.00	9.52	-0.33	5.18	18.9	1.5	12.57(1)	< 47.8× 2.85(4)
				2329 0100	-107.8	158.13	-1.47	36.41	177.0	1.5	118.02(3)	< 185.× 1.48(4)
				0300	-107.5	9.77	-0.09	8.46	63.3	1.5	42.21(3)	< 65.7× 1.48(4)
				2330 0100	-140.1	87.89	-0.63	15.61	177.0	1.5	118.02(4)	!< 90.9× 1.30(4)
				0300	-29.96	87.46	-2.92	91.85	63.3	1.5	42.21(1)	< 415.× 2.80(4)
				0500	-70.93	-32.50	0.46	0.49	18.9	1.5	12.57(3)	< 14.7× 1.82(4)
				0700	-139.7	-31.53	0.23	6.43	58.3	1.5	38.85(3)	< 56.4× 1.30(4)
				0900	-29.00	9.52	-0.33	5.18	18.9	1.5	12.57(1)	< 47.8× 2.85(4)
				2331 0100	-136.3	85.87	-0.63	15.65	177.0	1.5	118.02(3) ²	< 91.1× 1.31(4)
				0300	-28.87	85.46	-2.96	93.80	63.3	1.5	42.21(1)	< 422.× 2.85(4)
				0500	-68.77	-31.34	0.46	0.49	18.9	1.5	12.57(3)	< 14.7× 1.85(4)
				0700	-135.9	-30.64	0.23	6.43	58.3	1.5	38.85(3)	< 56.5× 1.31(4)
				0900	-28.18	9.34	-0.33	5.24	18.9	1.5	12.57(1)	< 48.1× 2.89(4)
				2332 0100	-105.7	154.38	-1.46	36.19	177.0	1.5	118.02(3)	< 184.× 1.49(4)
				0300	-105.5	8.68	-0.08	8.39	63.3	1.5	42.21(3)	< 65.4× 1.49(4)
				2333 0100	-29.21	15.71	-0.54	14.02	177.0	1.5	118.02(3) ²	< 85.4× 2.84(4)
				0300	-8.52	15.61	-1.83	47.95	63.3	1.5	42.21(1)	< 238.× 5.25(4)
				0500	-16.76	-9.04	0.54	0.48	18.9	1.5	12.57(3)	< 14.5× 3.74(4)
				0700	-29.12	-6.90	0.24	6.37	58.3	1.5	38.85(3)	< 56.2× 2.84(4)
				0900	-6.38	1.35	-0.21	3.53	18.9	1.5	12.57(2)	< 39.4× 6.07(4)
				2334 0100	-29.21	15.71	-0.54	14.02	177.0	1.5	118.02(3) ²	< 85.4× 2.84(4)
				0300	-8.52	15.61	-1.83	47.95	63.3	1.5	42.21(1)	< 238.× 5.25(4)
				0500	-16.76	-9.04	0.54	0.48	18.9	1.5	12.57(3)	< 14.5× 3.74(4)
				0700	-29.12	-6.90	0.24	6.37	58.3	1.5	38.85(3)	< 56.2× 2.84(4)
				0900	-6.38	1.35	-0.21	3.53	18.9	1.5	12.57(2)	< 39.4× 6.07(4)
				2335 0100	-29.21	15.71	-0.54	14.02	177.0	1.5	118.02(3) ²	< 85.4× 2.84(4)
				0300	-8.52	15.61	-1.83	47.95	63.3	1.5	42.21(1)	< 238.× 5.25(4)
				0500	-16.76	-9.04	0.54	0.48	18.9	1.5	12.57(3)	< 14.5× 3.74(4)

Steel - Resistance of Cross Sections

Plate Slenderness c/t

Beam	x[m]	SNo	LC	Plate	σ -a	σ -e	ψ	k- σ	c[mm]	t[mm]	c/t	c/t-lim			
60009	0.000	6	2335	0700	-29.12	-6.90	0.24	6.37	58.3	1.5	38.85(3)	< 56.2× 2.84(4)			
				0900	-6.38	1.35	-0.21	3.53	18.9	1.5	12.57(2)	< 39.4× 6.07(4)			
				2336	0100	-29.21	15.71	-0.54	14.02	177.0	1.5	118.02(3) ²	< 85.4× 2.84(4)		
					0300	-8.52	15.61	-1.83	47.95	63.3	1.5	42.21(1)	< 238.× 5.25(4)		
					0500	-16.76	-9.04	0.54	0.48	18.9	1.5	12.57(3)	< 14.5× 3.74(4)		
					0700	-29.12	-6.90	0.24	6.37	58.3	1.5	38.85(3)	< 56.2× 2.84(4)		
		0900	-6.38	1.35	-0.21	3.53	18.9	1.5	12.57(2)	< 39.4× 6.07(4)					
		0.583	6	max	3.82 ¹	c/t-lim(1:4) = 33.00 38.00 56.12 131.5						118.02(3) ²	131.507(4)		
		1.167	6	max	3.80 ¹	c/t-lim(1:4) = 41.41 47.70 70.82 130.2						118.02(3) ²	130.169(4)		
		1.750	6	max	3.82 ¹	c/t-lim(1:4) = 47.97 55.27 78.42 126.7						118.02(3) ²	126.661(4)		
60010	0.000	6	max	2.333	6	max	3.79 ¹	c/t-lim(1:4) = 42.37 48.80 71.84 130.0						118.02(3) ²	129.974(4)
				2.917	6	max	3.84 ¹	c/t-lim(1:4) = 33.00 38.00 52.67 130.9						118.02(3) ²	130.882(4)
				3.500	6	max	3.95 ¹	c/t-lim(1:4) = 55.98 64.51 89.80 119.4						118.02(3) ²	119.378(4)
				0.600	6	max	3.55 ¹	c/t-lim(1:4) = 51.45 59.28 83.04 146.4						118.02(3) ²	146.387(4)
				1.200	6	max	3.58 ¹	c/t-lim(1:4) = 43.37 49.95 72.94 150.9						118.02(3) ²	150.851(4)
				1.800	6	max	3.62 ¹	c/t-lim(1:4) = 56.44 65.04 90.54 134.6						118.02(3) ²	134.643(4)
				2.400	6	max	3.66 ¹	c/t-lim(1:4) = 57.62 66.40 92.49 131.3						118.02(3) ²	131.341(4)
				3.000	6	max	3.60 ¹	c/t-lim(1:4) = 52.64 60.65 84.73 140.2						118.02(3) ²	140.249(4)
				3.600	6	max	3.69 ¹	c/t-lim(1:4) = 33.00 38.00 49.77 148.4						118.02(3) ²	148.383(4)
				3.600	6	max	3.72 ¹	c/t-lim(1:4) = 60.12 69.29 96.89 126.2						118.02(3) ²	126.153(4)
60011	0.000	6	max	0.000	6	max	3.33 ¹	c/t-lim(1:4) = 50.75 58.47 82.06 189.9						118.02(3) ²	189.919(4)
				0.583	6	max	3.47 ¹	c/t-lim(1:4) = 33.00 38.00 48.26 197.3						118.02(3) ²	197.348(4)
				1.167	6	max	3.38 ¹	c/t-lim(1:4) = 37.69 43.40 67.04 202.8						118.02(3) ²	202.836(4)
				1.750	6	max	3.35 ¹	c/t-lim(1:4) = 42.93 49.45 72.46 201.2						118.02(3) ²	201.215(4)
				2.333	6	max	3.39 ¹	c/t-lim(1:4) = 34.21 39.39 63.81 204.2						118.02(3) ²	204.179(4)
				2.917	6	max	3.41 ¹	c/t-lim(1:4) = 33.00 38.00 58.11 203.5						118.02(3) ²	203.460(4)
				3.500	6	max	3.31 ¹	c/t-lim(1:4) = 54.16 62.41 86.98 185.7						118.02(3) ²	185.708(4)
60012	0.000	6	max	0.000	6	max	2.95 ¹	c/t-lim(1:4) = 70.51 81.29 119.9 144.9						118.02(3)	144.863(4)
				0.586	6	max	3.05 ¹	c/t-lim(1:4) = 66.43 76.57 109.8 279.8						118.02(3) ²	279.806(4)
				1.171	6	max	3.02 ¹	c/t-lim(1:4) = 68.71 79.21 115.2 238.3						118.02(3) ²	238.252(4)
				1.757	6	max	2.96 ¹	c/t-lim(1:4) = 70.35 81.10 119.4 178.4						118.02(3)	178.380(4)
				2.343	6	max	2.95 ¹	c/t-lim(1:4) = 70.48 81.25 119.8 168.1						118.02(3)	168.119(4)
				2.929	6	max	3.00 ¹	c/t-lim(1:4) = 69.88 80.55 118.2 185.2						118.02(3)	185.205(4)
				3.514	6	max	3.06 ¹	c/t-lim(1:4) = 65.25 75.21 107.1 277.0						118.02(3) ²	277.009(4)
				4.100	6	max	3.05 ¹	c/t-lim(1:4) = 67.82 78.18 113.0 208.3						118.02(3) ²	208.251(4)
60013	0.000	6	max	0.000	6	max	3.44 ¹	c/t-lim(1:4) = 63.08 72.71 102.6 138.1						118.02(3) ²	138.058(4)
				0.583	6	max	3.42 ¹	c/t-lim(1:4) = 42.15 48.55 71.61 183.3						118.02(3) ²	183.344(4)
				1.167	6	max	3.38 ¹	c/t-lim(1:4) = 48.89 56.32 79.59 179.6						118.02(3) ²	179.572(4)
				1.750	6	max	3.36 ¹	c/t-lim(1:4) = 55.55 64.01 89.12 168.9						118.02(3) ²	168.896(4)
				2.333	6	max	3.38 ¹	c/t-lim(1:4) = 49.80 57.37 80.78 178.4						118.02(3) ²	178.420(4)
				2.917	6	max	3.43 ¹	c/t-lim(1:4) = 38.72 44.60 68.05 184.6						118.02(3) ²	184.593(4)
				3.500	6	max	3.42 ¹	c/t-lim(1:4) = 62.65 72.20 101.7 140.2						118.02(3) ²	140.157(4)
60014	0.000	6	max	0.000	6	max	3.09 ¹	c/t-lim(1:4) = 68.23 78.65 114.0 159.2						118.02(3) ²	159.159(4)
				0.583	6	max	3.15 ¹	c/t-lim(1:4) = 52.09 60.02 83.94 311.9						118.02(3) ²	311.851(4)
				1.167	6	max	3.12 ¹	c/t-lim(1:4) = 62.18 71.67 100.8 247.6						118.02(3) ²	247.558(4)
				1.750	6	max	3.09 ¹	c/t-lim(1:4) = 65.63 75.64 108.0 216.3						118.02(3) ²	216.317(4)
				2.333	6	max	3.11 ¹	c/t-lim(1:4) = 60.80 70.07 98.13 277.5						118.02(3) ²	277.524(4)
				2.917	6	max	3.16 ¹	c/t-lim(1:4) = 53.69 61.86 86.26 291.0						118.02(3) ²	290.957(4)
				3.500	6	max	3.08 ¹	c/t-lim(1:4) = 68.21 78.63 114.0 165.1						118.02(3) ²	165.107(4)
60015	0.000	6	max	0.000	6	max	3.26 ¹	c/t-lim(1:4) = 63.95 73.70 104.4 157.1						118.02(3) ²	157.142(4)
				0.600	6	max	3.23 ¹	c/t-lim(1:4) = 60.44 69.66 97.47 185.4						118.02(3) ²	185.427(4)
				1.200	6	max	3.22 ¹	c/t-lim(1:4) = 67.20 77.47 111.6 140.8						118.02(3) ²	140.820(4)
				1.800	6	max	3.22 ¹	c/t-lim(1:4) = 67.89 78.26 113.2 135.0						118.02(3) ²	134.962(4)
				2.400	6	max	3.19 ¹	c/t-lim(1:4) = 66.32 76.44 109.5 154.3						118.02(3) ²	154.271(4)
				3.000	6	max	3.40 ¹	c/t-lim(1:4) = 33.00 38.00 45.32 228.3						118.02(3) ²	228.343(4)
				3.600	6	max	3.33 ¹	c/t-lim(1:4) = 68.03 78.42 113.5 127.2						118.02(3) ²	127.197(4)
60016	0.000	6	max	0.000	6	max	3.26 ¹	c/t-lim(1:4) = 65.79 75.83 108.3 146.2						118.02(3) ²	146.161(4)
				0.583	6	max	3.31 ¹	c/t-lim(1:4) = 40.12 46.21 69.47 227.6						118.02(3) ²	227.576(4)

Steel - Resistance of Cross Sections

Plate Slenderness c/t

Beam	x[m]	SNo	LC	Plate	σ -a	σ -e	ψ	k- σ	c[mm]	t[mm]	c/t	c/t-lim
60016	1.167	6	max	3.26 ¹	c/t-lim(1:4) = 51.35 59.17 82.90 218.0				118.02(3) ²	217.967(4)		
	1.750	6	max	3.23 ¹	c/t-lim(1:4) = 57.16 65.86 91.72 205.0				118.02(3) ²	204.979(4)		
	2.333	6	max	3.26 ¹	c/t-lim(1:4) = 51.74 59.61 83.44 218.4				118.02(3) ²	218.375(4)		
	2.917	6	max	3.31 ¹	c/t-lim(1:4) = 39.70 45.73 69.04 228.9				118.02(3) ²	228.851(4)		
	3.500	6	max	3.24 ¹	c/t-lim(1:4) = 65.21 75.16 107.0 153.5				118.02(3) ²	153.541(4)		
60017	0.000	6	max	3.09 ¹	c/t-lim(1:4) = 67.14 77.39 111.4 186.2				118.02(3) ²	186.176(4)		
	0.583	6	max	3.16 ¹	c/t-lim(1:4) = 51.31 59.11 82.83 299.5				118.02(3) ²	299.545(4)		
	1.167	6	max	3.12 ¹	c/t-lim(1:4) = 60.32 69.51 97.24 266.6				118.02(3) ²	266.623(4)		
	1.750	6	max	3.10 ¹	c/t-lim(1:4) = 64.06 73.84 104.6 236.8				118.02(3) ²	236.845(4)		
	2.333	6	max	3.12 ¹	c/t-lim(1:4) = 61.48 70.85 99.42 258.0				118.02(3) ²	258.014(4)		
	2.917	6	max	3.20 ¹	c/t-lim(1:4) = 39.49 45.48 68.82 309.7				118.02(3) ²	309.689(4)		
	3.500	6	max	3.10 ¹	c/t-lim(1:4) = 66.38 76.52 109.7 196.3				118.02(3) ²	196.325(4)		
60018	0.000	6	max	3.23 ¹	c/t-lim(1:4) = 67.23 77.50 111.6 139.2				118.02(3) ²	139.200(4)		
	0.583	6	max	3.22 ¹	c/t-lim(1:4) = 58.70 67.65 94.35 202.9				118.02(3) ²	202.859(4)		
	1.167	6	max	3.25 ¹	c/t-lim(1:4) = 49.38 56.89 80.23 230.3				118.02(3) ²	230.306(4)		
	1.750	6	max	3.21 ¹	c/t-lim(1:4) = 60.05 69.20 96.75 200.0				118.02(3) ²	200.024(4)		
	2.333	6	max	3.22 ¹	c/t-lim(1:4) = 57.22 65.94 91.83 210.1				118.02(3) ²	210.078(4)		
	2.917	6	max	3.31 ¹	c/t-lim(1:4) = 35.59 40.99 65.06 235.7				118.02(3) ²	235.653(4)		
	3.500	6	max	3.22 ¹	c/t-lim(1:4) = 64.80 74.68 106.2 160.7				118.02(3) ²	160.715(4)		
60019	0.000	6	max	3.11 ¹	c/t-lim(1:4) = 65.89 75.95 108.6 191.4				118.02(3) ²	191.444(4)		
	0.583	6	max	3.22 ¹	c/t-lim(1:4) = 39.39 45.36 68.72 296.5				118.02(3) ²	296.461(4)		
	1.167	6	max	3.14 ¹	c/t-lim(1:4) = 59.96 69.10 96.60 251.7				118.02(3) ²	251.711(4)		
	1.750	6	max	3.12 ¹	c/t-lim(1:4) = 62.98 72.58 102.4 231.6				118.02(3) ²	231.558(4)		
	2.333	6	max	3.14 ¹	c/t-lim(1:4) = 58.90 67.88 94.70 257.7				118.02(3) ²	257.720(4)		
	2.917	6	max	3.19 ¹	c/t-lim(1:4) = 49.10 56.57 79.87 285.5				118.02(3) ²	285.536(4)		
	3.500	6	max	3.11 ¹	c/t-lim(1:4) = 66.51 76.66 110.0 183.7				118.02(3) ²	183.697(4)		
60020	0.000	6	max	3.01 ¹	c/t-lim(1:4) = 69.54 80.17 117.3 171.6				118.02(3) ²	171.600(4)		
	0.583	6	max	3.08 ¹	c/t-lim(1:4) = 61.03 70.33 98.57 342.1				118.02(3) ²	342.085(4)		
	1.167	6	max	3.04 ¹	c/t-lim(1:4) = 66.89 77.10 110.8 281.6				118.02(3) ²	281.614(4)		
	1.750	6	max	3.02 ¹	c/t-lim(1:4) = 68.76 79.26 115.3 246.3				118.02(3) ²	246.319(4)		
	2.333	6	max	3.04 ¹	c/t-lim(1:4) = 66.65 76.83 110.3 308.2				118.02(3) ²	308.198(4)		
	2.917	6	max	3.04 ¹	c/t-lim(1:4) = 66.68 76.86 110.4 299.5				118.02(3) ²	299.504(4)		
	3.500	6	max	2.96 ¹	c/t-lim(1:4) = 70.46 81.23 119.7 193.3				118.02(3)	193.329(4)		
60021	0.000	6	max	3.24 ¹	c/t-lim(1:4) = 65.59 75.60 107.9 150.8				118.02(3) ²	150.768(4)		
	0.583	6	max	3.28 ¹	c/t-lim(1:4) = 46.48 53.54 76.56 223.8				118.02(3) ²	223.828(4)		
	1.167	6	max	3.24 ¹	c/t-lim(1:4) = 56.17 64.73 90.11 208.0				118.02(3) ²	207.966(4)		
	1.750	6	max	3.21 ¹	c/t-lim(1:4) = 60.81 70.08 98.16 190.6				118.02(3) ²	190.575(4)		
	2.333	6	max	3.24 ¹	c/t-lim(1:4) = 56.18 64.73 90.12 208.2				118.02(3) ²	208.207(4)		
	2.917	6	max	3.28 ¹	c/t-lim(1:4) = 46.68 53.77 76.81 224.1				118.02(3) ²	224.123(4)		
	3.500	6	max	3.23 ¹	c/t-lim(1:4) = 65.64 75.66 108.0 150.8				118.02(3) ²	150.824(4)		
60022	0.000	6	max	2.93 ¹	c/t-lim(1:4) = 70.84 81.67 120.8 172.7				118.02(3)	172.669(4)		
	0.583	6	max	3.02 ¹	c/t-lim(1:4) = 67.15 77.40 111.4 379.8				118.02(3) ²	379.829(4)		
	1.167	6	max	2.99 ¹	c/t-lim(1:4) = 70.00 80.69 118.5 289.2				118.02(3)	289.175(4)		
	1.750	6	max	2.93 ¹	c/t-lim(1:4) = 70.77 81.59 120.6 238.1				118.02(3)	238.057(4)		
	2.333	6	max	2.98 ¹	c/t-lim(1:4) = 70.14 80.86 118.9 273.0				118.02(3)	273.017(4)		
	2.917	6	max	3.05 ¹	c/t-lim(1:4) = 61.80 71.22 100.0 479.9				118.02(3) ²	479.862(4)		
	3.500	6	max	2.95 ¹	c/t-lim(1:4) = 70.56 81.34 120.0 184.0				118.02(3)	184.025(4)		
60023	0.000	6	max	3.89 ¹	c/t-lim(1:4) = 56.20 64.76 90.16 121.6				118.02(3) ²	121.637(4)		
	0.583	6	max	3.80 ¹	c/t-lim(1:4) = 33.00 38.00 53.54 133.9				118.02(3) ²	133.910(4)		
	1.167	6	max	3.76 ¹	c/t-lim(1:4) = 41.48 47.78 70.89 132.9				118.02(3) ²	132.893(4)		
	1.750	6	max	3.77 ¹	c/t-lim(1:4) = 46.62 53.70 76.74 130.0				118.02(3) ²	130.028(4)		
	2.333	6	max	3.77 ¹	c/t-lim(1:4) = 37.01 42.62 66.39 133.6				118.02(3) ²	133.589(4)		
	2.917	6	max	3.76 ¹	c/t-lim(1:4) = 35.95 41.40 65.39 134.2				118.02(3) ²	134.240(4)		
	3.500	6	max	4.02 ¹	c/t-lim(1:4) = 58.67 67.61 94.30 115.6				118.02(4)	115.580(4)		
			1001	0100	-77.24	57.08	-0.74	17.80	177.0	1.5	118.02(3) ²	< 98.8× 1.74(4)
				0300	-6.43	56.90	-8.85	580.7	63.3	1.5	42.21(1)	<1818.× 6.05(4)
				0500	-29.61	-7.83	0.26	0.52	18.9	1.5	12.57(3)	< 15.1× 2.82(4)
				0700	-77.06	-18.74	0.24	6.34	58.3	1.5	38.85(3)	< 56.0× 1.75(4)

Steel - Resistance of Cross Sections

Plate Slenderness c/t

Beam	x[m]	SNo	LC	Plate	σ-a	σ-e	ψ	k-σ	c[mm]	t[mm]	c/t	c/t-lim
60023	3.500	6	1001	0900	-17.34	4.48	-0.26	4.13	18.9	1.5	12.57(1)	< 42.7× 3.68(4)
			1002	0100	-79.23	58.49	-0.74	17.78	177.0	1.5	118.02(3) ²	< 98.7× 1.72(4)
				0300	-6.56	58.30	-8.88	583.9	63.3	1.5	42.21(1)	<1826.× 5.98(4)
				0500	-30.32	-8.00	0.26	0.52	18.9	1.5	12.57(3)	< 15.1× 2.78(4)
				0700	-79.05	-19.32	0.24	6.33	58.3	1.5	38.85(3)	< 56.0× 1.72(4)
				0900	-17.89	4.48	-0.25	4.02	18.9	1.5	12.57(1)	< 42.1× 3.62(4)
			1003	0100	-53.62	34.68	-0.65	15.97	177.0	1.5	118.02(3) ²	< 92.2× 2.09(4)
				0300	-8.06	34.55	-4.29	167.1	63.3	1.5	42.21(1)	< 679.× 5.40(4)
				0500	-23.46	-9.00	0.38	0.50	18.9	1.5	12.57(3)	< 14.8× 3.17(4)
				0700	-53.48	-14.25	0.27	6.23	58.3	1.5	38.85(3)	< 55.4× 2.10(4)
				0900	-13.32	1.17	-0.09	2.27	18.9	1.5	12.57(3)	< 31.6× 4.20(4)
			1004	0100	-55.61	36.07	-0.65	16.01	177.0	1.5	118.02(3) ²	< 92.3× 2.06(4)
				0300	-8.20	35.94	-4.38	173.4	63.3	1.5	42.21(1)	< 699.× 5.35(4)
				0500	-24.17	-9.17	0.38	0.50	18.9	1.5	12.57(3)	< 14.9× 3.12(4)
				0700	-55.47	-14.84	0.27	6.22	58.3	1.5	38.85(3)	< 55.4× 2.06(4)
				0900	-13.87	1.16	-0.08	2.24	18.9	1.5	12.57(3)	< 31.4× 4.12(4)
			1005	0100	-68.44	110.13	-1.61	40.71	177.0	1.5	118.02(3)	< 205.× 1.85(4)
				0300	-68.29	8.17	-0.12	8.70	63.3	1.5	42.21(2)	< 66.7× 1.86(4)
			1006	0100	-104.6	148.72	-1.42	35.06	177.0	1.5	118.02(3)	< 179.× 1.50(4)
				0300	-104.4	5.42	-0.05	8.16	63.3	1.5	42.21(3)	< 64.4× 1.50(4)
			2221	0100	-56.60	78.46	-1.39	34.05	177.0	1.5	118.02(3)	< 174.× 2.04(4)
				0300	-56.48	1.72	-0.03	8.01	63.3	1.5	42.21(3)	< 63.7× 2.04(4)
			2222	0100	-132.5	88.74	-0.67	16.41	177.0	1.5	118.02(3) ²	< 93.7× 1.33(4)
				0300	-12.22	88.48	-7.24	406.0	63.3	1.5	42.21(1)	<1374.× 4.38(4)
				0500	-49.82	-14.48	0.29	0.51	18.9	1.5	12.57(3)	< 15.1× 2.17(4)
				0700	-132.3	-39.54	0.30	6.08	58.3	1.5	38.85(3)	< 54.7× 1.33(4)
				0900	-37.28	-1.88	0.05	1.48	18.9	1.5	12.57(3)	< 25.6× 2.51(4)
			2223	0100	-56.60	78.46	-1.39	34.05	177.0	1.5	118.02(3)	< 174.× 2.04(4)
				0300	-56.48	1.72	-0.03	8.01	63.3	1.5	42.21(3)	< 63.7× 2.04(4)
			2224	0100	-132.5	88.74	-0.67	16.41	177.0	1.5	118.02(3) ²	< 93.7× 1.33(4)
				0300	-12.22	88.48	-7.24	406.0	63.3	1.5	42.21(1)	<1374.× 4.38(4)
				0500	-49.82	-14.48	0.29	0.51	18.9	1.5	12.57(3)	< 15.1× 2.17(4)
				0700	-132.3	-39.54	0.30	6.08	58.3	1.5	38.85(3)	< 54.7× 1.33(4)
				0900	-37.28	-1.88	0.05	1.48	18.9	1.5	12.57(3)	< 25.6× 2.51(4)
			2225	0100	-56.60	78.46	-1.39	34.05	177.0	1.5	118.02(3)	< 174.× 2.04(4)
				0300	-56.48	1.72	-0.03	8.01	63.3	1.5	42.21(3)	< 63.7× 2.04(4)
			2226	0100	-132.5	88.74	-0.67	16.41	177.0	1.5	118.02(3) ²	< 93.7× 1.33(4)
				0300	-12.22	88.48	-7.24	406.0	63.3	1.5	42.21(1)	<1374.× 4.38(4)
				0500	-49.82	-14.48	0.29	0.51	18.9	1.5	12.57(3)	< 15.1× 2.17(4)
				0700	-132.3	-39.54	0.30	6.08	58.3	1.5	38.85(3)	< 54.7× 1.33(4)
				0900	-37.28	-1.88	0.05	1.48	18.9	1.5	12.57(3)	< 25.6× 2.51(4)
			2227	0100	-132.5	88.74	-0.67	16.41	177.0	1.5	118.02(3) ²	< 93.7× 1.33(4)
				0300	-12.22	88.48	-7.24	406.0	63.3	1.5	42.21(1)	<1374.× 4.38(4)
				0500	-49.82	-14.48	0.29	0.51	18.9	1.5	12.57(3)	< 15.1× 2.17(4)
				0700	-132.3	-39.54	0.30	6.08	58.3	1.5	38.85(3)	< 54.7× 1.33(4)
				0900	-37.28	-1.88	0.05	1.48	18.9	1.5	12.57(3)	< 25.6× 2.51(4)
			2228	0100	-56.60	78.46	-1.39	34.05	177.0	1.5	118.02(3)	< 174.× 2.04(4)
				0300	-56.48	1.72	-0.03	8.01	63.3	1.5	42.21(3)	< 63.7× 2.04(4)
			2229	0100	-56.60	78.46	-1.39	34.05	177.0	1.5	118.02(3)	< 174.× 2.04(4)
				0300	-56.48	1.72	-0.03	8.01	63.3	1.5	42.21(3)	< 63.7× 2.04(4)
			2230	0100	-132.5	88.74	-0.67	16.41	177.0	1.5	118.02(3) ²	< 93.7× 1.33(4)
				0300	-12.22	88.48	-7.24	406.0	63.3	1.5	42.21(1)	<1374.× 4.38(4)
				0500	-49.82	-14.48	0.29	0.51	18.9	1.5	12.57(3)	< 15.1× 2.17(4)
				0700	-132.3	-39.54	0.30	6.08	58.3	1.5	38.85(3)	< 54.7× 1.33(4)
				0900	-37.28	-1.88	0.05	1.48	18.9	1.5	12.57(3)	< 25.6× 2.51(4)
			2231	0100	-132.5	88.74	-0.67	16.41	177.0	1.5	118.02(3) ²	< 93.7× 1.33(4)
				0300	-12.22	88.48	-7.24	406.0	63.3	1.5	42.21(1)	<1374.× 4.38(4)
				0500	-49.82	-14.48	0.29	0.51	18.9	1.5	12.57(3)	< 15.1× 2.17(4)

Steel - Resistance of Cross Sections

Plate Slenderness c/t

Beam	x[m]	SNo	LC	Plate	σ -a	σ -e	ψ	k- σ	c[mm]	t[mm]	c/t	c/t-lim
60023	3.500	6	2231	0700	-132.3	-39.54	0.30	6.08	58.3	1.5	38.85(3)	< 54.7× 1.33(4)
				0900	-37.28	-1.88	0.05	1.48	18.9	1.5	12.57(3)	< 25.6× 2.51(4)
			2232	0100	-56.60	78.46	-1.39	34.05	177.0	1.5	118.02(3)	< 174.× 2.04(4)
				0300	-56.48	1.72	-0.03	8.01	63.3	1.5	42.21(3)	< 63.7× 2.04(4)
			2233	0100	-38.33	22.99	-0.60	15.10	177.0	1.5	118.02(3) ²	< 89.2× 2.48(4)
				0300	-5.89	22.91	-3.89	142.9	63.3	1.5	42.21(1)	< 598.× 6.32(4)
				0500	-16.46	-6.53	0.40	0.50	18.9	1.5	12.57(3)	< 14.8× 3.78(4)
				0700	-38.25	-11.72	0.31	6.04	58.3	1.5	38.85(3)	< 54.5× 2.48(4)
				0900	-11.09	-1.14	0.10	1.30	18.9	1.5	12.57(3)	< 24.0× 4.60(4)
			2234	0100	-38.33	22.99	-0.60	15.10	177.0	1.5	118.02(3) ²	< 89.2× 2.48(4)
				0300	-5.89	22.91	-3.89	142.9	63.3	1.5	42.21(1)	< 598.× 6.32(4)
				0500	-16.46	-6.53	0.40	0.50	18.9	1.5	12.57(3)	< 14.8× 3.78(4)
				0700	-38.25	-11.72	0.31	6.04	58.3	1.5	38.85(3)	< 54.5× 2.48(4)
				0900	-11.09	-1.14	0.10	1.30	18.9	1.5	12.57(3)	< 24.0× 4.60(4)
			2235	0100	-38.33	22.99	-0.60	15.10	177.0	1.5	118.02(3) ²	< 89.2× 2.48(4)
				0300	-5.89	22.91	-3.89	142.9	63.3	1.5	42.21(1)	< 598.× 6.32(4)
				0500	-16.46	-6.53	0.40	0.50	18.9	1.5	12.57(3)	< 14.8× 3.78(4)
				0700	-38.25	-11.72	0.31	6.04	58.3	1.5	38.85(3)	< 54.5× 2.48(4)
				0900	-11.09	-1.14	0.10	1.30	18.9	1.5	12.57(3)	< 24.0× 4.60(4)
			2236	0100	-38.33	22.99	-0.60	15.10	177.0	1.5	118.02(3) ²	< 89.2× 2.48(4)
				0300	-5.89	22.91	-3.89	142.9	63.3	1.5	42.21(1)	< 598.× 6.32(4)
				0500	-16.46	-6.53	0.40	0.50	18.9	1.5	12.57(3)	< 14.8× 3.78(4)
				0700	-38.25	-11.72	0.31	6.04	58.3	1.5	38.85(3)	< 54.5× 2.48(4)
				0900	-11.09	-1.14	0.10	1.30	18.9	1.5	12.57(3)	< 24.0× 4.60(4)
			2321	0100	-105.7	149.69	-1.42	34.92	177.0	1.5	118.02(3)	< 178.× 1.49(4)
				0300	-105.4	5.78	-0.05	8.18	63.3	1.5	42.21(3)	< 64.5× 1.49(4)
			2322	0100	-156.4	105.98	-0.68	16.56	177.0	1.5	118.02(4)	!< 94.3× 1.23(4)
				0300	-13.33	105.68	-7.93	476.6	63.3	1.5	42.21(1)	<1558.× 4.20(4)
				0500	-57.85	-16.00	0.28	0.52	18.9	1.5	12.57(3)	< 15.1× 2.02(4)
				0700	-156.1	-46.53	0.30	6.08	58.3	1.5	38.85(3)	< 54.7× 1.23(4)
				0900	-43.86	-1.94	0.04	1.50	18.9	1.5	12.57(3)	< 25.8× 2.31(4)
			2323	0100	-105.7	149.69	-1.42	34.92	177.0	1.5	118.02(3)	< 178.× 1.49(4)
				0300	-105.4	5.78	-0.05	8.18	63.3	1.5	42.21(3)	< 64.5× 1.49(4)
			2324	0100	-156.4	105.98	-0.68	16.56	177.0	1.5	118.02(4)	!< 94.3× 1.23(4)
				0300	-13.33	105.68	-7.93	476.6	63.3	1.5	42.21(1)	<1558.× 4.20(4)
				0500	-57.85	-16.00	0.28	0.52	18.9	1.5	12.57(3)	< 15.1× 2.02(4)
				0700	-156.1	-46.53	0.30	6.08	58.3	1.5	38.85(3)	< 54.7× 1.23(4)
				0900	-43.86	-1.94	0.04	1.50	18.9	1.5	12.57(3)	< 25.8× 2.31(4)
			2325	0100	-105.7	149.69	-1.42	34.92	177.0	1.5	118.02(3)	< 178.× 1.49(4)
				0300	-105.4	5.78	-0.05	8.18	63.3	1.5	42.21(3)	< 64.5× 1.49(4)
			2326	0100	-156.4	105.98	-0.68	16.56	177.0	1.5	118.02(4)	!< 94.3× 1.23(4)
				0300	-13.33	105.68	-7.93	476.6	63.3	1.5	42.21(1)	<1558.× 4.20(4)
				0500	-57.85	-16.00	0.28	0.52	18.9	1.5	12.57(3)	< 15.1× 2.02(4)
				0700	-156.1	-46.53	0.30	6.08	58.3	1.5	38.85(3)	< 54.7× 1.23(4)
				0900	-43.86	-1.94	0.04	1.50	18.9	1.5	12.57(3)	< 25.8× 2.31(4)
			2327	0100	-156.4	105.98	-0.68	16.56	177.0	1.5	118.02(4)	!< 94.3× 1.23(4)
				0300	-13.33	105.68	-7.93	476.6	63.3	1.5	42.21(1)	<1558.× 4.20(4)
				0500	-57.85	-16.00	0.28	0.52	18.9	1.5	12.57(3)	< 15.1× 2.02(4)
				0700	-156.1	-46.53	0.30	6.08	58.3	1.5	38.85(3)	< 54.7× 1.23(4)
				0900	-43.86	-1.94	0.04	1.50	18.9	1.5	12.57(3)	< 25.8× 2.31(4)
			2328	0100	-105.7	149.69	-1.42	34.92	177.0	1.5	118.02(3)	< 178.× 1.49(4)
				0300	-105.4	5.78	-0.05	8.18	63.3	1.5	42.21(3)	< 64.5× 1.49(4)
			2329	0100	-105.7	149.69	-1.42	34.92	177.0	1.5	118.02(3)	< 178.× 1.49(4)
				0300	-105.4	5.78	-0.05	8.18	63.3	1.5	42.21(3)	< 64.5× 1.49(4)
			2330	0100	-156.4	105.98	-0.68	16.56	177.0	1.5	118.02(4)	!< 94.3× 1.23(4)
				0300	-13.33	105.68	-7.93	476.6	63.3	1.5	42.21(1)	<1558.× 4.20(4)
				0500	-57.85	-16.00	0.28	0.52	18.9	1.5	12.57(3)	< 15.1× 2.02(4)
				0700	-156.1	-46.53	0.30	6.08	58.3	1.5	38.85(3)	< 54.7× 1.23(4)

Steel - Resistance of Cross Sections

Plate Slenderness c/t

Beam	x[m]	SNo	LC	Plate	σ-a	σ-e	ψ	k-σ	c[mm]	t[mm]	c/t	c/t-lim			
60023	3.500	6	2330	0900	-43.86	-1.94	0.04	1.50	18.9	1.5	12.57(3)	< 25.8× 2.31(4)			
			2331	0100	-156.4	105.98	-0.68	16.56	177.0	1.5	118.02(4)	!< 94.3× 1.23(4)			
				0300	-13.33	105.68	-7.93	476.6	63.3	1.5	42.21(1)	<1558.× 4.20(4)			
				0500	-57.85	-16.00	0.28	0.52	18.9	1.5	12.57(3)	< 15.1× 2.02(4)			
				0700	-156.1	-46.53	0.30	6.08	58.3	1.5	38.85(3)	< 54.7× 1.23(4)			
				0900	-43.86	-1.94	0.04	1.50	18.9	1.5	12.57(3)	< 25.8× 2.31(4)			
			2332	0100	-105.7	149.69	-1.42	34.92	177.0	1.5	118.02(3)	< 178.× 1.49(4)			
				0300	-105.4	5.78	-0.05	8.18	63.3	1.5	42.21(3)	< 64.5× 1.49(4)			
			2333	0100	-32.58	19.54	-0.60	15.10	177.0	1.5	118.02(3) ²	< 89.2× 2.69(4)			
				0300	-5.01	19.47	-3.89	142.9	63.3	1.5	42.21(1)	< 598.× 6.85(4)			
				0500	-13.99	-5.55	0.40	0.50	18.9	1.5	12.57(3)	< 14.8× 4.10(4)			
				0700	-32.51	-9.97	0.31	6.04	58.3	1.5	38.85(3)	< 54.5× 2.69(4)			
				0900	-9.42	-0.97	0.10	1.30	18.9	1.5	12.57(3)	< 24.0× 4.99(4)			
			2334	0100	-32.58	19.54	-0.60	15.10	177.0	1.5	118.02(3) ²	< 89.2× 2.69(4)			
				0300	-5.01	19.47	-3.89	142.9	63.3	1.5	42.21(1)	< 598.× 6.85(4)			
				0500	-13.99	-5.55	0.40	0.50	18.9	1.5	12.57(3)	< 14.8× 4.10(4)			
				0700	-32.51	-9.97	0.31	6.04	58.3	1.5	38.85(3)	< 54.5× 2.69(4)			
				0900	-9.42	-0.97	0.10	1.30	18.9	1.5	12.57(3)	< 24.0× 4.99(4)			
			2335	0100	-32.58	19.54	-0.60	15.10	177.0	1.5	118.02(3) ²	< 89.2× 2.69(4)			
				0300	-5.01	19.47	-3.89	142.9	63.3	1.5	42.21(1)	< 598.× 6.85(4)			
				0500	-13.99	-5.55	0.40	0.50	18.9	1.5	12.57(3)	< 14.8× 4.10(4)			
				0700	-32.51	-9.97	0.31	6.04	58.3	1.5	38.85(3)	< 54.5× 2.69(4)			
				0900	-9.42	-0.97	0.10	1.30	18.9	1.5	12.57(3)	< 24.0× 4.99(4)			
			2336	0100	-32.58	19.54	-0.60	15.10	177.0	1.5	118.02(3) ²	< 89.2× 2.69(4)			
				0300	-5.01	19.47	-3.89	142.9	63.3	1.5	42.21(1)	< 598.× 6.85(4)			
				0500	-13.99	-5.55	0.40	0.50	18.9	1.5	12.57(3)	< 14.8× 4.10(4)			
				0700	-32.51	-9.97	0.31	6.04	58.3	1.5	38.85(3)	< 54.5× 2.69(4)			
				0900	-9.42	-0.97	0.10	1.30	18.9	1.5	12.57(3)	< 24.0× 4.99(4)			
			60024	0.000	6	max	4.01 ¹	c/t-lim(1:4) = 61.83 71.26 100.1 116.6						118.02(4)	116.641(4)
						1001	0100	-91.51	64.10	-0.70	17.01	177.0	1.5	118.02(3) ²	< 95.9× 1.60(4)
							0300	-23.86	63.72	-2.67	80.55	63.3	1.5	42.21(1)	< 372.× 3.14(4)
							0500	-53.04	-25.71	0.48	0.48	18.9	1.5	12.57(3)	< 14.6× 2.10(4)
							0700	-91.13	-10.48	0.12	7.04	58.3	1.5	38.85(3)	< 59.4× 1.61(4)
							0900	-8.64	18.75	-2.17	23.80	18.9	1.5	12.57(1)	< 102.× 5.21(4)
						1002	0100	-93.75	65.84	-0.70	17.05	177.0	1.5	118.02(3) ²	< 96.1× 1.58(4)
							0300	-24.32	65.45	-2.69	81.48	63.3	1.5	42.21(1)	< 375.× 3.11(4)
							0500	-54.23	-26.21	0.48	0.48	18.9	1.5	12.57(3)	< 14.6× 2.08(4)
							0700	-93.36	-10.71	0.11	7.04	58.3	1.5	38.85(3)	< 59.4× 1.59(4)
							0900	-8.82	19.27	-2.19	23.80	18.9	1.5	12.57(1)	< 102.× 5.16(4)
						1003	0100	-61.35	40.45	-0.66	16.21	177.0	1.5	118.02(3) ²	< 93.0× 1.96(4)
							0300	-17.81	40.19	-2.26	63.42	63.3	1.5	42.21(1)	< 303.× 3.63(4)
							0500	-37.01	-19.03	0.51	0.48	18.9	1.5	12.57(3)	< 14.6× 2.52(4)
							0700	-61.09	-7.69	0.13	6.97	58.3	1.5	38.85(3)	< 59.1× 1.96(4)
							0900	-6.47	11.56	-1.79	23.80	18.9	1.5	12.57(1)	< 102.× 6.03(4)
						1004	0100	-63.58	42.17	-0.66	16.28	177.0	1.5	118.02(3) ²	< 93.3× 1.92(4)
							0300	-18.26	41.91	-2.30	64.94	63.3	1.5	42.21(1)	< 310.× 3.59(4)
							0500	-38.19	-19.52	0.51	0.48	18.9	1.5	12.57(3)	< 14.6× 2.48(4)
							0700	-63.31	-7.92	0.13	6.98	58.3	1.5	38.85(3)	< 59.1× 1.93(4)
	0900	-6.66				12.06	-1.81	23.80	18.9	1.5	12.57(1)	< 102.× 5.94(4)			
1005	0100	-94.79				112.63	-1.19	28.63	177.0	1.5	118.02(3)	< 148.× 1.57(4)			
	0300	-94.37				15.51	-0.16	9.11	63.3	1.5	42.21(2)	< 68.3× 1.58(4)			
	0900	-26.81				8.69	-0.32	0.65	18.9	1.5	12.57(2)	< 16.9× 2.96(4)			
1006	0100	-132.0				160.85	-1.22	29.45	177.0	1.5	118.02(3)	< 152.× 1.33(4)			
	0300	-131.3				24.60	-0.19	9.33	63.3	1.5	42.21(2)	< 69.1× 1.34(4)			
	0900	-36.91				13.32	-0.36	0.65	18.9	1.5	12.57(2)	< 17.0× 2.52(4)			
2221	0100	-71.85				85.30	-1.19	28.61	177.0	1.5	118.02(3)	< 148.× 1.81(4)			
	0300	-71.53				12.02	-0.17	9.14	63.3	1.5	42.21(2)	< 68.4× 1.81(4)			
	0900	-20.67				6.27	-0.30	0.64	18.9	1.5	12.57(2)	< 16.8× 3.37(4)			

Steel - Resistance of Cross Sections

Plate Slenderness c/t

Beam	x[m]	SNo	LC	Plate	σ_a	σ_e	ψ	k- σ	c[mm]	t[mm]	c/t	c/t-lim
60024	0.000	6	2222	0100	-146.5	109.90	-0.75	18.03	177.0	1.5	118.02(3) ²	< 99.7× 1.27(4)
				0300	-32.10	109.31	-3.41	116.1	63.3	1.5	42.21(1)	< 504.× 2.71(4)
				0500	-79.70	-35.09	0.44	0.49	18.9	1.5	12.57(3)	< 14.7× 1.72(4)
				0700	-146.0	-15.75	0.11	7.08	58.3	1.5	38.85(3)	< 59.6× 1.27(4)
				0900	-12.76	31.95	-2.50	23.80	18.9	1.5	12.57(1)	< 102.× 4.29(4)
			2223	0100	-146.5	109.90	-0.75	18.03	177.0	1.5	118.02(3) ²	< 99.7× 1.27(4)
				0300	-32.10	109.31	-3.41	116.1	63.3	1.5	42.21(1)	< 504.× 2.71(4)
				0500	-79.70	-35.09	0.44	0.49	18.9	1.5	12.57(3)	< 14.7× 1.72(4)
				0700	-146.0	-15.75	0.11	7.08	58.3	1.5	38.85(3)	< 59.6× 1.27(4)
				0900	-12.76	31.95	-2.50	23.80	18.9	1.5	12.57(1)	< 102.× 4.29(4)
			2224	0100	-71.85	85.30	-1.19	28.61	177.0	1.5	118.02(3)	< 148.× 1.81(4)
				0300	-71.53	12.02	-0.17	9.14	63.3	1.5	42.21(2)	< 68.4× 1.81(4)
				0900	-20.67	6.27	-0.30	0.64	18.9	1.5	12.57(2)	< 16.8× 3.37(4)
			2225	0100	-146.5	109.90	-0.75	18.03	177.0	1.5	118.02(3) ²	< 99.7× 1.27(4)
				0300	-32.10	109.31	-3.41	116.1	63.3	1.5	42.21(1)	< 504.× 2.71(4)
				0500	-79.70	-35.09	0.44	0.49	18.9	1.5	12.57(3)	< 14.7× 1.72(4)
				0700	-146.0	-15.75	0.11	7.08	58.3	1.5	38.85(3)	< 59.6× 1.27(4)
				0900	-12.76	31.95	-2.50	23.80	18.9	1.5	12.57(1)	< 102.× 4.29(4)
			2226	0100	-71.85	85.30	-1.19	28.61	177.0	1.5	118.02(3)	< 148.× 1.81(4)
				0300	-71.53	12.02	-0.17	9.14	63.3	1.5	42.21(2)	< 68.4× 1.81(4)
				0900	-20.67	6.27	-0.30	0.64	18.9	1.5	12.57(2)	< 16.8× 3.37(4)
			2227	0100	-71.85	85.30	-1.19	28.61	177.0	1.5	118.02(3)	< 148.× 1.81(4)
				0300	-71.53	12.02	-0.17	9.14	63.3	1.5	42.21(2)	< 68.4× 1.81(4)
				0900	-20.67	6.27	-0.30	0.64	18.9	1.5	12.57(2)	< 16.8× 3.37(4)
			2228	0100	-146.5	109.90	-0.75	18.03	177.0	1.5	118.02(3) ²	< 99.7× 1.27(4)
				0300	-32.10	109.31	-3.41	116.1	63.3	1.5	42.21(1)	< 504.× 2.71(4)
				0500	-79.70	-35.09	0.44	0.49	18.9	1.5	12.57(3)	< 14.7× 1.72(4)
				0700	-146.0	-15.75	0.11	7.08	58.3	1.5	38.85(3)	< 59.6× 1.27(4)
				0900	-12.76	31.95	-2.50	23.80	18.9	1.5	12.57(1)	< 102.× 4.29(4)
			2229	0100	-71.85	85.30	-1.19	28.61	177.0	1.5	118.02(3)	< 148.× 1.81(4)
				0300	-71.53	12.02	-0.17	9.14	63.3	1.5	42.21(2)	< 68.4× 1.81(4)
				0900	-20.67	6.27	-0.30	0.64	18.9	1.5	12.57(2)	< 16.8× 3.37(4)
			2230	0100	-146.5	109.90	-0.75	18.03	177.0	1.5	118.02(3) ²	< 99.7× 1.27(4)
				0300	-32.10	109.31	-3.41	116.1	63.3	1.5	42.21(1)	< 504.× 2.71(4)
				0500	-79.70	-35.09	0.44	0.49	18.9	1.5	12.57(3)	< 14.7× 1.72(4)
				0700	-146.0	-15.75	0.11	7.08	58.3	1.5	38.85(3)	< 59.6× 1.27(4)
				0900	-12.76	31.95	-2.50	23.80	18.9	1.5	12.57(1)	< 102.× 4.29(4)
			2231	0100	-71.85	85.30	-1.19	28.61	177.0	1.5	118.02(3)	< 148.× 1.81(4)
				0300	-71.53	12.02	-0.17	9.14	63.3	1.5	42.21(2)	< 68.4× 1.81(4)
				0900	-20.67	6.27	-0.30	0.64	18.9	1.5	12.57(2)	< 16.8× 3.37(4)
			2232	0100	-146.5	109.90	-0.75	18.03	177.0	1.5	118.02(3) ²	< 99.7× 1.27(4)
				0300	-32.10	109.31	-3.41	116.1	63.3	1.5	42.21(1)	< 504.× 2.71(4)
				0500	-79.70	-35.09	0.44	0.49	18.9	1.5	12.57(3)	< 14.7× 1.72(4)
				0700	-146.0	-15.75	0.11	7.08	58.3	1.5	38.85(3)	< 59.6× 1.27(4)
				0900	-12.76	31.95	-2.50	23.80	18.9	1.5	12.57(1)	< 102.× 4.29(4)
			2233	0100	-42.10	29.41	-0.70	16.98	177.0	1.5	118.02(3) ²	< 95.8× 2.36(4)
				0300	-11.56	29.23	-2.53	74.51	63.3	1.5	42.21(1)	< 348.× 4.51(4)
				0500	-25.05	-12.41	0.50	0.48	18.9	1.5	12.57(3)	< 14.6× 3.06(4)
				0700	-41.92	-4.37	0.10	7.10	58.3	1.5	38.85(3)	< 59.7× 2.37(4)
				0900	-3.51	9.16	-2.61	23.80	18.9	1.5	12.57(1)	< 102.× 8.18(4)
			2234	0100	-42.10	29.41	-0.70	16.98	177.0	1.5	118.02(3) ²	< 95.8× 2.36(4)
				0300	-11.56	29.23	-2.53	74.51	63.3	1.5	42.21(1)	< 348.× 4.51(4)
				0500	-25.05	-12.41	0.50	0.48	18.9	1.5	12.57(3)	< 14.6× 3.06(4)
				0700	-41.92	-4.37	0.10	7.10	58.3	1.5	38.85(3)	< 59.7× 2.37(4)
				0900	-3.51	9.16	-2.61	23.80	18.9	1.5	12.57(1)	< 102.× 8.18(4)
			2235	0100	-42.10	29.41	-0.70	16.98	177.0	1.5	118.02(3) ²	< 95.8× 2.36(4)
				0300	-11.56	29.23	-2.53	74.51	63.3	1.5	42.21(1)	< 348.× 4.51(4)
				0500	-25.05	-12.41	0.50	0.48	18.9	1.5	12.57(3)	< 14.6× 3.06(4)

Steel - Resistance of Cross Sections

Plate Slenderness c/t

Beam	x[m]	SNo	LC	Plate	σ-a	σ-e	ψ	k-σ	c[mm]	t[mm]	c/t	c/t-lim
60024	0.000	6	2235	0700	-41.92	-4.37	0.10	7.10	58.3	1.5	38.85(3)	< 59.7× 2.37(4)
				0900	-3.51	9.16	-2.61	23.80	18.9	1.5	12.57(1)	< 102.× 8.18(4)
			2236	0100	-42.10	29.41	-0.70	16.98	177.0	1.5	118.02(3) ²	< 95.8× 2.36(4)
				0300	-11.56	29.23	-2.53	74.51	63.3	1.5	42.21(1)	< 348.× 4.51(4)
				0500	-25.05	-12.41	0.50	0.48	18.9	1.5	12.57(3)	< 14.6× 3.06(4)
				0700	-41.92	-4.37	0.10	7.10	58.3	1.5	38.85(3)	< 59.7× 2.37(4)
				0900	-3.51	9.16	-2.61	23.80	18.9	1.5	12.57(1)	< 102.× 8.18(4)
				2321	0100	-134.3	162.96	-1.21	29.30	177.0	1.5	118.02(3)
			0300		-133.6	25.74	-0.19	9.38	63.3	1.5	42.21(2)	< 69.3× 1.33(4)
				0900	-38.97	12.18	-0.31	0.64	18.9	1.5	12.57(2)	< 16.8× 2.46(4)
				2322	0100	-173.1	130.82	-0.76	18.15	177.0	1.5	118.02(4)
			0300		-36.83	130.13	-3.53	122.9	63.3	1.5	42.21(1)	< 528.× 2.53(4)
				0500	-93.14	-40.37	0.43	0.49	18.9	1.5	12.57(3)	< 14.7× 1.59(4)
				0700	-172.4	-18.68	0.11	7.08	58.3	1.5	38.85(3)	< 59.6× 1.17(4)
				0900	-15.15	37.75	-2.49	23.80	18.9	1.5	12.57(1)	< 102.× 3.94(4)
				2323	0100	-173.1	130.82	-0.76	18.15	177.0	1.5	118.02(4)
			0300		-36.83	130.13	-3.53	122.9	63.3	1.5	42.21(1)	< 528.× 2.53(4)
				0500	-93.14	-40.37	0.43	0.49	18.9	1.5	12.57(3)	< 14.7× 1.59(4)
				0700	-172.4	-18.68	0.11	7.08	58.3	1.5	38.85(3)	< 59.6× 1.17(4)
				0900	-15.15	37.75	-2.49	23.80	18.9	1.5	12.57(1)	< 102.× 3.94(4)
				2324	0100	-134.3	162.96	-1.21	29.30	177.0	1.5	118.02(3)
			0300		-133.6	25.74	-0.19	9.38	63.3	1.5	42.21(2)	< 69.3× 1.33(4)
				0900	-38.97	12.18	-0.31	0.64	18.9	1.5	12.57(2)	< 16.8× 2.46(4)
				2325	0100	-173.1	130.82	-0.76	18.15	177.0	1.5	118.02(4)
			0300		-36.83	130.13	-3.53	122.9	63.3	1.5	42.21(1)	< 528.× 2.53(4)
				0500	-93.14	-40.37	0.43	0.49	18.9	1.5	12.57(3)	< 14.7× 1.59(4)
				0700	-172.4	-18.68	0.11	7.08	58.3	1.5	38.85(3)	< 59.6× 1.17(4)
				0900	-15.15	37.75	-2.49	23.80	18.9	1.5	12.57(1)	< 102.× 3.94(4)
				2326	0100	-134.3	162.96	-1.21	29.30	177.0	1.5	118.02(3)
			0300		-133.6	25.74	-0.19	9.38	63.3	1.5	42.21(2)	< 69.3× 1.33(4)
				0900	-38.97	12.18	-0.31	0.64	18.9	1.5	12.57(2)	< 16.8× 2.46(4)
				2327	0100	-134.3	162.96	-1.21	29.30	177.0	1.5	118.02(3)
			0300		-133.6	25.74	-0.19	9.38	63.3	1.5	42.21(2)	< 69.3× 1.33(4)
				0900	-38.97	12.18	-0.31	0.64	18.9	1.5	12.57(2)	< 16.8× 2.46(4)
				2328	0100	-173.1	130.82	-0.76	18.15	177.0	1.5	118.02(4)
			0300		-36.83	130.13	-3.53	122.9	63.3	1.5	42.21(1)	< 528.× 2.53(4)
				0500	-93.14	-40.37	0.43	0.49	18.9	1.5	12.57(3)	< 14.7× 1.59(4)
				0700	-172.4	-18.68	0.11	7.08	58.3	1.5	38.85(3)	< 59.6× 1.17(4)
				0900	-15.15	37.75	-2.49	23.80	18.9	1.5	12.57(1)	< 102.× 3.94(4)
				2329	0100	-134.3	162.96	-1.21	29.30	177.0	1.5	118.02(3)
			0300		-133.6	25.74	-0.19	9.38	63.3	1.5	42.21(2)	< 69.3× 1.33(4)
				0900	-38.97	12.18	-0.31	0.64	18.9	1.5	12.57(2)	< 16.8× 2.46(4)
				2330	0100	-173.1	130.82	-0.76	18.15	177.0	1.5	118.02(4)
			0300		-36.83	130.13	-3.53	122.9	63.3	1.5	42.21(1)	< 528.× 2.53(4)
				0500	-93.14	-40.37	0.43	0.49	18.9	1.5	12.57(3)	< 14.7× 1.59(4)
				0700	-172.4	-18.68	0.11	7.08	58.3	1.5	38.85(3)	< 59.6× 1.17(4)
				0900	-15.15	37.75	-2.49	23.80	18.9	1.5	12.57(1)	< 102.× 3.94(4)
				2331	0100	-134.3	162.96	-1.21	29.30	177.0	1.5	118.02(3)
			0300		-133.6	25.74	-0.19	9.38	63.3	1.5	42.21(2)	< 69.3× 1.33(4)
				0900	-38.97	12.18	-0.31	0.64	18.9	1.5	12.57(2)	< 16.8× 2.46(4)
				2332	0100	-173.1	130.82	-0.76	18.15	177.0	1.5	118.02(4)
			0300		-36.83	130.13	-3.53	122.9	63.3	1.5	42.21(1)	< 528.× 2.53(4)
				0500	-93.14	-40.37	0.43	0.49	18.9	1.5	12.57(3)	< 14.7× 1.59(4)
				0700	-172.4	-18.68	0.11	7.08	58.3	1.5	38.85(3)	< 59.6× 1.17(4)
				0900	-15.15	37.75	-2.49	23.80	18.9	1.5	12.57(1)	< 102.× 3.94(4)
				2333	0100	-35.79	25.00	-0.70	16.98	177.0	1.5	118.02(3) ²
			0300		-9.82	24.85	-2.53	74.51	63.3	1.5	42.21(1)	< 348.× 4.89(4)
							0500	-21.29	-10.55	0.50	0.48	18.9

Steel - Resistance of Cross Sections

Plate Slenderness c/t

Beam	x[m]	SNo	LC	Plate	σ -a	σ -e	ψ	k- σ	c[mm]	t[mm]	c/t	c/t-lim	
60024	0.000	6	2333	0700	-35.63	-3.71	0.10	7.10	58.3	1.5	38.85(3)	< 59.7× 2.57(4)	
				0900	-2.99	7.79	-2.61	23.80	18.9	1.5	12.57(1)	< 102.× 8.87(4)	
				2334	0100	-35.79	25.00	-0.70	16.98	177.0	1.5	118.02(3) ²	< 95.8× 2.56(4)
					0300	-9.82	24.85	-2.53	74.51	63.3	1.5	42.21(1)	< 348.× 4.89(4)
					0500	-21.29	-10.55	0.50	0.48	18.9	1.5	12.57(3)	< 14.6× 3.32(4)
					0700	-35.63	-3.71	0.10	7.10	58.3	1.5	38.85(3)	< 59.7× 2.57(4)
					0900	-2.99	7.79	-2.61	23.80	18.9	1.5	12.57(1)	< 102.× 8.87(4)
			2335	0100	-35.79	25.00	-0.70	16.98	177.0	1.5	118.02(3) ²	< 95.8× 2.56(4)	
				0300	-9.82	24.85	-2.53	74.51	63.3	1.5	42.21(1)	< 348.× 4.89(4)	
				0500	-21.29	-10.55	0.50	0.48	18.9	1.5	12.57(3)	< 14.6× 3.32(4)	
				0700	-35.63	-3.71	0.10	7.10	58.3	1.5	38.85(3)	< 59.7× 2.57(4)	
				0900	-2.99	7.79	-2.61	23.80	18.9	1.5	12.57(1)	< 102.× 8.87(4)	
			2336	0100	-35.79	25.00	-0.70	16.98	177.0	1.5	118.02(3) ²	< 95.8× 2.56(4)	
				0300	-9.82	24.85	-2.53	74.51	63.3	1.5	42.21(1)	< 348.× 4.89(4)	
				0500	-21.29	-10.55	0.50	0.48	18.9	1.5	12.57(3)	< 14.6× 3.32(4)	
				0700	-35.63	-3.71	0.10	7.10	58.3	1.5	38.85(3)	< 59.7× 2.57(4)	
				0900	-2.99	7.79	-2.61	23.80	18.9	1.5	12.57(1)	< 102.× 8.87(4)	
		0.586	6	max	3.65 ¹	c/t-lim(1:4) = 34.94 40.24 64.47 146.5						118.02(3) ²	146.455(4)
		1.171	6	max	3.65 ¹	c/t-lim(1:4) = 51.60 59.45 83.25 137.0						118.02(3) ²	136.998(4)
		1.757	6	max	3.80 ¹	c/t-lim(1:4) = 58.84 67.81 94.59 123.9						118.02(3) ²	123.935(4)
		2.343	6	max	3.86 ¹	c/t-lim(1:4) = 59.87 69.00 96.43 121.6						118.02(3) ²	121.554(4)
		2.929	6	max	3.71 ¹	c/t-lim(1:4) = 57.34 66.07 92.02 128.9						118.02(3) ²	128.874(4)
		3.514	6	max	3.62 ¹	c/t-lim(1:4) = 40.58 46.74 69.94 147.9						118.02(3) ²	147.859(4)
		4.100	6	max	3.60 ¹	c/t-lim(1:4) = 54.46 62.75 87.43 138.2						118.02(3) ²	138.235(4)
60025	0.000	6	max	3.36 ¹	c/t-lim(1:4) = 61.90 71.34 100.2 150.2						118.02(3) ²	150.249(4)	
	0.600	6	max	3.32 ¹	c/t-lim(1:4) = 58.44 67.35 93.90 169.8						118.02(3) ²	169.805(4)	
	1.200	6	max	3.38 ¹	c/t-lim(1:4) = 66.02 76.09 108.8 133.0						118.02(3) ²	133.038(4)	
	1.800	6	max	3.44 ¹	c/t-lim(1:4) = 66.82 77.02 110.7 127.4						118.02(3) ²	127.422(4)	
	2.400	6	max	3.32 ¹	c/t-lim(1:4) = 65.05 74.98 106.7 142.4						118.02(3) ²	142.415(4)	
	3.000	6	max	3.41 ¹	c/t-lim(1:4) = 33.00 38.00 60.30 202.5						118.02(3) ²	202.481(4)	
	3.600	6	max	3.51 ¹	c/t-lim(1:4) = 66.37 76.50 109.6 126.1						118.02(3) ²	126.087(4)	
60026	0.000	6	max	3.72 ¹	c/t-lim(1:4) = 58.91 67.88 94.71 127.2						118.02(3) ²	127.222(4)	
	0.583	6	max	3.63 ¹	c/t-lim(1:4) = 33.00 38.00 61.67 151.1						118.02(3) ²	151.103(4)	
	1.167	6	max	3.59 ¹	c/t-lim(1:4) = 42.98 49.51 72.52 149.6						118.02(3) ²	149.597(4)	
	1.750	6	max	3.58 ¹	c/t-lim(1:4) = 49.59 57.13 80.50 144.9						118.02(3) ²	144.931(4)	
	2.333	6	max	3.60 ¹	c/t-lim(1:4) = 41.79 48.14 71.22 149.6						118.02(3) ²	149.610(4)	
	2.917	6	max	3.63 ¹	c/t-lim(1:4) = 35.09 40.41 64.60 150.0						118.02(3) ²	149.979(4)	
	3.500	6	max	3.77 ¹	c/t-lim(1:4) = 59.29 68.33 95.39 125.0						118.02(3) ²	124.967(4)	
60027	0.000	6	max	3.15 ¹	c/t-lim(1:4) = 67.51 77.81 112.3 150.5						118.02(3) ²	150.492(4)	
	0.583	6	max	3.19 ¹	c/t-lim(1:4) = 56.25 64.82 90.24 236.8						118.02(3) ²	236.812(4)	
	1.167	6	max	3.17 ¹	c/t-lim(1:4) = 58.46 67.36 93.92 232.9						118.02(3) ²	232.941(4)	
	1.750	6	max	3.15 ¹	c/t-lim(1:4) = 63.55 73.25 103.5 203.4						118.02(3) ²	203.360(4)	
	2.333	6	max	3.16 ¹	c/t-lim(1:4) = 61.02 70.32 98.55 220.2						118.02(3) ²	220.151(4)	
	2.917	6	max	3.25 ¹	c/t-lim(1:4) = 40.36 46.49 69.71 265.6						118.02(3) ²	265.585(4)	
	3.500	6	max	3.15 ¹	c/t-lim(1:4) = 66.45 76.59 109.8 165.1						118.02(3) ²	165.150(4)	
60028	0.000	6	max	3.09 ¹	c/t-lim(1:4) = 68.02 78.40 113.5 163.7						118.02(3) ²	163.690(4)	
	0.583	6	max	3.17 ¹	c/t-lim(1:4) = 51.99 59.91 83.80 285.1						118.02(3) ²	285.104(4)	
	1.167	6	max	3.12 ¹	c/t-lim(1:4) = 63.11 72.74 102.6 234.2						118.02(3) ²	234.192(4)	
	1.750	6	max	3.10 ¹	c/t-lim(1:4) = 65.71 75.74 108.2 207.2						118.02(3) ²	207.169(4)	
	2.333	6	max	3.12 ¹	c/t-lim(1:4) = 63.09 72.71 102.6 230.8						118.02(3) ²	230.815(4)	
	2.917	6	max	3.19 ¹	c/t-lim(1:4) = 47.81 55.08 78.21 286.5						118.02(3) ²	286.474(4)	
	3.500	6	max	3.11 ¹	c/t-lim(1:4) = 67.57 77.89 112.4 164.3						118.02(3) ²	164.329(4)	
60029	0.000	6	max	3.16 ¹	c/t-lim(1:4) = 66.21 76.31 109.3 165.2						118.02(3) ²	165.160(4)	
	0.583	6	max	3.26 ¹	c/t-lim(1:4) = 39.10 45.03 68.43 262.2						118.02(3) ²	262.202(4)	
	1.167	6	max	3.17 ¹	c/t-lim(1:4) = 60.62 69.86 97.80 219.5						118.02(3) ²	219.534(4)	
	1.750	6	max	3.15 ¹	c/t-lim(1:4) = 63.14 72.77 102.7 204.3						118.02(3) ²	204.308(4)	
	2.333	6	max	3.18 ¹	c/t-lim(1:4) = 57.05 65.74 91.54 236.9						118.02(3) ²	236.854(4)	
	2.917	6	max	3.19 ¹	c/t-lim(1:4) = 57.59 66.36 92.44 230.2						118.02(3) ²	230.186(4)	

Steel - Resistance of Cross Sections

Plate Slenderness c/t

Beam	x[m]	SNo	LC	Plate	σ_a	σ_e	ψ	k- σ	c[mm]	t[mm]	c/t	c/t-lim
60029	3.500	6	max	3.15 ¹	c/t-lim(1:4) = 67.65	77.98	112.6	147.8	118.02(3) ²	147.761(4)		
60030	0.000	6	max	3.25 ¹	c/t-lim(1:4) = 66.84	77.05	110.7	139.7	118.02(3) ²	139.705(4)		
	0.586	6	max	3.28 ¹	c/t-lim(1:4) = 45.67	52.61	75.60	224.7	118.02(3) ²	224.670(4)		
	1.171	6	max	3.21 ¹	c/t-lim(1:4) = 62.36	71.87	101.1	180.1	118.02(3) ²	180.089(4)		
	1.757	6	max	3.21 ¹	c/t-lim(1:4) = 65.99	76.07	108.8	152.1	118.02(3) ²	152.068(4)		
	2.343	6	max	3.23 ¹	c/t-lim(1:4) = 66.28	76.40	109.4	147.5	118.02(3) ²	147.532(4)		
	2.929	6	max	3.23 ¹	c/t-lim(1:4) = 64.41	74.24	105.3	160.5	118.02(3) ²	160.519(4)		
	3.514	6	max	3.29 ¹	c/t-lim(1:4) = 49.97	57.57	81.02	207.9	118.02(3) ²	207.863(4)		
	4.100	6	max	3.27 ¹	c/t-lim(1:4) = 62.05	71.52	100.5	165.0	118.02(3) ²	164.955(4)		
60031	0.000	6	max	3.04 ¹	c/t-lim(1:4) = 68.99	79.52	115.9	169.0	118.02(3) ²	168.954(4)		
	0.583	6	max	3.12 ¹	c/t-lim(1:4) = 57.27	66.00	91.91	315.4	118.02(3) ²	315.395(4)		
	1.167	6	max	3.08 ¹	c/t-lim(1:4) = 65.05	74.98	106.7	257.0	118.02(3) ²	256.967(4)		
	1.750	6	max	3.06 ¹	c/t-lim(1:4) = 67.12	77.37	111.4	225.5	118.02(3) ²	225.506(4)		
	2.333	6	max	3.08 ¹	c/t-lim(1:4) = 64.31	74.12	105.1	262.9	118.02(3) ²	262.873(4)		
	2.917	6	max	3.11 ¹	c/t-lim(1:4) = 60.13	69.29	96.89	290.1	118.02(3) ²	290.054(4)		
	3.500	6	max	3.04 ¹	c/t-lim(1:4) = 69.02	79.57	116.0	162.3	118.02(3) ²	162.332(4)		
60032	0.000	6	max	3.19 ¹	c/t-lim(1:4) = 65.46	75.45	107.6	162.7	118.02(3) ²	162.650(4)		
	0.583	6	max	3.30 ¹	c/t-lim(1:4) = 33.00	38.00	62.15	246.4	118.02(3) ²	246.398(4)		
	1.167	6	max	3.19 ¹	c/t-lim(1:4) = 59.95	69.08	96.56	207.6	118.02(3) ²	207.560(4)		
	1.750	6	max	3.18 ¹	c/t-lim(1:4) = 62.57	72.11	101.5	193.2	118.02(3) ²	193.239(4)		
	2.333	6	max	3.21 ¹	c/t-lim(1:4) = 57.50	66.26	92.29	217.3	118.02(3) ²	217.302(4)		
	2.917	6	max	3.23 ¹	c/t-lim(1:4) = 51.96	59.87	83.75	229.7	118.02(3) ²	229.747(4)		
	3.500	6	max	3.20 ¹	c/t-lim(1:4) = 66.64	76.82	110.3	149.0	118.02(3) ²	149.036(4)		
60033	0.000	6	max	3.14 ¹	c/t-lim(1:4) = 67.45	77.75	112.1	153.2	118.02(3) ²	153.212(4)		
	0.583	6	max	3.19 ¹	c/t-lim(1:4) = 55.16	63.56	88.50	241.4	118.02(3) ²	241.374(4)		
	1.167	6	max	3.18 ¹	c/t-lim(1:4) = 58.40	67.30	93.82	231.8	118.02(3) ²	231.767(4)		
	1.750	6	max	3.15 ¹	c/t-lim(1:4) = 63.01	72.63	102.4	204.3	118.02(3) ²	204.286(4)		
	2.333	6	max	3.18 ¹	c/t-lim(1:4) = 59.42	68.48	95.62	223.2	118.02(3) ²	223.174(4)		
	2.917	6	max	3.23 ¹	c/t-lim(1:4) = 47.29	54.48	77.57	252.0	118.02(3) ²	252.011(4)		
	3.500	6	max	3.17 ¹	c/t-lim(1:4) = 66.48	76.62	109.9	158.2	118.02(3) ²	158.250(4)		
60034	0.000	6	max	3.09 ¹	c/t-lim(1:4) = 67.85	78.21	113.1	168.1	118.02(3) ²	168.134(4)		
	0.583	6	max	3.17 ¹	c/t-lim(1:4) = 49.89	57.48	80.90	297.0	118.02(3) ²	296.965(4)		
	1.167	6	max	3.11 ¹	c/t-lim(1:4) = 63.45	73.13	103.3	240.3	118.02(3) ²	240.267(4)		
	1.750	6	max	3.09 ¹	c/t-lim(1:4) = 65.79	75.84	108.3	217.5	118.02(3) ²	217.510(4)		
	2.333	6	max	3.11 ¹	c/t-lim(1:4) = 62.12	71.60	100.7	255.1	118.02(3) ²	255.092(4)		
	2.917	6	max	3.13 ¹	c/t-lim(1:4) = 59.75	68.86	96.21	266.2	118.02(3) ²	266.192(4)		
	3.500	6	max	3.07 ¹	c/t-lim(1:4) = 68.72	79.21	115.2	157.2	118.02(3) ²	157.249(4)		
60035	0.000	6	max	3.10 ¹	c/t-lim(1:4) = 67.96	78.34	113.4	160.4	118.02(3) ²	160.378(4)		
	0.583	6	max	3.17 ¹	c/t-lim(1:4) = 53.67	61.84	86.24	274.0	118.02(3) ²	273.971(4)		
	1.167	6	max	3.12 ¹	c/t-lim(1:4) = 62.55	72.08	101.5	234.6	118.02(3) ²	234.639(4)		
	1.750	6	max	3.10 ¹	c/t-lim(1:4) = 65.57	75.58	107.8	206.2	118.02(3) ²	206.243(4)		
	2.333	6	max	3.12 ¹	c/t-lim(1:4) = 63.25	72.89	102.9	227.8	118.02(3) ²	227.792(4)		
	2.917	6	max	3.20 ¹	c/t-lim(1:4) = 44.59	51.36	74.33	289.4	118.02(3) ²	289.441(4)		
	3.500	6	max	3.11 ¹	c/t-lim(1:4) = 67.42	77.72	112.1	167.0	118.02(3) ²	167.031(4)		
60036	0.000	6	max	3.11 ¹	c/t-lim(1:4) = 67.66	77.99	112.7	159.4	118.02(3) ²	159.380(4)		
	0.583	6	max	3.18 ¹	c/t-lim(1:4) = 53.72	61.89	86.31	264.0	118.02(3) ²	263.979(4)		
	1.167	6	max	3.14 ¹	c/t-lim(1:4) = 61.14	70.46	98.77	236.4	118.02(3) ²	236.440(4)		
	1.750	6	max	3.12 ¹	c/t-lim(1:4) = 64.56	74.42	105.7	210.2	118.02(3) ²	210.201(4)		
	2.333	6	max	3.14 ¹	c/t-lim(1:4) = 61.20	70.53	98.89	236.2	118.02(3) ²	236.181(4)		
	2.917	6	max	3.18 ¹	c/t-lim(1:4) = 53.48	61.62	85.95	265.0	118.02(3) ²	264.996(4)		
	3.500	6	max	3.11 ¹	c/t-lim(1:4) = 67.65	77.98	112.6	159.8	118.02(3) ²	159.752(4)		
60037	0.000	6	max	3.14 ¹	c/t-lim(1:4) = 67.36	77.65	111.9	155.8	118.02(3) ²	155.758(4)		
	0.583	6	max	3.19 ¹	c/t-lim(1:4) = 54.05	62.28	86.81	248.9	118.02(3) ²	248.889(4)		
	1.167	6	max	3.16 ¹	c/t-lim(1:4) = 59.33	68.38	95.46	233.2	118.02(3) ²	233.199(4)		
	1.750	6	max	3.14 ¹	c/t-lim(1:4) = 63.47	73.16	103.4	207.6	118.02(3) ²	207.573(4)		
	2.333	6	max	3.16 ¹	c/t-lim(1:4) = 59.69	68.79	96.11	231.0	118.02(3) ²	231.030(4)		
	2.917	6	max	3.20 ¹	c/t-lim(1:4) = 52.31	60.27	84.25	252.8	118.02(3) ²	252.846(4)		
	3.500	6	max	3.14 ¹	c/t-lim(1:4) = 67.18	77.44	111.5	157.6	118.02(3) ²	157.605(4)		

Steel - Resistance of Cross Sections

Plate Slenderness c/t

Beam	x[m]	SNo	LC	Plate	σ_a	σ_e	ψ	k- σ	c[mm]	t[mm]	c/t	c/t-lim
60038	0.000	6	max	3.13 ¹	c/t-lim(1:4) = 67.06 77.30 111.2 164.0							
	0.583	6	max	3.21 ¹	c/t-lim(1:4) = 45.64 52.57 75.56 273.6							
	1.167	6	max	3.14 ¹	c/t-lim(1:4) = 61.98 71.43 100.4 225.7							
	1.750	6	max	3.12 ¹	c/t-lim(1:4) = 64.67 74.54 105.9 205.2							
	2.333	6	max	3.14 ¹	c/t-lim(1:4) = 61.09 70.41 98.69 233.1							
	2.917	6	max	3.18 ¹	c/t-lim(1:4) = 54.17 62.41 86.98 259.6							
	3.500	6	max	3.12 ¹	c/t-lim(1:4) = 67.71 78.05 112.8 157.4							
60039	0.000	6	max	3.12 ¹	c/t-lim(1:4) = 66.96 77.19 111.0 171.5							
	0.600	6	max	3.11 ¹	c/t-lim(1:4) = 65.52 75.53 107.7 205.5							
	1.200	6	max	3.03 ¹	c/t-lim(1:4) = 68.48 78.93 114.6 227.4							
	1.800	6	max	3.02 ¹	c/t-lim(1:4) = 69.02 79.56 116.0 218.0							
	2.400	6	max	3.04 ¹	c/t-lim(1:4) = 67.77 78.12 112.9 254.5							
	3.000	6	max	3.15 ¹	c/t-lim(1:4) = 53.90 62.11 86.59 298.5							
	3.600	6	max	3.04 ¹	c/t-lim(1:4) = 69.43 80.03 117.0 140.2							
60040	0.000	6	max	3.09 ¹	c/t-lim(1:4) = 68.26 78.68 114.1 156.2							
	0.583	6	max	3.15 ¹	c/t-lim(1:4) = 57.88 66.70 92.93 259.1							
	1.167	6	max	3.13 ¹	c/t-lim(1:4) = 61.15 70.48 98.80 245.8							
	1.750	6	max	3.11 ¹	c/t-lim(1:4) = 65.06 74.99 106.7 212.4							
	2.333	6	max	3.13 ¹	c/t-lim(1:4) = 62.50 72.03 101.4 234.0							
	2.917	6	max	3.19 ¹	c/t-lim(1:4) = 48.45 55.82 79.02 283.5							
	3.500	6	max	3.11 ¹	c/t-lim(1:4) = 67.47 77.77 112.2 165.9							
60041	0.000	6	max	3.01 ¹	c/t-lim(1:4) = 69.74 80.39 117.8 150.2							
	0.586	6	max	3.11 ¹	c/t-lim(1:4) = 59.47 68.53 95.70 305.7							
	1.171	6	max	3.05 ¹	c/t-lim(1:4) = 67.92 78.30 113.3 210.8							
	1.757	6	max	3.01 ¹	c/t-lim(1:4) = 69.61 80.24 117.5 168.0							
	2.343	6	max	3.01 ¹	c/t-lim(1:4) = 69.63 80.26 117.5 193.3							
	2.929	6	max	3.04 ¹	c/t-lim(1:4) = 68.82 79.33 115.5 178.7							
	3.514	6	max	3.11 ¹	c/t-lim(1:4) = 61.86 71.30 100.2 262.3							
	4.100	6	max	3.09 ¹	c/t-lim(1:4) = 66.68 76.86 110.3 193.7							
60042	0.000	6	max	3.40 ¹	c/t-lim(1:4) = 61.72 71.13 99.88 145.4							
	0.600	6	max	3.35 ¹	c/t-lim(1:4) = 56.91 65.58 91.32 167.6							
	1.200	6	max	3.43 ¹	c/t-lim(1:4) = 65.57 75.57 107.8 131.4							
	1.800	6	max	3.52 ¹	c/t-lim(1:4) = 66.51 76.66 110.0 125.4							
	2.400	6	max	3.36 ¹	c/t-lim(1:4) = 64.84 74.74 106.3 138.7							
	3.000	6	max	3.39 ¹	c/t-lim(1:4) = 39.75 45.78 69.08 194.6							
	3.600	6	max	3.51 ¹	c/t-lim(1:4) = 65.72 75.75 108.2 127.5							
60043	0.000	6	max	3.31 ¹	c/t-lim(1:4) = 51.61 59.46 83.25 195.2							
	0.583	6	max	3.44 ¹	c/t-lim(1:4) = 33.00 38.00 48.79 204.5							
	1.167	6	max	3.36 ¹	c/t-lim(1:4) = 38.25 44.06 67.59 209.4							
	1.750	6	max	3.34 ¹	c/t-lim(1:4) = 43.18 49.74 72.74 207.5							
	2.333	6	max	3.37 ¹	c/t-lim(1:4) = 33.14 38.16 62.87 210.4							
	2.917	6	max	3.38 ¹	c/t-lim(1:4) = 33.00 38.00 61.65 209.7							
	3.500	6	max	3.29 ¹	c/t-lim(1:4) = 55.54 64.00 89.11 187.4							
60044	0.000	6	max	3.30 ¹	c/t-lim(1:4) = 66.74 76.93 110.5 135.8							
	0.586	6	max	3.29 ¹	c/t-lim(1:4) = 48.82 56.24 79.49 214.0							
	1.171	6	max	3.23 ¹	c/t-lim(1:4) = 61.52 70.90 99.49 180.2							
	1.757	6	max	3.23 ¹	c/t-lim(1:4) = 65.76 75.79 108.3 151.4							
	2.343	6	max	3.24 ¹	c/t-lim(1:4) = 66.24 76.36 109.4 146.2							
	2.929	6	max	3.23 ¹	c/t-lim(1:4) = 64.67 74.53 105.9 157.9							
	3.514	6	max	3.28 ¹	c/t-lim(1:4) = 53.39 61.52 85.83 201.8							
	4.100	6	max	3.27 ¹	c/t-lim(1:4) = 61.14 70.46 98.78 170.6							
60045	0.000	6	max	3.16 ¹	c/t-lim(1:4) = 66.57 76.73 110.1 158.4							
	0.583	6	max	3.23 ¹	c/t-lim(1:4) = 48.03 55.33 78.49 251.4							
	1.167	6	max	3.17 ¹	c/t-lim(1:4) = 59.81 68.92 96.31 223.2							
	1.750	6	max	3.15 ¹	c/t-lim(1:4) = 63.35 73.02 103.1 203.6							
	2.333	6	max	3.17 ¹	c/t-lim(1:4) = 59.23 68.25 95.27 230.1							
	2.917	6	max	3.19 ¹	c/t-lim(1:4) = 54.07 62.30 86.84 247.1							
	3.500	6	max	3.14 ¹	c/t-lim(1:4) = 67.42 77.72 112.1 155.0							

Steel - Resistance of Cross Sections

Plate Slenderness c/t

Beam	x[m]	SNo	LC	Plate	σ -a	σ -e	ψ	k- σ	c[mm]	t[mm]	c/t	c/t-lim
60046	0.000	6	max	3.09 ¹	c/t-lim(1:4) = 68.20	78.62	114.0	157.9	118.02(3) ²		157.896(4)	
	0.583	6	max	3.15 ¹	c/t-lim(1:4) = 56.24	64.81	90.23	269.8	118.02(3) ²		269.770(4)	
	1.167	6	max	3.12 ¹	c/t-lim(1:4) = 62.53	72.07	101.5	240.2	118.02(3) ²		240.184(4)	
	1.750	6	max	3.10 ¹	c/t-lim(1:4) = 65.87	75.93	108.5	208.5	118.02(3) ²		208.495(4)	
	2.333	6	max	3.11 ¹	c/t-lim(1:4) = 63.94	73.69	104.3	229.0	118.02(3) ²		229.017(4)	
	2.917	6	max	3.21 ¹	c/t-lim(1:4) = 39.50	45.49	68.83	304.9	118.02(3) ²		304.927(4)	
	3.500	6	max	3.10 ¹	c/t-lim(1:4) = 67.58	77.89	112.4	171.1	118.02(3) ²		171.101(4)	
60047	0.000	6	max	3.04 ¹	c/t-lim(1:4) = 69.14	79.71	116.3	162.5	118.02(3) ²		162.457(4)	
	0.583	6	max	3.10 ¹	c/t-lim(1:4) = 60.74	70.00	98.03	292.2	118.02(3) ²		292.159(4)	
	1.167	6	max	3.08 ¹	c/t-lim(1:4) = 64.62	74.49	105.8	265.9	118.02(3) ²		265.896(4)	
	1.750	6	max	3.05 ¹	c/t-lim(1:4) = 67.38	77.67	112.0	227.1	118.02(3) ²		227.113(4)	
	2.333	6	max	3.07 ¹	c/t-lim(1:4) = 65.46	75.45	107.6	259.1	118.02(3) ²		259.101(4)	
	2.917	6	max	3.11 ¹	c/t-lim(1:4) = 57.69	66.48	92.61	322.8	118.02(3) ²		322.814(4)	
	3.500	6	max	3.03 ¹	c/t-lim(1:4) = 69.13	79.69	116.3	170.1	118.02(3) ²		170.135(4)	
60048	0.000	6	max	3.94 ¹	c/t-lim(1:4) = 58.27	67.15	93.61	119.7	118.02(3) ²		119.689(4)	
	0.583	6	max	3.71 ¹	c/t-lim(1:4) = 34.72	39.98	64.26	140.5	118.02(3) ²		140.465(4)	
	1.167	6	max	3.69 ¹	c/t-lim(1:4) = 38.62	44.48	67.95	140.8	118.02(3) ²		140.818(4)	
	1.750	6	max	3.68 ¹	c/t-lim(1:4) = 47.38	54.58	77.67	137.3	118.02(3) ²		137.265(4)	
	2.333	6	max	3.68 ¹	c/t-lim(1:4) = 41.11	47.35	70.50	140.4	118.02(3) ²		140.428(4)	
	2.917	6	max	3.72 ¹	c/t-lim(1:4) = 33.00	38.00	57.95	140.8	118.02(3) ²		140.845(4)	
	3.500	6	max	3.84 ¹	c/t-lim(1:4) = 57.18	65.89	91.75	123.1	118.02(3) ²		123.069(4)	
60049	0.000	6	max	3.19 ¹	c/t-lim(1:4) = 66.13	76.23	109.1	155.8	118.02(3) ²		155.808(4)	
	0.583	6	max	3.25 ¹	c/t-lim(1:4) = 45.77	52.73	75.72	242.1	118.02(3) ²		242.149(4)	
	1.167	6	max	3.19 ¹	c/t-lim(1:4) = 59.09	68.10	95.03	214.7	118.02(3) ²		214.705(4)	
	1.750	6	max	3.17 ¹	c/t-lim(1:4) = 62.84	72.43	102.1	195.9	118.02(3) ²		195.920(4)	
	2.333	6	max	3.19 ¹	c/t-lim(1:4) = 59.04	68.03	94.94	217.8	118.02(3) ²		217.817(4)	
	2.917	6	max	3.24 ¹	c/t-lim(1:4) = 48.47	55.84	79.05	244.4	118.02(3) ²		244.408(4)	
	3.500	6	max	3.17 ¹	c/t-lim(1:4) = 66.66	76.83	110.3	155.5	118.02(3) ²		155.524(4)	
60050	0.000	6	max	3.85 ¹	c/t-lim(1:4) = 57.42	66.16	92.15	122.6	118.02(3) ²		122.630(4)	
	0.583	6	max	3.76 ¹	c/t-lim(1:4) = 33.00	38.00	54.25	138.0	118.02(3) ²		138.026(4)	
	1.167	6	max	3.71 ¹	c/t-lim(1:4) = 44.35	51.09	74.06	135.7	118.02(3) ²		135.735(4)	
	1.750	6	max	3.73 ¹	c/t-lim(1:4) = 50.07	57.69	81.15	131.4	118.02(3) ²		131.406(4)	
	2.333	6	max	3.71 ¹	c/t-lim(1:4) = 44.58	51.35	74.31	135.7	118.02(3) ²		135.705(4)	
	2.917	6	max	3.76 ¹	c/t-lim(1:4) = 33.00	38.00	53.35	137.9	118.02(3) ²		137.931(4)	
	3.500	6	max	3.84 ¹	c/t-lim(1:4) = 57.28	66.01	91.93	123.1	118.02(3) ²		123.144(4)	
60051	0.000	6	max	3.50 ¹	c/t-lim(1:4) = 53.66	61.82	86.22	149.4	118.02(3) ²		149.370(4)	
	0.600	6	max	3.53 ¹	c/t-lim(1:4) = 43.69	50.32	73.30	156.9	118.02(3) ²		156.933(4)	
	1.200	6	max	3.56 ¹	c/t-lim(1:4) = 57.38	66.12	92.09	138.0	118.02(3) ²		137.996(4)	
	1.800	6	max	3.60 ¹	c/t-lim(1:4) = 58.73	67.68	94.40	133.8	118.02(3) ²		133.786(4)	
	2.400	6	max	3.55 ¹	c/t-lim(1:4) = 54.55	62.85	87.56	142.9	118.02(3) ²		142.860(4)	
	3.000	6	max	3.71 ¹	c/t-lim(1:4) = 33.00	38.00	42.17	149.2	118.02(3) ²		149.245(4)	
	3.600	6	max	3.62 ¹	c/t-lim(1:4) = 60.22	69.40	97.07	131.1	118.02(3) ²		131.078(4)	
60052	0.000	6	max	3.30 ¹	c/t-lim(1:4) = 64.85	74.74	106.3	145.5	118.02(3) ²		145.544(4)	
	0.583	6	max	3.32 ¹	c/t-lim(1:4) = 46.23	53.26	76.27	206.8	118.02(3) ²		206.814(4)	
	1.167	6	max	3.29 ¹	c/t-lim(1:4) = 53.06	61.14	85.34	198.7	118.02(3) ²		198.741(4)	
	1.750	6	max	3.27 ¹	c/t-lim(1:4) = 58.72	67.66	94.37	183.6	118.02(3) ²		183.558(4)	
	2.333	6	max	3.29 ¹	c/t-lim(1:4) = 53.44	61.57	85.89	197.6	118.02(3) ²		197.649(4)	
	2.917	6	max	3.33 ¹	c/t-lim(1:4) = 44.52	51.28	74.25	207.7	118.02(3) ²		207.669(4)	
	3.500	6	max	3.30 ¹	c/t-lim(1:4) = 64.61	74.47	105.8	146.6	118.02(3) ²		146.610(4)	
60053	0.000	6	max	3.13 ¹	c/t-lim(1:4) = 67.33	77.61	111.9	157.6	118.02(3) ²		157.582(4)	
	0.583	6	max	3.19 ¹	c/t-lim(1:4) = 52.54	60.54	84.59	256.1	118.02(3) ²		256.064(4)	
	1.167	6	max	3.16 ¹	c/t-lim(1:4) = 60.13	69.30	96.90	232.0	118.02(3) ²		232.038(4)	
	1.750	6	max	3.13 ¹	c/t-lim(1:4) = 63.87	73.61	104.2	207.3	118.02(3) ²		207.346(4)	
	2.333	6	max	3.16 ¹	c/t-lim(1:4) = 60.22	69.40	97.06	231.9	118.02(3) ²		231.940(4)	
	2.917	6	max	3.19 ¹	c/t-lim(1:4) = 52.35	60.32	84.31	257.4	118.02(3) ²		257.375(4)	
	3.500	6	max	3.13 ¹	c/t-lim(1:4) = 67.35	77.64	111.9	158.0	118.02(3) ²		158.029(4)	
60054	0.000	6	max	2.92 ¹	c/t-lim(1:4) = 70.99	81.84	121.2	173.3	118.02(3)		173.322(4)	
	0.583	6	max	3.02 ¹	c/t-lim(1:4) = 68.05	78.44	113.6	385.6	118.02(3) ²		385.637(4)	

Steel - Resistance of Cross Sections

Plate Slenderness c/t

Beam	x[m]	SNo	LC	Plate	σ_a	σ_e	ψ	k- σ	c[mm]	t[mm]	c/t	c/t-lim
60054	1.167	6	max	2.96 ¹	c/t-lim(1:4) = 70.42	81.18	119.6	295.1	118.02(3)	295.064(4)		
	1.750	6	max	2.92 ¹	c/t-lim(1:4) = 71.07	81.93	121.4	241.8	118.02(3)	241.825(4)		
	2.333	6	max	2.95 ¹	c/t-lim(1:4) = 70.53	81.30	119.9	279.6	118.02(3)	279.616(4)		
	2.917	6	max	3.03 ¹	c/t-lim(1:4) = 64.28	74.09	105.1	489.0	118.02(3) ²	488.977(4)		
	3.500	6	max	2.93 ¹	c/t-lim(1:4) = 70.78	81.59	120.6	183.6	118.02(3)	183.635(4)		
60055	0.000	6	max	3.77 ¹	c/t-lim(1:4) = 57.83	66.64	92.84	125.6	118.02(3) ²	125.607(4)		
	0.583	6	max	3.72 ¹	c/t-lim(1:4) = 33.00	38.00	55.36	142.4	118.02(3) ²	142.390(4)		
	1.167	6	max	3.67 ¹	c/t-lim(1:4) = 43.71	50.35	73.33	139.8	118.02(3) ²	139.787(4)		
	1.750	6	max	3.68 ¹	c/t-lim(1:4) = 48.98	56.43	79.71	135.8	118.02(3) ²	135.815(4)		
	2.333	6	max	3.68 ¹	c/t-lim(1:4) = 40.75	46.93	70.11	140.6	118.02(3) ²	140.605(4)		
60056	2.917	6	max	3.69 ¹	c/t-lim(1:4) = 35.14	40.46	64.64	142.3	118.02(3) ²	142.345(4)		
	3.500	6	max	3.90 ¹	c/t-lim(1:4) = 59.45	68.51	95.67	120.6	118.02(3) ²	120.630(4)		
	0.000	6	max	3.86 ¹	c/t-lim(1:4) = 62.17	71.65	100.8	120.9	118.02(3) ²	120.913(4)		
	0.586	6	max	3.62 ¹	c/t-lim(1:4) = 33.00	38.00	61.12	153.4	118.02(3) ²	153.376(4)		
	1.171	6	max	3.59 ¹	c/t-lim(1:4) = 53.84	62.03	86.49	140.1	118.02(3) ²	140.118(4)		
60057	1.757	6	max	3.72 ¹	c/t-lim(1:4) = 60.03	69.18	96.71	126.2	118.02(3) ²	126.226(4)		
	2.343	6	max	3.77 ¹	c/t-lim(1:4) = 60.84	70.12	98.22	124.1	118.02(3) ²	124.076(4)		
	2.929	6	max	3.63 ¹	c/t-lim(1:4) = 58.31	67.19	93.67	132.5	118.02(3) ²	132.504(4)		
	3.514	6	max	3.56 ¹	c/t-lim(1:4) = 40.94	47.16	70.32	154.8	118.02(3) ²	154.763(4)		
	4.100	6	max	3.54 ¹	c/t-lim(1:4) = 56.35	64.93	90.40	141.4	118.02(3) ²	141.352(4)		
60058	0.000	6	max	3.04 ¹	c/t-lim(1:4) = 68.99	79.52	115.9	168.2	118.02(3) ²	168.239(4)		
	0.583	6	max	3.12 ¹	c/t-lim(1:4) = 56.41	65.00	90.49	317.2	118.02(3) ²	317.201(4)		
	1.167	6	max	3.08 ¹	c/t-lim(1:4) = 65.15	75.09	106.9	252.1	118.02(3) ²	252.131(4)		
	1.750	6	max	3.06 ¹	c/t-lim(1:4) = 67.27	77.54	111.7	219.1	118.02(3) ²	219.129(4)		
	2.333	6	max	3.08 ¹	c/t-lim(1:4) = 65.07	75.01	106.8	248.6	118.02(3) ²	248.568(4)		
60059	2.917	6	max	3.13 ¹	c/t-lim(1:4) = 54.53	62.83	87.53	313.5	118.02(3) ²	313.480(4)		
	3.500	6	max	3.06 ¹	c/t-lim(1:4) = 68.63	79.11	115.0	167.9	118.02(3) ²	167.859(4)		
	0.000	6	max	2.88 ¹	c/t-lim(1:4) = 71.65	82.60	123.0	383.5	118.02(3)	383.486(4)		
	0.583	6	max	3.01 ¹	c/t-lim(1:4) = 68.43	78.88	114.5	382.1	118.02(3) ²	382.112(4)		
	1.167	6	max	3.01 ¹	c/t-lim(1:4) = 69.46	80.07	117.1	288.3	118.02(3) ²	288.299(4)		
60060	1.750	6	max	2.98 ¹	c/t-lim(1:4) = 70.10	80.81	118.8	525.8	118.02(3)	525.751(4)		
	2.333	6	max	3.01 ¹	c/t-lim(1:4) = 69.43	80.03	117.0	288.8	118.02(3) ²	288.818(4)		
	2.917	6	max	3.01 ¹	c/t-lim(1:4) = 68.43	78.88	114.5	378.2	118.02(3) ²	378.249(4)		
	3.500	6	max	2.88 ¹	c/t-lim(1:4) = 71.63	82.57	122.9	381.0	118.02(3)	381.001(4)		
	0.000	6	max	3.09 ¹	c/t-lim(1:4) = 68.04	78.43	113.6	162.0	118.02(3) ²	161.979(4)		
60061	0.583	6	max	3.16 ¹	c/t-lim(1:4) = 54.01	62.23	86.74	277.7	118.02(3) ²	277.673(4)		
	1.167	6	max	3.13 ¹	c/t-lim(1:4) = 61.81	71.24	100.1	243.3	118.02(3) ²	243.341(4)		
	1.750	6	max	3.11 ¹	c/t-lim(1:4) = 64.89	74.79	106.4	215.8	118.02(3) ²	215.850(4)		
	2.333	6	max	3.13 ¹	c/t-lim(1:4) = 61.05	70.35	98.60	245.7	118.02(3) ²	245.741(4)		
	2.917	6	max	3.16 ¹	c/t-lim(1:4) = 56.36	64.95	90.42	262.3	118.02(3) ²	262.286(4)		
60062	3.500	6	max	3.10 ¹	c/t-lim(1:4) = 67.97	78.35	113.4	157.8	118.02(3) ²	157.781(4)		
	0.000	6	max	3.26 ¹	c/t-lim(1:4) = 66.30	76.43	109.5	142.8	118.02(3) ²	142.764(4)		
	0.583	6	max	3.26 ¹	c/t-lim(1:4) = 53.84	62.04	86.49	207.8	118.02(3) ²	207.793(4)		
	1.167	6	max	3.27 ¹	c/t-lim(1:4) = 50.82	58.55	82.16	215.4	118.02(3) ²	215.435(4)		
	1.750	6	max	3.24 ¹	c/t-lim(1:4) = 58.85	67.82	94.62	193.4	118.02(3) ²	193.404(4)		
60063	2.333	6	max	3.26 ¹	c/t-lim(1:4) = 54.12	62.36	86.92	206.0	118.02(3) ²	206.016(4)		
	2.917	6	max	3.31 ¹	c/t-lim(1:4) = 44.42	51.17	74.14	216.2	118.02(3) ²	216.210(4)		
	3.500	6	max	3.27 ¹	c/t-lim(1:4) = 64.77	74.66	106.1	150.7	118.02(3) ²	150.651(4)		
	0.000	6	max	2.97 ¹	c/t-lim(1:4) = 70.23	80.96	119.1	212.3	118.02(3)	212.309(4)		
	0.583	6	max	3.05 ¹	c/t-lim(1:4) = 61.88	71.32	100.2	483.7	118.02(3) ²	483.656(4)		
60064	1.167	6	max	3.01 ¹	c/t-lim(1:4) = 69.00	79.54	115.9	328.1	118.02(3) ²	328.059(4)		
	1.750	6	max	2.99 ¹	c/t-lim(1:4) = 70.01	80.71	118.5	283.1	118.02(3)	283.145(4)		
	2.333	6	max	3.01 ¹	c/t-lim(1:4) = 68.90	79.42	115.7	338.1	118.02(3) ²	338.109(4)		
	2.917	6	max	3.04 ¹	c/t-lim(1:4) = 64.82	74.71	106.2	442.8	118.02(3) ²	442.758(4)		
	3.500	6	max	2.96 ¹	c/t-lim(1:4) = 70.45	81.21	119.7	206.1	118.02(3)	206.072(4)		
60065	0.000	6	max	3.17 ¹	c/t-lim(1:4) = 67.85	78.21	113.1	142.0	118.02(3) ²	141.995(4)		
	0.586	6	max	3.22 ¹	c/t-lim(1:4) = 51.06	58.83	82.50	242.8	118.02(3) ²	242.766(4)		
	1.171	6	max	3.16 ¹	c/t-lim(1:4) = 63.57	73.26	103.6	191.9	118.02(3) ²	191.854(4)		

Steel - Resistance of Cross Sections

Plate Slenderness c/t

Beam	x[m]	SNo	LC	Plate	σ_a	σ_e	ψ	k- σ	c[mm]	t[mm]	c/t	c/t-lim
60062	1.757	6	max	3.15 ¹	c/t-lim(1:4) = 66.88 77.09 110.8 158.9							
	2.343	6	max	3.16 ¹	c/t-lim(1:4) = 67.09 77.33 111.3 153.8							
	2.929	6	max	3.17 ¹	c/t-lim(1:4) = 65.30 75.27 107.3 168.9							
	3.514	6	max	3.26 ¹	c/t-lim(1:4) = 49.47 57.00 80.35 227.9							
	4.100	6	max	3.22 ¹	c/t-lim(1:4) = 63.82 73.55 104.1 167.7							
60063	0.000	6	max	3.20 ¹	c/t-lim(1:4) = 65.34 75.31 107.3 161.1							
	0.583	6	max	3.29 ¹	c/t-lim(1:4) = 38.24 44.04 67.58 241.6							
	1.167	6	max	3.21 ¹	c/t-lim(1:4) = 58.04 66.88 93.20 213.6							
	1.750	6	max	3.19 ¹	c/t-lim(1:4) = 61.17 70.50 98.84 199.3							
	2.333	6	max	3.23 ¹	c/t-lim(1:4) = 52.76 60.79 84.90 229.7							
	2.917	6	max	3.22 ¹	c/t-lim(1:4) = 57.16 65.86 91.72 212.7							
	3.500	6	max	3.21 ¹	c/t-lim(1:4) = 67.09 77.33 111.3 143.1							
60064	0.000	6	max	3.43 ¹	c/t-lim(1:4) = 61.28 70.62 99.04 142.7							
	0.600	6	max	3.38 ¹	c/t-lim(1:4) = 55.25 63.66 88.64 166.1							
	1.200	6	max	3.46 ¹	c/t-lim(1:4) = 64.83 74.72 106.2 132.0							
	1.800	6	max	3.53 ¹	c/t-lim(1:4) = 65.81 75.85 108.4 126.6							
	2.400	6	max	3.38 ¹	c/t-lim(1:4) = 63.65 73.35 103.7 141.2							
	3.000	6	max	3.51 ¹	c/t-lim(1:4) = 33.00 38.00 48.25 184.3							
	3.600	6	max	3.71 ¹	c/t-lim(1:4) = 65.91 75.98 108.6 121.9							
60065	0.000	6	max	2.96 ¹	c/t-lim(1:4) = 70.47 81.24 119.8 250.2							
	0.586	6	max	3.04 ¹	c/t-lim(1:4) = 66.35 76.48 109.6 336.8							
	1.171	6	max	3.02 ¹	c/t-lim(1:4) = 68.51 78.98 114.7 288.6							
	1.757	6	max	2.98 ¹	c/t-lim(1:4) = 70.10 80.81 118.8 310.4							
	2.343	6	max	2.98 ¹	c/t-lim(1:4) = 70.16 80.88 118.9 296.2							
	2.929	6	max	3.01 ¹	c/t-lim(1:4) = 69.36 79.96 116.9 233.9							
	3.514	6	max	3.08 ¹	c/t-lim(1:4) = 59.47 68.53 95.70 387.7							
	4.100	6	max	3.03 ¹	c/t-lim(1:4) = 68.37 78.81 114.4 224.4							
60066	0.000	6	max	3.02 ¹	c/t-lim(1:4) = 69.29 79.87 116.7 205.8							
	0.583	6	max	3.08 ¹	c/t-lim(1:4) = 57.34 66.08 92.03 408.2							
	1.167	6	max	3.04 ¹	c/t-lim(1:4) = 66.41 76.54 109.7 311.1							
	1.750	6	max	3.03 ¹	c/t-lim(1:4) = 68.14 78.54 113.8 271.8							
	2.333	6	max	3.04 ¹	c/t-lim(1:4) = 66.08 76.17 109.0 317.9							
	2.917	6	max	3.07 ¹	c/t-lim(1:4) = 60.31 69.51 97.23 383.9							
	3.500	6	max	3.01 ¹	c/t-lim(1:4) = 69.45 80.06 117.1 200.4							
60067	0.000	6	max	3.05 ¹	c/t-lim(1:4) = 68.15 78.56 113.8 192.3							
	0.583	6	max	3.12 ¹	c/t-lim(1:4) = 55.73 64.21 89.40 327.5							
	1.167	6	max	3.09 ¹	c/t-lim(1:4) = 62.24 71.74 100.9 291.4							
	1.750	6	max	3.07 ¹	c/t-lim(1:4) = 65.42 75.41 107.5 256.1							
	2.333	6	max	3.09 ¹	c/t-lim(1:4) = 62.52 72.06 101.5 288.2							
	2.917	6	max	3.13 ¹	c/t-lim(1:4) = 53.74 61.92 86.34 334.5							
	3.500	6	max	3.06 ¹	c/t-lim(1:4) = 67.97 78.35 113.4 194.9							
60068	0.000	6	max	3.01 ¹	c/t-lim(1:4) = 69.39 79.99 116.9 200.9							
	0.583	6	max	3.07 ¹	c/t-lim(1:4) = 60.21 69.38 97.04 381.2							
	1.167	6	max	3.05 ¹	c/t-lim(1:4) = 65.77 75.80 108.3 320.7							
	1.750	6	max	3.03 ¹	c/t-lim(1:4) = 67.88 78.25 113.2 275.8							
	2.333	6	max	3.05 ¹	c/t-lim(1:4) = 65.76 75.80 108.3 320.4							
	2.917	6	max	3.07 ¹	c/t-lim(1:4) = 60.09 69.25 96.82 381.4							
	3.500	6	max	3.04 ¹	c/t-lim(1:4) = 61.68 71.09 99.81 541.3							
60069	0.000	6	max	3.01 ¹	c/t-lim(1:4) = 69.49 80.11 117.2 200.4							
	0.583	6	max	3.07 ¹	c/t-lim(1:4) = 60.39 69.60 97.38 386.0							
	1.167	6	max	3.04 ¹	c/t-lim(1:4) = 66.22 76.33 109.3 317.1							
	1.750	6	max	3.03 ¹	c/t-lim(1:4) = 68.22 78.64 114.0 270.6							
	2.333	6	max	3.04 ¹	c/t-lim(1:4) = 66.58 76.74 110.1 308.2							
	2.917	6	max	3.09 ¹	c/t-lim(1:4) = 56.10 64.64 89.99 416.8							
	3.500	6	max	3.02 ¹	c/t-lim(1:4) = 69.24 79.82 116.6 207.2							
60070	0.000	6	max	3.01 ¹	c/t-lim(1:4) = 69.47 80.08 117.1 201.2							
	0.583	6	max	3.07 ¹	c/t-lim(1:4) = 60.71 69.97 97.98 383.8							
	1.167	6	max	3.04 ¹	c/t-lim(1:4) = 65.99 76.06 108.8 324.1							

Steel - Resistance of Cross Sections

Plate Slenderness c/t

Beam	x[m]	SNo	LC	Plate	σ -a	σ -e	ψ	k- σ	c[mm]	t[mm]	c/t	c/t-lim
60070	1.750	6	max	3.03 ¹	c/t-lim(1:4) = 68.06	78.45	113.6	278.2	118.02(3) ²		278.159(4)	
	2.333	6	max	3.04 ¹	c/t-lim(1:4) = 66.00	76.07	108.8	324.5	118.02(3) ²		324.549(4)	
	2.917	6	max	3.07 ¹	c/t-lim(1:4) = 60.85	70.13	98.24	384.0	118.02(3) ²		384.009(4)	
	3.500	6	max	3.01 ¹	c/t-lim(1:4) = 69.50	80.12	117.2	201.2	118.02(3) ²		201.185(4)	
60071	0.000	6	max	3.00 ¹	c/t-lim(1:4) = 69.79	80.46	118.0	281.0	118.02(3) ²		281.008(4)	
	0.583	6	max	3.06 ¹	c/t-lim(1:4) = 63.12	72.75	102.7	372.5	118.02(3) ²		372.515(4)	
	1.167	6	max	3.04 ¹	c/t-lim(1:4) = 66.10	76.19	109.0	334.2	118.02(3) ²		334.174(4)	
	1.750	6	max	3.02 ¹	c/t-lim(1:4) = 68.27	78.70	114.1	279.7	118.02(3) ²		279.655(4)	
	2.333	6	max	3.04 ¹	c/t-lim(1:4) = 66.49	76.63	109.9	319.8	118.02(3) ²		319.833(4)	
	2.917	6	max	3.08 ¹	c/t-lim(1:4) = 58.82	67.78	94.56	406.5	118.02(3) ²		406.514(4)	
	3.500	6	max	3.01 ¹	c/t-lim(1:4) = 69.37	79.97	116.9	205.8	118.02(3) ²		205.799(4)	
60072	0.000	6	max	3.02 ¹	c/t-lim(1:4) = 69.25	79.82	116.6	207.7	118.02(3) ²		207.705(4)	
	0.583	6	max	3.08 ¹	c/t-lim(1:4) = 58.71	67.66	94.37	404.4	118.02(3) ²		404.414(4)	
	1.167	6	max	3.04 ¹	c/t-lim(1:4) = 66.03	76.11	108.9	329.2	118.02(3) ²		329.194(4)	
	1.750	6	max	3.03 ¹	c/t-lim(1:4) = 67.89	78.26	113.2	292.9	118.02(3) ²		292.893(4)	
	2.333	6	max	3.05 ¹	c/t-lim(1:4) = 64.45	74.28	105.4	370.8	118.02(3) ²		370.775(4)	
	2.917	6	max	3.04 ¹	c/t-lim(1:4) = 65.98	76.05	108.8	330.5	118.02(3) ²		330.498(4)	
	3.500	6	max	2.98 ¹	c/t-lim(1:4) = 70.09	80.80	118.7	268.2	118.02(3)		268.178(4)	
60073	0.000	6	max	3.04 ¹	c/t-lim(1:4) = 67.74	78.09	112.8	253.3	118.02(3) ²		253.304(4)	
	0.600	6	max	3.06 ¹	c/t-lim(1:4) = 63.29	72.94	103.0	365.5	118.02(3) ²		365.479(4)	
	1.200	6	max	3.01 ¹	c/t-lim(1:4) = 69.30	79.89	116.7	247.6	118.02(3) ²		247.567(4)	
	1.800	6	max	3.00 ¹	c/t-lim(1:4) = 69.75	80.40	117.9	336.6	118.02(3) ²		336.568(4)	
	2.400	6	max	3.02 ¹	c/t-lim(1:4) = 68.75	79.25	115.3	285.6	118.02(3) ²		285.626(4)	
	3.000	6	max	3.06 ¹	c/t-lim(1:4) = 61.42	70.78	99.31	433.9	118.02(3) ²		433.855(4)	
	3.600	6	max	2.97 ¹	c/t-lim(1:4) = 70.23	80.96	119.1	278.8	118.02(3)		278.849(4)	
60074	0.000	6	max	3.49 ¹	c/t-lim(1:4) = 66.76	76.96	110.5	125.8	118.02(3) ²		125.848(4)	
	0.586	6	max	3.32 ¹	c/t-lim(1:4) = 55.64	64.11	89.26	178.4	118.02(3) ²		178.436(4)	
	1.171	6	max	3.34 ¹	c/t-lim(1:4) = 52.05	59.97	83.88	183.9	118.02(3) ²		183.911(4)	
	1.757	6	max	3.33 ¹	c/t-lim(1:4) = 61.35	70.70	99.17	156.8	118.02(3) ²		156.778(4)	
	2.343	6	max	3.33 ¹	c/t-lim(1:4) = 62.06	71.53	100.5	154.1	118.02(3) ²		154.085(4)	
	2.929	6	max	3.32 ¹	c/t-lim(1:4) = 57.65	66.43	92.54	173.3	118.02(3) ²		173.317(4)	
	3.514	6	max	3.37 ¹	c/t-lim(1:4) = 39.85	45.89	69.18	201.9	118.02(3) ²		201.893(4)	
	4.100	6	max	3.31 ¹	c/t-lim(1:4) = 65.56	75.57	107.8	140.9	118.02(3) ²		140.903(4)	
60075	0.000	6	max	3.03 ¹	c/t-lim(1:4) = 68.27	78.70	114.1	268.9	118.02(3) ²		268.869(4)	
	0.583	6	max	3.09 ¹	c/t-lim(1:4) = 56.18	64.73	90.12	386.5	118.02(3) ²		386.480(4)	
	1.167	6	max	3.07 ¹	c/t-lim(1:4) = 62.76	72.33	101.9	322.7	118.02(3) ²		322.693(4)	
	1.750	6	max	3.14 ¹	c/t-lim(1:4) = 33.00	38.00	60.53	484.9	118.02(3) ²		484.936(4)	
	2.333	6	max	3.14 ¹	c/t-lim(1:4) = 33.00	38.00	57.03	493.9	118.02(3) ²		493.939(4)	
	2.917	6	max	3.10 ¹	c/t-lim(1:4) = 53.72	61.90	86.31	399.8	118.02(3) ²		399.848(4)	
	3.500	6	max	3.03 ¹	c/t-lim(1:4) = 68.06	78.45	113.6	276.9	118.02(3) ²		276.853(4)	
60076	0.000	6	max	3.16 ¹	c/t-lim(1:4) = 66.95	77.17	111.0	154.8	118.02(3) ²		154.821(4)	
	0.583	6	max	3.25 ¹	c/t-lim(1:4) = 47.99	55.28	78.44	236.1	118.02(3) ²		236.099(4)	
	1.167	6	max	3.22 ¹	c/t-lim(1:4) = 57.77	66.58	92.75	208.7	118.02(3) ²		208.705(4)	
	1.750	6	max	3.20 ¹	c/t-lim(1:4) = 61.54	70.92	99.54	189.9	118.02(3) ²		189.941(4)	
	2.333	6	max	3.22 ¹	c/t-lim(1:4) = 56.89	65.56	91.28	211.3	118.02(3) ²		211.270(4)	
	2.917	6	max	3.24 ¹	c/t-lim(1:4) = 51.65	59.50	83.31	228.6	118.02(3) ²		228.602(4)	
	3.500	6	max	3.17 ¹	c/t-lim(1:4) = 67.17	77.42	111.5	150.7	118.02(3) ²		150.681(4)	
60077	0.000	6	max	3.10 ¹	c/t-lim(1:4) = 51.72	59.59	83.42	430.0	118.02(3) ²		429.961(4)	
	0.583	6	max	3.13 ¹	c/t-lim(1:4) = 35.84	41.27	65.29	458.1	118.02(3) ²		458.131(4)	
	1.167	6	max	3.19 ¹	c/t-lim(1:4) = 33.00	38.00	44.33	439.7	118.02(3) ²		439.712(4)	
	1.750	6	max	3.15 ¹	c/t-lim(1:4) = 33.00	38.00	58.58	457.3	118.02(3) ²		457.330(4)	
	2.333	6	max	3.15 ¹	c/t-lim(1:4) = 33.00	38.00	59.73	456.4	118.02(3) ²		456.412(4)	
	2.917	6	max	3.17 ¹	c/t-lim(1:4) = 33.00	38.00	49.45	445.4	118.02(3) ²		445.414(4)	
	3.500	6	max	3.15 ¹	c/t-lim(1:4) = 33.00	38.00	59.34	451.9	118.02(3) ²		451.906(4)	
60078	0.000	6	max	3.19 ¹	c/t-lim(1:4) = 66.59	76.76	110.2	151.1	118.02(3) ²		151.110(4)	
	0.583	6	max	3.27 ¹	c/t-lim(1:4) = 47.96	55.25	78.40	225.5	118.02(3) ²		225.474(4)	
	1.167	6	max	3.24 ¹	c/t-lim(1:4) = 56.74	65.39	91.04	203.5	118.02(3) ²		203.455(4)	
	1.750	6	max	3.22 ¹	c/t-lim(1:4) = 61.05	70.36	98.61	185.0	118.02(3) ²		184.961(4)	

Steel - Resistance of Cross Sections

Plate Slenderness c/t

Beam	x[m]	SNo	LC	Plate	σ -a	σ -e	ψ	k- σ	c[mm]	t[mm]	c/t	c/t-lim
60078	2.333	6	max	3.24 ¹	c/t-lim(1:4) = 56.98	65.66	91.43	202.9	118.02(3) ²		202.856(4)	
	2.917	6	max	3.27 ¹	c/t-lim(1:4) = 46.84	53.96	77.01	227.3	118.02(3) ²		227.259(4)	
	3.500	6	max	3.19 ¹	c/t-lim(1:4) = 66.53	76.69	110.0	152.2	118.02(3) ²		152.226(4)	
60079	0.000	6	max	3.21 ¹	c/t-lim(1:4) = 65.08	75.01	106.8	161.2	118.02(3) ²		161.211(4)	
	0.600	6	max	3.43 ¹	c/t-lim(1:4) = 33.00	38.00	44.60	216.4	118.02(3) ²		216.440(4)	
	1.200	6	max	3.25 ¹	c/t-lim(1:4) = 59.88	69.01	96.44	183.5	118.02(3) ²		183.458(4)	
	1.800	6	max	3.25 ¹	c/t-lim(1:4) = 61.76	71.17	99.96	172.5	118.02(3) ²		172.544(4)	
	2.400	6	max	3.27 ¹	c/t-lim(1:4) = 56.53	65.14	90.69	193.3	118.02(3) ²		193.269(4)	
	3.000	6	max	3.29 ¹	c/t-lim(1:4) = 50.18	57.81	81.29	209.0	118.02(3) ²		208.995(4)	
	3.600	6	max	3.26 ¹	c/t-lim(1:4) = 66.62	76.79	110.2	140.8	118.02(3) ²		140.767(4)	
	60080	0.000	6	max	3.11 ¹	c/t-lim(1:4) = 42.59	49.05	72.08	491.1	118.02(3) ²		491.139(4)
60080	0.583	6	max	3.17 ¹	c/t-lim(1:4) = 33.00	38.00	45.74	482.9	118.02(3) ²		482.869(4)	
	1.167	6	max	3.13 ¹	c/t-lim(1:4) = 33.00	38.00	58.55	501.4	118.02(3) ²		501.379(4)	
	1.750	6	max	3.13 ¹	c/t-lim(1:4) = 33.00	38.00	61.61	503.1	118.02(3) ²		503.122(4)	
	2.333	6	max	3.15 ¹	c/t-lim(1:4) = 33.00	38.00	51.66	496.3	118.02(3) ²		496.260(4)	
	2.917	6	max	3.13 ¹	c/t-lim(1:4) = 33.00	38.00	60.36	502.4	118.02(3) ²		502.449(4)	
	3.500	6	max	3.09 ¹	c/t-lim(1:4) = 50.59	58.28	81.85	474.7	118.02(3) ²		474.708(4)	
	60081	0.000	6	max	2.90 ¹	c/t-lim(1:4) = 71.32	82.22	122.1	353.9	118.02(3)		353.927(4)
	60081	0.583	6	max	3.02 ¹	c/t-lim(1:4) = 67.24	77.51	111.7	391.4	118.02(3) ²		391.404(4)
1.167		6	max	3.01 ¹	c/t-lim(1:4) = 69.20	79.77	116.4	279.2	118.02(3) ²		279.192(4)	
1.750		6	max	3.00 ¹	c/t-lim(1:4) = 69.03	79.57	116.0	571.0	118.02(3) ²		571.046(4)	
2.333		6	max	3.01 ¹	c/t-lim(1:4) = 69.13	79.69	116.3	281.2	118.02(3) ²		281.185(4)	
2.917		6	max	3.02 ¹	c/t-lim(1:4) = 67.49	77.79	112.2	379.4	118.02(3) ²		379.417(4)	
3.500		6	max	2.90 ¹	c/t-lim(1:4) = 71.31	82.21	122.0	350.1	118.02(3)		350.097(4)	
60082		0.000	6	max	2.89 ¹	c/t-lim(1:4) = 71.46	82.38	122.4	295.2	118.02(3)		295.165(4)
60082		0.583	6	max	3.01 ¹	c/t-lim(1:4) = 67.13	77.38	111.4	635.1	118.02(3) ²		635.118(4)
	1.167	6	max	3.01 ¹	c/t-lim(1:4) = 68.82	79.33	115.5	477.5	118.02(3) ²		477.488(4)	
	1.750	6	max	3.00 ¹	c/t-lim(1:4) = 69.70	80.35	117.7	398.8	118.02(3) ²		398.751(4)	
	2.333	6	max	3.01 ¹	c/t-lim(1:4) = 66.85	77.05	110.7	802.4	118.02(3) ²		802.414(4)	
	2.917	6	max	3.02 ¹	c/t-lim(1:4) = 62.08	71.55	100.6	999.9	118.02(3) ²		999.999(4)	
	3.500	6	max	2.90 ¹	c/t-lim(1:4) = 71.36	82.27	122.2	295.1	118.02(3)		295.067(4)	
	60083	0.000	6	max	2.89 ¹	c/t-lim(1:4) = 71.42	82.34	122.3	420.1	118.02(3)		420.114(4)
	60083	0.583	6	max	3.01 ¹	c/t-lim(1:4) = 67.11	77.35	111.3	887.6	118.02(3) ²		887.645(4)
1.167		6	max	3.01 ¹	c/t-lim(1:4) = 68.61	79.09	115.0	685.8	118.02(3) ²		685.818(4)	
1.750		6	max	3.00 ¹	c/t-lim(1:4) = 69.58	80.20	117.4	570.5	118.02(3) ²		570.519(4)	
2.333		6	max	3.01 ¹	c/t-lim(1:4) = 68.57	79.04	114.9	676.4	118.02(3) ²		676.394(4)	
2.917		6	max	3.01 ¹	c/t-lim(1:4) = 66.17	76.26	109.2	908.7	118.02(3) ²		908.700(4)	
3.500		6	max	2.90 ¹	c/t-lim(1:4) = 71.28	82.17	121.9	423.6	118.02(3)		423.596(4)	
60084		0.000	6	max	2.90 ¹	c/t-lim(1:4) = 71.27	82.16	121.9	291.3	118.02(3)		291.257(4)
60084		0.583	6	max	3.02 ¹	c/t-lim(1:4) = 67.77	78.12	112.9	380.7	118.02(3) ²		380.735(4)
	1.167	6	max	3.01 ¹	c/t-lim(1:4) = 68.31	78.74	114.2	471.6	118.02(3) ²		471.580(4)	
	1.750	6	max	3.00 ¹	c/t-lim(1:4) = 69.42	80.02	117.0	393.1	118.02(3) ²		393.078(4)	
	2.333	6	max	3.01 ¹	c/t-lim(1:4) = 68.46	78.91	114.6	462.0	118.02(3) ²		462.008(4)	
	2.917	6	max	3.02 ¹	c/t-lim(1:4) = 67.31	77.59	111.8	404.4	118.02(3) ²		404.428(4)	
	3.500	6	max	2.91 ¹	c/t-lim(1:4) = 71.21	82.09	121.8	298.1	118.02(3)		298.105(4)	
	60085	0.000	6	max	2.91 ¹	c/t-lim(1:4) = 71.14	82.01	121.6	297.6	118.02(3)		297.649(4)
	60085	0.583	6	max	3.02 ¹	c/t-lim(1:4) = 65.19	75.13	107.0	617.6	118.02(3) ²		617.630(4)
1.167		6	max	3.02 ¹	c/t-lim(1:4) = 67.61	77.93	112.5	475.0	118.02(3) ²		474.985(4)	
1.750		6	max	3.01 ¹	c/t-lim(1:4) = 68.69	79.18	115.2	406.2	118.02(3) ²		406.220(4)	
2.333		6	max	3.02 ¹	c/t-lim(1:4) = 66.57	76.74	110.1	495.9	118.02(3) ²		495.916(4)	
2.917		6	max	3.02 ¹	c/t-lim(1:4) = 67.04	77.28	111.2	508.7	118.02(3) ²		508.693(4)	
3.500		6	max	2.92 ¹	c/t-lim(1:4) = 71.01	81.86	121.2	275.6	118.02(3)		275.595(4)	
60086		0.000	6	max	2.99 ¹	c/t-lim(1:4) = 70.03	80.73	118.6	253.5	118.02(3)		253.516(4)
60086		0.586	6	max	3.04 ¹	c/t-lim(1:4) = 64.21	74.01	104.9	422.5	118.02(3) ²		422.477(4)
	1.171	6	max	3.05 ¹	c/t-lim(1:4) = 63.09	72.71	102.6	427.2	118.02(3) ²		427.159(4)	
	1.757	6	max	3.03 ¹	c/t-lim(1:4) = 67.35	77.63	111.9	330.0	118.02(3) ²		330.017(4)	
	2.343	6	max	3.03 ¹	c/t-lim(1:4) = 67.64	77.96	112.6	322.7	118.02(3) ²		322.680(4)	
	2.929	6	max	3.04 ¹	c/t-lim(1:4) = 65.51	75.51	107.7	385.8	118.02(3) ²		385.819(4)	

Steel - Resistance of Cross Sections

Plate Slenderness c/t

Beam	x[m]	SNo	LC	Plate	σ_a	σ_e	ψ	k- σ	c[mm]	t[mm]	c/t	c/t-lim
60086	3.514	6	max	3.11 ¹	c/t-lim(1:4) = 33.00 38.00 58.25 614.3						118.02(3) ²	614.350(4)
	4.100	6	max	3.02 ¹	c/t-lim(1:4) = 68.78 79.29 115.4 287.5						118.02(3) ²	287.508(4)
60087	0.000	6	max	2.90 ¹	c/t-lim(1:4) = 71.32 82.22 122.1 371.6						118.02(3)	371.610(4)
	0.583	6	max	3.02 ¹	c/t-lim(1:4) = 68.00 78.39 113.5 349.5						118.02(3) ²	349.481(4)
	1.167	6	max	3.02 ¹	c/t-lim(1:4) = 68.76 79.26 115.3 290.8						118.02(3) ²	290.801(4)
	1.750	6	max	3.00 ¹	c/t-lim(1:4) = 69.50 80.12 117.2 479.7						118.02(3) ²	479.695(4)
	2.333	6	max	3.01 ¹	c/t-lim(1:4) = 69.06 79.60 116.1 283.6						118.02(3) ²	283.588(4)
	2.917	6	max	3.02 ¹	c/t-lim(1:4) = 67.40 77.69 112.0 386.1						118.02(3) ²	386.144(4)
	3.500	6	max	2.89 ¹	c/t-lim(1:4) = 71.39 82.30 122.3 384.8						118.02(3)	384.763(4)
60088	0.000	6	max	3.03 ¹	c/t-lim(1:4) = 67.54 77.86 112.4 322.5						118.02(3) ²	322.503(4)
	0.600	6	max	3.15 ¹	c/t-lim(1:4) = 33.00 38.00 42.14 549.6						118.02(3) ²	549.630(4)
	1.200	6	max	3.04 ¹	c/t-lim(1:4) = 65.27 75.23 107.2 384.0						118.02(3) ²	383.971(4)
	1.800	6	max	3.03 ¹	c/t-lim(1:4) = 66.44 76.58 109.8 352.7						118.02(3) ²	352.687(4)
	2.400	6	max	3.05 ¹	c/t-lim(1:4) = 63.58 73.28 103.6 413.3						118.02(3) ²	413.325(4)
	3.000	6	max	3.06 ¹	c/t-lim(1:4) = 58.35 67.24 93.74 491.7						118.02(3) ²	491.727(4)
	3.600	6	max	3.01 ¹	c/t-lim(1:4) = 68.60 79.08 114.9 424.9						118.02(3) ²	424.899(4)
70001	0.000	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 52.70 333.5						20.03(1)	333.540(4)
	0.600	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 51.05 327.8						20.03(1)	327.843(4)
	1.200	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 52.27 388.7						20.03(1)	388.712(4)
	1.800	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 60.77 458.9						20.03(1)	458.902(4)
	2.400	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 49.11 744.9						20.03(1)	744.915(4)
	3.000	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 62.72 951.2						20.03(1)	951.208(4)
	3.600	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 43.04 244.0						20.03(1)	243.966(4)
70002	0.000	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 57.58 463.3						20.03(1)	463.323(4)
	0.583	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 52.99 587.9						20.03(1)	587.856(4)
	1.167	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 50.66 455.0						20.03(1)	454.993(4)
	1.750	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 46.43 434.3						20.03(1)	434.340(4)
	2.333	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 42.51 598.1						20.03(1)	598.089(4)
	2.917	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 48.09 549.5						20.03(1)	549.477(4)
	3.500	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 45.68 289.8						20.03(1)	289.800(4)
70003	0.000	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 43.52 351.0						20.03(1)	351.020(4)
	0.583	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 49.55 979.8						20.03(1)	979.814(4)
	1.167	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 43.20 464.2						20.03(1)	464.222(4)
	1.750	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 42.39 419.3						20.03(1)	419.291(4)
	2.333	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 42.36 523.8						20.03(1)	523.803(4)
	2.917	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 43.49 563.5						20.03(1)	563.485(4)
	3.500	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 42.73 297.6						20.03(1)	297.643(4)
70004	0.000	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 42.26 491.8						20.03(1)	491.828(4)
	0.583	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 47.87 722.8						20.03(1)	722.765(4)
	1.167	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 50.53 999.9						20.03(1)	999.999(4)
	1.750	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 42.89 756.7						20.03(1)	756.659(4)
	2.333	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 52.89 999.9						20.03(1)	999.999(4)
	2.917	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 42.70 475.7						20.03(1)	475.656(4)
	3.500	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 42.51 538.9						20.03(1)	538.944(4)
70005	0.000	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 42.08 294.5						20.03(1)	294.544(4)
	0.583	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 42.12 536.5						20.03(1)	536.481(4)
	1.167	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 42.01 532.0						20.03(1)	531.962(4)
	1.750	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 42.09 428.0						20.03(1)	427.967(4)
	2.333	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 42.21 481.0						20.03(1)	480.981(4)
	2.917	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 42.72 732.0						20.03(1)	732.000(4)
	3.500	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 42.20 331.1						20.03(1)	331.126(4)
70006	0.000	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 42.35 302.8						20.03(1)	302.818(4)
	0.583	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 42.71 595.4						20.03(1)	595.408(4)
	1.167	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 42.05 527.2						20.03(1)	527.209(4)
	1.750	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 42.30 424.1						20.03(1)	424.080(4)
	2.333	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 42.77 473.7						20.03(1)	473.729(4)
	2.917	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 46.78 997.7						20.03(1)	997.661(4)
	3.500	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 42.86 349.5						20.03(1)	349.519(4)

Steel - Resistance of Cross Sections

Plate Slenderness c/t

Beam	x[m]	SNo	LC	Plate	σ -a	σ -e	ψ	k- σ	c[mm]	t[mm]	c/t	c/t-lim
70007	0.000	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 44.65 283.1				20.03(1)	283.071(4)		
	0.583	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 45.93 528.1				20.03(1)	528.051(4)		
	1.167	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 43.64 631.0				20.03(1)	630.962(4)		
	1.750	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 46.11 434.1				20.03(1)	434.061(4)		
	2.333	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 49.30 443.0				20.03(1)	442.991(4)		
	2.917	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 62.63 696.7				20.03(1)	696.697(4)		
	3.500	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 58.04 516.6				20.03(1)	516.553(4)		
70008	0.000	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 42.31 234.8				20.03(1)	234.795(4)		
	0.586	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 48.84 633.5				20.03(1)	633.516(4)		
	1.171	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 44.48 338.2				20.03(1)	338.231(4)		
	1.757	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 55.02 818.3				20.03(1)	818.306(4)		
	2.343	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 55.63 534.7				20.03(1)	534.657(4)		
	2.929	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 51.79 392.7				20.03(1)	392.725(4)		
	3.514	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 53.22 389.0				20.03(1)	389.022(4)		
70009	4.100	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 60.98 499.9				20.03(1)	499.935(4)		
	0.000	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 54.55 373.6				20.03(1)	373.591(4)		
	0.600	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 52.64 322.2				20.03(1)	322.226(4)		
	1.200	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 48.13 295.1				20.03(1)	295.081(4)		
	1.800	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 44.97 312.0				20.03(1)	311.992(4)		
	2.400	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 44.54 421.5				20.03(1)	421.547(4)		
	3.000	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 54.15 498.3				20.03(1)	498.306(4)		
70010	3.600	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 48.50 260.0				20.03(1)	260.034(4)		
	0.000	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 43.90 263.7				20.03(1)	263.653(4)		
	0.583	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 45.68 397.5				20.03(1)	397.494(4)		
	1.167	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 54.32 850.0				20.03(1)	850.008(4)		
	1.750	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 60.72 526.2				20.03(1)	526.202(4)		
	2.333	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 61.53 999.9				20.03(1)	999.999(4)		
	2.917	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 44.44 465.9				20.03(1)	465.937(4)		
70011	3.500	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 42.70 290.8				20.03(1)	290.750(4)		
	0.000	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 42.75 315.2				20.03(1)	315.176(4)		
	0.583	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 44.59 624.4				20.03(1)	624.437(4)		
	1.167	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 43.24 447.7				20.03(1)	447.708(4)		
	1.750	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 42.88 395.8				20.03(1)	395.794(4)		
	2.333	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 43.05 460.5				20.03(1)	460.475(4)		
	2.917	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 43.34 562.3				20.03(1)	562.337(4)		
70012	3.500	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 42.34 301.9				20.03(1)	301.925(4)		
	0.000	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 42.24 324.8				20.03(1)	324.845(4)		
	0.583	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 42.83 749.3				20.03(1)	749.338(4)		
	1.167	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 42.23 566.2				20.03(1)	566.239(4)		
	1.750	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 42.01 461.0				20.03(1)	461.034(4)		
	2.333	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 42.25 558.1				20.03(1)	558.112(4)		
	2.917	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 42.98 791.8				20.03(1)	791.816(4)		
70013	3.500	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 42.26 329.7				20.03(1)	329.728(4)		
	0.000	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 42.04 335.0				20.03(1)	335.002(4)		
	0.583	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 42.06 869.8				20.03(1)	869.840(4)		
	1.167	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 42.06 590.3				20.03(1)	590.292(4)		
	1.750	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 42.10 480.5				20.03(1)	480.466(4)		
	2.333	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 42.25 605.2				20.03(1)	605.186(4)		
	2.917	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 42.59 795.8				20.03(1)	795.780(4)		
70014	3.500	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 42.13 327.9				20.03(1)	327.887(4)		
	0.000	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 42.59 301.9				20.03(1)	301.947(4)		
	0.583	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 43.81 573.2				20.03(1)	573.237(4)		
	1.167	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 43.03 464.8				20.03(1)	464.794(4)		
	1.750	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 42.61 393.8				20.03(1)	393.783(4)		
	2.333	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 42.60 438.3				20.03(1)	438.271(4)		
	2.917	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 43.14 714.0				20.03(1)	714.009(4)		
70015	3.500	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 42.15 327.0				20.03(1)	327.014(4)		
	0.000	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 42.44 308.5				20.03(1)	308.475(4)		

Steel - Resistance of Cross Sections

Plate Slenderness c/t

Beam	x[m]	SNo	LC	Plate	σ -a	σ -e	ψ	k- σ	c[mm]	t[mm]	c/t	c/t-lim
70015	0.583	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 42.98 492.6					20.03(1)	492.596(4)	
	1.167	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 55.02 999.9					20.03(1)	999.999(4)	
	1.750	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 55.92 525.6					20.03(1)	525.582(4)	
	2.333	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 50.17 565.8					20.03(1)	565.780(4)	
	2.917	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 46.04 336.4					20.03(1)	336.423(4)	
	3.500	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 44.56 238.2					20.03(1)	238.216(4)	
70016	0.000	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 47.67 243.2					20.03(1)	243.174(4)	
	0.586	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 52.48 439.7					20.03(1)	439.705(4)	
	1.171	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 46.07 410.4					20.03(1)	410.435(4)	
	1.757	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 43.19 287.7					20.03(1)	287.734(4)	
	2.343	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 45.53 261.2					20.03(1)	261.237(4)	
	2.929	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 47.98 265.1					20.03(1)	265.142(4)	
	3.514	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 52.23 303.3					20.03(1)	303.293(4)	
	4.100	7	max	0.61 ¹	c/t-lim(1:4) = 33.00 38.00 53.23 363.6					20.03(1)	363.631(4)	
¹ classification index (e.g. 1.5 => c/t is in the mid between SCL 1 and 2)												
² Section of class 4 has small stresses allowing to be treated as class 3 (see EN 1993-1-1 5.5.2 (9))												
σ -a, σ -e	stress at end points			t[mm]	thickness of sectional element							
ψ	stress distributiononn ratio			c/t	existing c/t or D/t-ratio (section class)							
k- σ	buckling factor			c/t-lim	limit of c/t-ratio (base value * stress factor)							
c[mm]	length or diameter of tube											

Utilisation Level

Beam	x[m]	SNo	LC	σ -n, c	σ -n, t	σ -x	σ +x	τ	c/t	c/t-lim	σ -v
10001	0.000	1	max	0.006	0.011	0.149	0.171	0.093	21.53(1)	189.62(3)	0.171
	0.755	1	max	0.006	0.011	0.186	0.184	0.087	21.53(1)	180.35(3)	0.190
	1.511	1	max	0.006	0.010	0.389	0.387	0.081	21.53(1)	141.93(3)	0.389
10002	0.000	1	max	0.008	0.009	0.525	0.514	0.079	21.53(1)	116.03(3)	0.526
	0.950	1	max	0.008	0.009	0.008	0.009	0.086	21.53(1)	462.49(3)	0.086
10003	0.000	1	max	0.046	0.050	0.112	0.164	0.045	21.53(1)	308.57(3)	0.164
	0.755	1	max	0.046	0.049	0.170	0.152	0.034	21.53(1)	106.21(3)	0.170
	1.511	1	max	0.046	0.049	0.295	0.283	0.045	21.53(1)	85.04(3)	0.295
10004	0.000	1	max	0.049	0.051	0.416	0.397	0.057	21.53(1)	69.91(3)	0.417
	0.950	1	max	0.050	0.051	0.050	0.051	0.071	21.53(1)	231.96(3)	0.072
10005	0.000	1	max	0.051	0.043	0.108	0.118	0.045	21.53(1)	243.99(3)	0.119
	0.755	1	max	0.051	0.042	0.186	0.154	0.034	21.53(1)	100.03(3)	0.186
	1.511	1	max	0.052	0.042	0.299	0.289	0.039	21.53(1)	79.33(3)	0.299
10006	0.000	1	max	0.055	0.044	0.435	0.404	0.058	21.53(1)	65.31(3)	0.436
	0.950	1	max	0.055	0.044	0.055	0.044	0.072	21.53(1)	223.19(3)	0.076
10007	0.000	1	max	0.051	0.040	0.110	0.106	0.044	21.53(1)	265.55(3)	0.110
	0.755	1	max	0.051	0.040	0.188	0.153	0.033	21.53(1)	99.98(3)	0.188
	1.511	1	max	0.052	0.040	0.296	0.287	0.027	21.53(1)	79.18(3)	0.297
10008	0.000	1	max	0.055	0.042	0.437	0.400	0.059	21.53(1)	65.18(3)	0.438
	0.950	1	max	0.056	0.042	0.056	0.042	0.072	21.53(1)	223.39(3)	0.076
10009	0.000	1	max	0.051	0.040	0.111	0.108	0.044	21.53(1)	248.14(3)	0.112
	0.755	1	max	0.051	0.040	0.184	0.154	0.033	21.53(1)	100.34(3)	0.184
	1.511	1	max	0.052	0.040	0.299	0.290	0.025	21.53(1)	79.87(3)	0.299
10010	0.000	1	max	0.055	0.042	0.429	0.404	0.058	21.53(1)	65.73(3)	0.430
	0.950	1	max	0.056	0.042	0.056	0.042	0.072	21.53(1)	223.87(3)	0.075
10011	0.000	1	max	0.051	0.039	0.110	0.107	0.044	21.53(1)	253.36(3)	0.110
	0.755	1	max	0.051	0.039	0.182	0.155	0.033	21.53(1)	100.70(3)	0.182
	1.511	1	max	0.051	0.039	0.301	0.292	0.024	21.53(1)	80.24(3)	0.302
10012	0.000	1	max	0.055	0.041	0.424	0.408	0.059	21.53(1)	66.02(3)	0.425
	0.950	1	max	0.055	0.040	0.055	0.040	0.073	21.53(1)	224.94(3)	0.074
10013	0.000	1	max	0.051	0.041	0.112	0.116	0.044	21.53(1)	252.32(3)	0.117
	0.755	1	max	0.052	0.041	0.185	0.155	0.033	21.53(1)	100.03(3)	0.185
	1.511	1	max	0.052	0.041	0.302	0.293	0.035	21.53(1)	79.62(3)	0.302
10014	0.000	1	max	0.056	0.042	0.431	0.409	0.059	21.53(1)	65.51(3)	0.432
	0.950	1	max	0.056	0.042	0.056	0.042	0.073	21.53(1)	222.92(3)	0.075
10015	0.000	1	max	0.051	0.040	0.133	0.127	0.044	21.53(1)	195.97(3)	0.133
	0.755	1	max	0.051	0.040	0.186	0.153	0.033	21.53(1)	103.57(3)	0.187

Steel - Resistance of Cross Sections

Utilisation Level

Beam	x[m]	SNo	LC	$\sigma-n,c$	$\sigma-n,t$	$\sigma-x$	$\sigma+x$	τ	c/t	c/t-lim	$\sigma-v$
10015	1.511	1	max	0.051	0.040	0.294	0.282	0.022	21.53(1)	82.73(3)	0.294
10016	0.000	1	max	0.055	0.041	0.415	0.395	0.057	21.53(1)	67.96(3)	0.415
	0.950	1	max	0.055	0.041	0.055	0.041	0.071	21.53(1)	221.73(3)	0.072
10017	0.000	1	max	0.008	0.003	0.142	0.126	0.092	21.53(1)	161.94(3)	0.143
	0.755	1	max	0.008	0.003	0.190	0.189	0.086	21.53(1)	180.02(3)	0.195
	1.511	1	max	0.008	0.003	0.389	0.388	0.080	21.53(1)	143.98(3)	0.390
10018	0.000	1	max	0.009	0.001	0.523	0.514	0.079	21.53(1)	117.21(3)	0.524
	0.950	1	max	0.010	0.001	0.010	0.001	0.086	21.53(1)	431.83(3)	0.086
20001	0.000	2	max	0.012	0.023	0.648	0.693	0.072	27.55(1)	450.43(3)	0.693
	0.564	2	max	0.013	0.022	0.180	0.183	0.055	27.55(1)	441.36(3)	0.183
	1.129	2	max	0.013	0.022	0.241	0.243	0.038	27.55(1)	596.59(3)	0.243
	1.693	2	max	0.013	0.022	0.366	0.404	0.025	27.55(1)	394.79(3)	0.404
	2.257	2	max	0.013	0.022	0.355	0.399	0.036	27.55(1)	402.70(3)	0.399
	2.821	2	max	0.013	0.022	0.186	0.215	0.048	27.55(1)	422.03(3)	0.215
	3.386	2	max	0.014	0.022	0.325	0.326	0.062	27.55(1)	532.51(3)	0.326
20002	3.950	2	max	0.014	0.021	0.864	0.864	0.067	27.55(1)	508.28(3)	0.864
	0.000	2	max	0.053	0.054	0.264	0.367	0.105	27.55(1)	348.37(3)	0.367
	0.564	2	max	0.053	0.053	0.213	0.195	0.081	27.55(1)	301.60(3)	0.213
	1.129	2	max	0.053	0.053	0.161	0.196	0.056	27.55(1)	247.19(3)	0.196
	1.693	2	max	0.053	0.053	0.110	0.160	0.032	27.55(1)	253.94(3)	0.160
	2.257	2	max	0.054	0.053	0.081	0.154	0.052	27.55(1)	252.82(3)	0.154
	2.821	2	max	0.054	0.053	0.100	0.139	0.073	27.55(1)	242.92(3)	0.139
20003	3.386	2	max	0.054	0.053	0.189	0.244	0.095	27.55(1)	248.46(3)	0.244
	3.950	2	max	0.054	0.052	0.386	0.441	0.116	27.55(1)	315.60(3)	0.441
	0.000	2	max	0.069	0.059	0.315	0.364	0.104	27.55(1)	765.98(3)	0.364
	0.564	2	max	0.069	0.059	0.256	0.227	0.079	27.55(1)	263.44(3)	0.256
	1.129	2	max	0.069	0.059	0.197	0.223	0.055	27.55(1)	213.36(3)	0.223
	1.693	2	max	0.069	0.058	0.138	0.180	0.034	27.55(1)	219.94(3)	0.180
	2.257	2	max	0.070	0.058	0.096	0.159	0.056	27.55(1)	219.81(3)	0.159
20004	2.821	2	max	0.070	0.058	0.120	0.143	0.077	27.55(1)	212.22(3)	0.143
	3.386	2	max	0.070	0.058	0.193	0.266	0.099	27.55(1)	219.79(3)	0.266
	3.950	2	max	0.070	0.058	0.398	0.470	0.121	27.55(1)	282.27(3)	0.470
	0.000	2	max	0.069	0.056	0.318	0.314	0.074	27.55(1)	785.00(3)	0.318
	0.564	2	max	0.069	0.055	0.258	0.228	0.059	27.55(1)	263.86(3)	0.258
	1.129	2	max	0.069	0.055	0.198	0.225	0.043	27.55(1)	213.86(3)	0.225
	1.693	2	max	0.070	0.055	0.139	0.181	0.034	27.55(1)	219.98(3)	0.181
20005	2.257	2	max	0.070	0.055	0.079	0.118	0.056	27.55(1)	219.91(3)	0.118
	2.821	2	max	0.070	0.055	0.120	0.125	0.078	27.55(1)	212.42(3)	0.125
	3.386	2	max	0.070	0.055	0.193	0.266	0.099	27.55(1)	219.89(3)	0.266
	3.950	2	max	0.070	0.054	0.398	0.471	0.121	27.55(1)	282.55(3)	0.471
	0.000	2	max	0.068	0.055	0.318	0.315	0.075	27.55(1)	868.40(3)	0.318
	0.564	2	max	0.069	0.055	0.258	0.229	0.059	27.55(1)	265.98(3)	0.258
	1.129	2	max	0.069	0.055	0.198	0.224	0.044	27.55(1)	214.78(3)	0.224
20006	1.693	2	max	0.069	0.055	0.138	0.180	0.035	27.55(1)	221.65(3)	0.180
	2.257	2	max	0.069	0.055	0.078	0.119	0.056	27.55(1)	221.49(3)	0.119
	2.821	2	max	0.070	0.054	0.121	0.127	0.078	27.55(1)	213.86(3)	0.127
	3.386	2	max	0.070	0.054	0.196	0.269	0.099	27.55(1)	221.37(3)	0.269
	3.950	2	max	0.070	0.054	0.401	0.474	0.121	27.55(1)	282.74(3)	0.474
	0.000	2	max	0.056	0.041	0.305	0.304	0.075	27.55(1)	877.30(3)	0.305
	0.564	2	max	0.056	0.041	0.245	0.219	0.060	27.55(1)	291.48(3)	0.245
20007	1.129	2	max	0.057	0.041	0.185	0.215	0.044	27.55(1)	235.72(3)	0.215
	1.693	2	max	0.057	0.041	0.125	0.171	0.034	27.55(1)	244.05(3)	0.171
	2.257	2	max	0.057	0.040	0.074	0.107	0.056	27.55(1)	243.56(3)	0.107
	2.821	2	max	0.057	0.040	0.110	0.114	0.078	27.55(1)	234.89(3)	0.114
	3.386	2	max	0.058	0.040	0.203	0.262	0.099	27.55(1)	242.48(3)	0.262
	3.950	2	max	0.058	0.040	0.408	0.466	0.121	27.55(1)	302.25(3)	0.466
	0.000	2	max	0.057	0.050	0.308	0.345	0.103	27.55(1)	806.88(3)	0.345
	0.564	2	max	0.058	0.050	0.247	0.221	0.078	27.55(1)	287.12(3)	0.247

Steel - Resistance of Cross Sections

Utilisation Level

Beam	x[m]	SNo	LC	$\sigma_{-n,c}$	$\sigma_{-n,t}$	σ_{-x}	σ_{+x}	τ	c/t	c/t-lim	$\sigma-v$
20007	1.129	2	max	0.058	0.049	0.187	0.217	0.054	27.55(1)	233.34(3)	0.217
	1.693	2	max	0.058	0.049	0.129	0.172	0.035	27.55(1)	240.55(3)	0.172
	2.257	2	max	0.058	0.049	0.092	0.152	0.056	27.55(1)	240.21(3)	0.152
	2.821	2	max	0.058	0.049	0.111	0.135	0.078	27.55(1)	231.78(3)	0.135
	3.386	2	max	0.059	0.049	0.203	0.262	0.099	27.55(1)	239.33(3)	0.262
	3.950	2	max	0.059	0.048	0.409	0.467	0.121	27.55(1)	325.57(3)	0.467
20008	0.000	2	max	0.060	0.052	0.291	0.302	0.074	27.55(1)	927.62(3)	0.302
	0.564	2	max	0.060	0.051	0.235	0.203	0.058	27.55(1)	284.05(3)	0.235
	1.129	2	max	0.060	0.051	0.180	0.206	0.043	27.55(1)	227.82(3)	0.206
	1.693	2	max	0.061	0.051	0.124	0.168	0.031	27.55(1)	237.81(3)	0.168
	2.257	2	max	0.061	0.051	0.069	0.118	0.053	27.55(1)	237.14(3)	0.118
	2.821	2	max	0.061	0.051	0.109	0.118	0.074	27.55(1)	228.61(3)	0.118
20009	3.386	2	max	0.061	0.051	0.187	0.251	0.096	27.55(1)	236.17(3)	0.251
	3.950	2	max	0.062	0.050	0.386	0.449	0.117	27.55(1)	348.81(3)	0.449
20010	0.000	2	max	0.014	0.005	0.561	0.566	0.055	27.55(1)	424.32(3)	0.566
	0.564	2	max	0.015	0.005	0.178	0.183	0.039	27.55(1)	419.46(3)	0.183
	1.129	2	max	0.015	0.005	0.241	0.246	0.031	27.55(1)	654.78(3)	0.246
	1.693	2	max	0.015	0.005	0.346	0.341	0.025	27.55(1)	367.96(3)	0.346
	2.257	2	max	0.015	0.005	0.293	0.281	0.036	27.55(1)	375.64(3)	0.293
	2.821	2	max	0.015	0.004	0.185	0.188	0.048	27.55(1)	398.81(3)	0.188
20011	3.386	2	max	0.016	0.004	0.324	0.327	0.062	27.55(1)	705.13(3)	0.327
	3.950	2	max	0.016	0.004	0.863	0.866	0.067	27.55(1)	568.68(3)	0.866
20012	0.000	2	max	0.025	0.028	0.025	0.028	0.066	27.55(1)	357.62(3)	0.070
	0.564	2	max	0.026	0.028	0.080	0.114	0.040	27.55(1)	286.14(3)	0.114
	1.129	2	max	0.026	0.028	0.120	0.151	0.020	27.55(1)	289.07(3)	0.151
	1.693	2	max	0.026	0.028	0.127	0.154	0.028	27.55(1)	289.64(3)	0.154
	2.257	2	max	0.026	0.028	0.096	0.123	0.054	27.55(1)	361.20(3)	0.123
	2.821	2	max	0.026	0.027	0.081	0.122	0.080	27.55(1)	428.34(3)	0.122
20013	3.386	2	max	0.027	0.027	0.232	0.287	0.106	27.55(1)	423.21(3)	0.287
	3.950	2	max	0.027	0.027	0.446	0.500	0.142	27.55(1)	417.72(3)	0.500
20014	0.000	2	max	0.029	0.033	0.029	0.033	0.066	27.55(1)	346.02(3)	0.073
	0.564	2	max	0.029	0.033	0.074	0.119	0.041	27.55(1)	267.50(3)	0.120
	1.129	2	max	0.030	0.033	0.120	0.157	0.027	27.55(1)	270.44(3)	0.158
	1.693	2	max	0.030	0.032	0.131	0.166	0.032	27.55(1)	270.96(3)	0.166
	2.257	2	max	0.030	0.032	0.102	0.137	0.056	27.55(1)	353.53(3)	0.137
	2.821	2	max	0.030	0.032	0.094	0.127	0.082	27.55(1)	506.07(3)	0.127
20015	3.386	2	max	0.030	0.032	0.230	0.293	0.108	27.55(1)	400.40(3)	0.293
	3.950	2	max	0.031	0.032	0.446	0.509	0.131	27.55(1)	395.17(3)	0.509
20016	0.000	2	max	0.031	0.024	0.031	0.024	0.062	27.55(1)	334.44(3)	0.065
	0.564	2	max	0.031	0.024	0.069	0.107	0.041	27.55(1)	259.71(3)	0.107
	1.129	2	max	0.031	0.024	0.118	0.156	0.027	27.55(1)	262.63(3)	0.156
	1.693	2	max	0.032	0.023	0.129	0.166	0.025	27.55(1)	263.41(3)	0.166
	2.257	2	max	0.032	0.023	0.100	0.138	0.038	27.55(1)	342.41(3)	0.138
	2.821	2	max	0.032	0.023	0.095	0.071	0.059	27.55(1)	463.22(3)	0.095
20017	3.386	2	max	0.032	0.023	0.168	0.168	0.080	27.55(1)	394.33(3)	0.168
	3.950	2	max	0.032	0.023	0.332	0.332	0.100	27.55(1)	452.67(3)	0.332
20018	0.000	2	max	0.027	0.020	0.027	0.020	0.057	27.55(1)	344.89(3)	0.059
	0.564	2	max	0.027	0.020	0.079	0.101	0.036	27.55(1)	276.33(3)	0.101
	1.129	2	max	0.028	0.020	0.120	0.147	0.018	27.55(1)	279.21(3)	0.147
	1.693	2	max	0.028	0.019	0.125	0.154	0.019	27.55(1)	280.07(3)	0.154
	2.257	2	max	0.028	0.019	0.094	0.123	0.039	27.55(1)	352.43(3)	0.123
	2.821	2	max	0.028	0.019	0.082	0.053	0.060	27.55(1)	487.73(3)	0.082
20019	3.386	2	max	0.028	0.019	0.179	0.176	0.080	27.55(1)	482.46(3)	0.179
	3.950	2	max	0.029	0.019	0.345	0.342	0.112	27.55(1)	476.76(3)	0.345
30001	0.000	3	max	0.046	0.020	0.395	0.304	0.037	20.03(1)	132.58(3)	0.395
	0.775	3	max	0.046	0.020	0.171	0.080	0.036	20.03(1)	215.58(3)	0.172
	1.550	3	max	0.046	0.020	0.140	0.054	0.035	20.03(1)	231.63(3)	0.140
30002	0.000	3	max	0.048	0.030	0.142	0.057	0.015	20.03(1)	259.12(3)	0.143

Steel - Resistance of Cross Sections

Utilisation Level

Beam	x[m]	SNo	LC	$\sigma-n,c$	$\sigma-n,t$	$\sigma-x$	$\sigma+x$	τ	c/t	c/t-lim	$\sigma-v$
30002	0.700	3	max	0.048	0.030	0.160	0.086	0.016	20.03(1)	214.51(3)	0.160
	1.400	3	max	0.048	0.030	0.171	0.126	0.017	20.03(1)	185.63(3)	0.172
30003	0.000	3	max	0.041	0.029	0.166	0.126	0.029	20.03(1)	191.34(3)	0.166
	0.700	3	max	0.041	0.029	0.255	0.205	0.030	20.03(1)	167.76(3)	0.255
	1.400	3	max	0.041	0.029	0.408	0.359	0.031	20.03(1)	147.93(3)	0.408
30004	0.000	3	max	0.026	0.010	0.387	0.381	0.262	20.03(1)	142.04(3)	0.388
	0.400	3	max	0.026	0.010	0.532	0.526	0.261	20.03(1)	101.27(3)	0.533
30005	0.000	3	max	0.026	0.010	0.531	0.525	0.069	20.03(1)	101.23(3)	0.531
	1.000	3	max	0.026	0.010	0.280	0.274	0.071	20.03(1)	170.80(3)	0.281
30006	0.000	3	max	0.020	0.010	0.282	0.271	0.024	20.03(1)	175.73(3)	0.282
	0.700	3	max	0.020	0.010	0.185	0.174	0.023	20.03(1)	170.40(3)	0.186
	1.400	3	max	0.020	0.010	0.187	0.176	0.022	20.03(1)	168.51(3)	0.187
30007	0.000	3	max	0.010	0.004	0.181	0.182	0.022	20.03(1)	169.54(3)	0.182
	0.700	3	max	0.010	0.004	0.192	0.192	0.023	20.03(1)	166.57(3)	0.192
	1.400	3	max	0.010	0.004	0.300	0.300	0.024	20.03(1)	166.13(3)	0.301
30008	0.000	3	max	0.007	0.008	0.293	0.308	0.079	20.03(1)	164.17(3)	0.309
	0.900	3	max	0.007	0.008	0.545	0.559	0.078	20.03(1)	98.59(3)	0.560
30009	0.000	3	max	0.007	0.007	0.545	0.560	0.221	20.03(1)	98.59(3)	0.560
	0.500	3	max	0.007	0.007	0.395	0.410	0.221	20.03(1)	134.08(3)	0.410
30010	0.000	3	max	0.016	0.022	0.418	0.387	0.032	20.03(1)	144.06(3)	0.418
	0.700	3	max	0.016	0.022	0.260	0.229	0.031	20.03(1)	164.23(3)	0.260
	1.400	3	max	0.016	0.022	0.174	0.144	0.030	20.03(1)	196.33(3)	0.175
30011	0.000	3	max	0.009	0.016	0.163	0.154	0.019	20.03(1)	192.78(3)	0.163
	0.700	3	max	0.009	0.016	0.091	0.090	0.020	20.03(1)	249.16(3)	0.092
	1.400	3	max	0.009	0.016	0.092	0.083	0.021	20.03(1)	743.03(3)	0.092
30012	0.000	3	max	0.010	0.032	0.056	0.119	0.030	20.03(1)	327.65(3)	0.119
	0.700	3	max	0.010	0.032	0.058	0.095	0.029	20.03(1)	444.84(3)	0.095
	1.400	3	max	0.010	0.032	0.176	0.240	0.028	20.03(1)	243.21(3)	0.240
30013	0.000	3	max	0.026	0.036	0.136	0.188	0.531	20.03(1)	315.82(3)	0.547
	0.150	3	max	0.026	0.036	0.096	0.148	0.531	20.03(1)	211.40(3)	0.536
30014	0.000	3	max	0.026	0.037	0.086	0.139	0.134	20.03(1)	214.70(3)	0.149
	1.404	3	max	0.026	0.037	0.040	0.069	0.136	20.03(1)	319.45(3)	0.147
30015	0.000	3	max	0.025	0.036	0.083	0.127	0.077	20.03(1)	307.50(3)	0.131
	1.404	3	max	0.025	0.036	0.119	0.124	0.075	20.03(1)	185.98(3)	0.130
30016	0.000	3	max	0.029	0.034	0.080	0.062	0.044	20.03(1)	235.35(3)	0.087
	1.404	3	max	0.029	0.034	0.122	0.090	0.045	20.03(1)	195.78(3)	0.123
30017	0.000	3	max	0.028	0.036	0.173	0.134	0.051	20.03(1)	153.79(3)	0.174
	1.404	3	max	0.028	0.036	0.150	0.144	0.051	20.03(1)	158.30(3)	0.152
30018	0.000	3	max	0.049	0.055	0.117	0.085	0.026	20.03(1)	251.65(3)	0.117
	1.404	3	max	0.049	0.055	0.102	0.115	0.024	20.03(1)	232.10(3)	0.116
30019	0.000	3	max	0.049	0.055	0.152	0.196	0.023	20.03(1)	158.62(3)	0.196
	1.404	3	max	0.049	0.055	0.168	0.166	0.022	20.03(1)	146.91(3)	0.169
30020	0.000	3	max	0.030	0.035	0.104	0.064	0.033	20.03(1)	192.84(3)	0.106
	1.404	3	max	0.030	0.035	0.132	0.087	0.034	20.03(1)	185.32(3)	0.133
30021	0.000	3	max	0.025	0.027	0.177	0.131	0.064	20.03(1)	154.64(3)	0.178
	1.404	3	max	0.025	0.027	0.141	0.131	0.062	20.03(1)	173.69(3)	0.146
30022	0.000	3	max	0.029	0.034	0.088	0.060	0.081	20.03(1)	227.75(3)	0.099
	1.404	3	max	0.029	0.034	0.039	0.061	0.079	20.03(1)	372.14(3)	0.098
30023	0.000	3	max	0.022	0.022	0.061	0.072	0.168	20.03(1)	400.86(3)	0.179
	1.404	3	max	0.022	0.022	0.053	0.064	0.168	20.03(1)	261.81(3)	0.169
30024	0.000	3	max	0.020	0.029	0.295	0.352	0.244	20.03(1)	137.80(3)	0.395
	0.500	3	max	0.021	0.028	0.463	0.520	0.244	20.03(1)	112.42(3)	0.523
30025	0.000	3	max	0.188	0.195	0.205	0.210	0.004	20.03(1)	209.08(3)	0.210
	0.700	3	max	0.188	0.195	0.219	0.226	0.003	20.03(1)	96.70(3)	0.226
	1.400	3	max	0.188	0.195	0.241	0.236	0.004	20.03(1)	93.02(3)	0.241
30026	0.000	3	max	0.257	0.257	0.310	0.298	0.003	20.03(1)	88.57(3)	0.310
	0.700	3	max	0.257	0.257	0.314	0.303	0.002	20.03(1)	77.50(3)	0.314
	1.400	3	max	0.257	0.257	0.318	0.301	0.002	20.03(1)	77.51(3)	0.318

Steel - Resistance of Cross Sections

Utilisation Level

Beam	x[m]	SNo	LC	$\sigma_{-n,c}$	$\sigma_{-n,t}$	σ_{-x}	σ_{+x}	τ	c/t	c/t-lim	σ_{-v}
30027	0.000	3	max	0.322	0.317	0.383	0.361	0.002	20.03(1)	76.77(3)	0.383
	0.700	3	max	0.322	0.317	0.384	0.367	0.001	20.03(1)	69.61(3)	0.384
	1.400	3	max	0.322	0.317	0.381	0.366	0.002	20.03(1)	69.71(3)	0.381
30028	0.000	3	max	0.299	0.300	0.359	0.348	0.002	20.03(1)	69.25(3)	0.359
	0.700	3	max	0.299	0.300	0.347	0.346	0.002	20.03(1)	71.49(3)	0.347
	1.400	3	max	0.299	0.300	0.342	0.337	0.003	20.03(1)	72.47(3)	0.342
30029	0.000	3	max	0.032	0.034	0.301	0.248	0.026	20.03(1)	79.67(3)	0.301
	0.775	3	max	0.032	0.034	0.129	0.108	0.024	20.03(1)	122.66(3)	0.130
	1.550	3	max	0.032	0.034	0.095	0.088	0.023	20.03(1)	142.51(3)	0.096
30030	0.000	3	max	0.069	0.072	0.113	0.122	0.006	20.03(1)	215.74(3)	0.122
	0.700	3	max	0.069	0.072	0.096	0.107	0.007	20.03(1)	427.48(3)	0.107
	1.400	3	max	0.069	0.072	0.099	0.090	0.008	20.03(1)	249.56(3)	0.099
30031	0.000	3	max	0.133	0.142	0.160	0.160	0.005	20.03(1)	147.69(3)	0.161
	0.700	3	max	0.133	0.142	0.152	0.162	0.004	20.03(1)	106.71(3)	0.162
	1.400	3	max	0.133	0.142	0.150	0.157	0.003	20.03(1)	111.69(3)	0.157
30032	0.000	3	max	0.032	0.035	0.338	0.276	0.028	20.03(1)	74.31(3)	0.339
	0.775	3	max	0.032	0.035	0.144	0.105	0.027	20.03(1)	113.65(3)	0.145
	1.550	3	max	0.032	0.035	0.105	0.082	0.026	20.03(1)	132.74(3)	0.106
30033	0.000	3	max	0.076	0.079	0.102	0.142	0.006	20.03(1)	200.85(3)	0.142
	0.700	3	max	0.076	0.079	0.080	0.118	0.007	20.03(1)	439.92(3)	0.118
	1.400	3	max	0.076	0.079	0.100	0.087	0.008	20.03(1)	508.76(3)	0.100
30034	0.000	3	max	0.133	0.170	0.146	0.178	0.004	20.03(1)	134.45(3)	0.178
	0.700	3	max	0.133	0.170	0.154	0.194	0.003	20.03(1)	110.62(3)	0.194
	1.400	3	max	0.133	0.170	0.172	0.204	0.004	20.03(1)	107.75(3)	0.204
30035	0.000	3	max	0.207	0.250	0.246	0.283	0.004	20.03(1)	102.74(3)	0.283
	0.700	3	max	0.207	0.250	0.240	0.287	0.003	20.03(1)	85.57(3)	0.287
	1.400	3	max	0.207	0.250	0.241	0.285	0.002	20.03(1)	86.54(3)	0.285
30036	0.000	3	max	0.256	0.311	0.290	0.346	0.003	20.03(1)	86.47(3)	0.346
	0.700	3	max	0.256	0.311	0.295	0.356	0.002	20.03(1)	78.69(3)	0.356
	1.400	3	max	0.256	0.311	0.305	0.359	0.003	20.03(1)	78.13(3)	0.359
30037	0.000	3	max	0.307	0.377	0.356	0.425	0.002	20.03(1)	76.83(3)	0.425
	0.700	3	max	0.307	0.377	0.352	0.427	0.001	20.03(1)	70.93(3)	0.427
	1.400	3	max	0.307	0.377	0.351	0.422	0.002	20.03(1)	71.53(3)	0.422
30038	0.000	3	max	0.298	0.367	0.341	0.413	0.003	20.03(1)	71.53(3)	0.413
	0.700	3	max	0.298	0.367	0.349	0.423	0.004	20.03(1)	72.54(3)	0.423
	1.400	3	max	0.298	0.367	0.363	0.427	0.005	20.03(1)	71.75(3)	0.427
30039	0.000	3	max	0.234	0.305	0.299	0.365	0.004	20.03(1)	70.41(3)	0.365
	0.700	3	max	0.234	0.305	0.280	0.360	0.003	20.03(1)	77.69(3)	0.360
	1.400	3	max	0.234	0.305	0.267	0.349	0.004	20.03(1)	79.95(3)	0.349
30040	0.000	3	max	0.111	0.172	0.142	0.216	0.008	20.03(1)	91.31(3)	0.216
	0.700	3	max	0.111	0.172	0.183	0.251	0.009	20.03(1)	113.34(3)	0.251
	1.400	3	max	0.111	0.172	0.228	0.279	0.010	20.03(1)	100.08(3)	0.279
30041	0.000	3	max	0.038	0.075	0.145	0.193	0.050	20.03(1)	145.46(3)	0.195
	0.700	3	max	0.038	0.075	0.197	0.266	0.049	20.03(1)	125.67(3)	0.267
	1.400	3	max	0.038	0.075	0.467	0.561	0.048	20.03(1)	83.45(3)	0.562
30042	0.000	3	max	0.074	0.077	0.206	0.242	0.108	20.03(1)	176.85(3)	0.248
	0.150	3	max	0.074	0.077	0.093	0.162	0.108	20.03(1)	150.60(3)	0.164
30043	0.000	3	max	0.075	0.078	0.096	0.163	0.017	20.03(1)	149.51(3)	0.163
	1.404	3	max	0.075	0.078	0.095	0.116	0.019	20.03(1)	196.62(3)	0.116
30044	0.000	3	max	0.217	0.299	0.270	0.357	0.003	20.03(1)	321.82(3)	0.357
	0.700	3	max	0.217	0.299	0.257	0.354	0.002	20.03(1)	81.98(3)	0.354
	1.400	3	max	0.217	0.299	0.250	0.344	0.003	20.03(1)	83.57(3)	0.344
30045	0.000	3	max	0.110	0.169	0.142	0.213	0.007	20.03(1)	91.40(3)	0.213
	0.700	3	max	0.110	0.169	0.177	0.247	0.008	20.03(1)	113.53(3)	0.247
	1.400	3	max	0.110	0.169	0.217	0.275	0.009	20.03(1)	253.10(3)	0.275
30046	0.000	3	max	0.038	0.059	0.144	0.166	0.044	20.03(1)	145.54(3)	0.167
	0.700	3	max	0.038	0.059	0.195	0.223	0.043	20.03(1)	126.37(3)	0.224
	1.400	3	max	0.038	0.059	0.464	0.482	0.043	20.03(1)	83.89(3)	0.482

Steel - Resistance of Cross Sections

Utilisation Level

Beam	x[m]	SNo	LC	σ -n,c	σ -n,t	σ -x	σ +x	τ	c/t	c/t-lim	σ -v
30047	0.000	3	max	0.083	0.073	0.216	0.231	0.087	20.03(1)	171.13(3)	0.234
	0.150	3	max	0.083	0.073	0.103	0.170	0.087	20.03(1)	146.45(3)	0.171
30048	0.000	3	max	0.084	0.074	0.105	0.171	0.012	20.03(1)	145.59(3)	0.171
	1.404	3	max	0.084	0.074	0.104	0.112	0.014	20.03(1)	189.12(3)	0.112
30049	0.000	3	max	0.173	0.143	0.193	0.176	0.008	20.03(1)	132.15(3)	0.193
	1.404	3	max	0.173	0.143	0.198	0.188	0.008	20.03(1)	153.16(3)	0.198
30050	0.000	3	max	0.257	0.212	0.282	0.270	0.016	20.03(1)	119.85(3)	0.282
	1.404	3	max	0.257	0.212	0.294	0.309	0.018	20.03(1)	118.95(3)	0.309
30051	0.000	3	max	0.319	0.260	0.356	0.356	0.015	20.03(1)	104.91(3)	0.356
	1.404	3	max	0.319	0.260	0.366	0.328	0.017	20.03(1)	106.86(3)	0.366
30052	0.000	3	max	0.360	0.298	0.407	0.355	0.007	20.03(1)	99.20(3)	0.407
	1.404	3	max	0.360	0.298	0.419	0.343	0.009	20.03(1)	100.79(3)	0.419
30053	0.000	3	max	0.360	0.298	0.419	0.342	0.008	20.03(1)	100.81(3)	0.419
	1.404	3	max	0.360	0.298	0.417	0.362	0.007	20.03(1)	100.20(3)	0.417
30054	0.000	3	max	0.375	0.306	0.433	0.381	0.015	20.03(1)	97.39(3)	0.433
	1.404	3	max	0.375	0.306	0.441	0.419	0.015	20.03(1)	98.89(3)	0.441
30055	0.000	3	max	0.363	0.293	0.427	0.406	0.016	20.03(1)	100.43(3)	0.427
	1.404	3	max	0.363	0.293	0.436	0.385	0.015	20.03(1)	102.32(3)	0.436
30056	0.000	3	max	0.289	0.227	0.361	0.308	0.015	20.03(1)	117.55(3)	0.361
	1.404	3	max	0.289	0.227	0.312	0.248	0.013	20.03(1)	107.96(3)	0.312
30057	0.000	3	max	0.158	0.119	0.181	0.141	0.013	20.03(1)	149.49(3)	0.181
	1.404	3	max	0.158	0.119	0.222	0.159	0.011	20.03(1)	117.92(3)	0.222
30058	0.000	3	max	0.109	0.088	0.179	0.143	0.151	20.03(1)	134.48(3)	0.206
	0.500	3	max	0.109	0.088	0.674	0.723	0.151	20.03(1)	72.73(3)	0.726
30059	0.000	3	max	0.032	0.026	0.339	0.277	0.029	20.03(1)	74.12(3)	0.340
	0.775	3	max	0.032	0.026	0.145	0.092	0.027	20.03(1)	113.33(3)	0.145
	1.550	3	max	0.032	0.026	0.105	0.072	0.026	20.03(1)	132.40(3)	0.106
30060	0.000	3	max	0.076	0.079	0.101	0.143	0.006	20.03(1)	200.04(3)	0.143
	0.700	3	max	0.076	0.079	0.081	0.118	0.007	20.03(1)	440.31(3)	0.118
	1.400	3	max	0.076	0.079	0.098	0.085	0.008	20.03(1)	150.67(3)	0.098
30061	0.000	3	max	0.129	0.172	0.146	0.178	0.005	20.03(1)	164.05(3)	0.178
	0.700	3	max	0.129	0.172	0.147	0.196	0.003	20.03(1)	112.68(3)	0.196
	1.400	3	max	0.129	0.172	0.160	0.207	0.003	20.03(1)	112.00(3)	0.207
30062	0.000	3	max	0.194	0.253	0.226	0.289	0.003	20.03(1)	111.33(3)	0.289
	0.700	3	max	0.194	0.253	0.223	0.291	0.002	20.03(1)	97.46(3)	0.291
	1.400	3	max	0.194	0.253	0.226	0.287	0.002	20.03(1)	97.77(3)	0.287
30063	0.000	3	max	0.242	0.314	0.274	0.347	0.003	20.03(1)	96.57(3)	0.347
	0.700	3	max	0.242	0.314	0.278	0.358	0.002	20.03(1)	89.31(3)	0.358
	1.400	3	max	0.242	0.314	0.288	0.362	0.002	20.03(1)	89.26(3)	0.362
30064	0.000	3	max	0.292	0.379	0.338	0.427	0.002	20.03(1)	88.08(3)	0.427
	0.700	3	max	0.292	0.379	0.334	0.429	0.001	20.03(1)	82.32(3)	0.429
	1.400	3	max	0.292	0.379	0.334	0.424	0.002	20.03(1)	82.83(3)	0.424
30065	0.000	3	max	0.282	0.370	0.323	0.415	0.003	20.03(1)	82.41(3)	0.415
	0.700	3	max	0.282	0.370	0.329	0.427	0.003	20.03(1)	83.59(3)	0.427
	1.400	3	max	0.282	0.370	0.339	0.433	0.004	20.03(1)	83.30(3)	0.433
30066	0.000	3	max	0.227	0.306	0.284	0.369	0.003	20.03(1)	82.09(3)	0.369
	0.700	3	max	0.227	0.306	0.270	0.363	0.003	20.03(1)	88.64(3)	0.363
	1.400	3	max	0.227	0.306	0.261	0.350	0.004	20.03(1)	81.52(3)	0.350
30067	0.000	3	max	0.114	0.172	0.148	0.216	0.007	20.03(1)	90.89(3)	0.216
	0.700	3	max	0.114	0.172	0.182	0.250	0.008	20.03(1)	113.13(3)	0.250
	1.400	3	max	0.114	0.172	0.220	0.278	0.009	20.03(1)	239.25(3)	0.278
30068	0.000	3	max	0.038	0.058	0.145	0.164	0.044	20.03(1)	145.05(3)	0.165
	0.700	3	max	0.038	0.058	0.198	0.222	0.043	20.03(1)	125.14(3)	0.223
	1.400	3	max	0.038	0.058	0.468	0.481	0.044	20.03(1)	83.18(3)	0.482
30069	0.000	3	max	0.076	0.068	0.205	0.221	0.099	20.03(1)	175.77(3)	0.223
	0.150	3	max	0.076	0.068	0.095	0.162	0.098	20.03(1)	149.27(3)	0.164
30070	0.000	3	max	0.078	0.069	0.097	0.163	0.018	20.03(1)	148.09(3)	0.163
	1.404	3	max	0.078	0.069	0.096	0.105	0.020	20.03(1)	192.80(3)	0.105

Steel - Resistance of Cross Sections

Utilisation Level

Beam	x[m]	SNo	LC	$\sigma-n,c$	$\sigma-n,t$	$\sigma-x$	$\sigma+x$	τ	c/t	c/t-lim	$\sigma-v$
30071	0.000	3	max	0.170	0.143	0.188	0.174	0.011	20.03(1)	131.75(3)	0.188
	1.404	3	max	0.170	0.143	0.193	0.188	0.011	20.03(1)	150.83(3)	0.193
30072	0.000	3	max	0.264	0.219	0.289	0.278	0.015	20.03(1)	116.04(3)	0.289
	1.404	3	max	0.264	0.219	0.310	0.322	0.017	20.03(1)	118.08(3)	0.322
30073	0.000	3	max	0.324	0.267	0.369	0.367	0.015	20.03(1)	104.48(3)	0.369
	1.404	3	max	0.324	0.267	0.369	0.331	0.017	20.03(1)	104.18(3)	0.369
30074	0.000	3	max	0.367	0.300	0.412	0.355	0.006	20.03(1)	97.01(3)	0.412
	1.404	3	max	0.367	0.300	0.426	0.346	0.008	20.03(1)	99.35(3)	0.426
30075	0.000	3	max	0.032	0.024	0.333	0.272	0.028	20.03(1)	74.68(3)	0.334
	0.775	3	max	0.032	0.024	0.141	0.086	0.027	20.03(1)	114.35(3)	0.142
	1.550	3	max	0.032	0.024	0.104	0.068	0.025	20.03(1)	133.35(3)	0.104
30076	0.000	3	max	0.077	0.080	0.103	0.142	0.006	20.03(1)	201.20(3)	0.142
	0.700	3	max	0.077	0.080	0.083	0.118	0.007	20.03(1)	434.90(3)	0.118
	1.400	3	max	0.077	0.080	0.101	0.088	0.008	20.03(1)	149.27(3)	0.101
30077	0.000	3	max	0.128	0.170	0.149	0.178	0.004	20.03(1)	301.50(3)	0.178
	0.700	3	max	0.128	0.170	0.146	0.193	0.003	20.03(1)	209.01(3)	0.193
	1.400	3	max	0.128	0.170	0.158	0.202	0.002	20.03(1)	113.42(3)	0.202
30078	0.000	3	max	0.189	0.248	0.219	0.279	0.003	20.03(1)	109.68(3)	0.279
	0.700	3	max	0.189	0.248	0.217	0.283	0.002	20.03(1)	92.75(3)	0.283
	1.400	3	max	0.189	0.248	0.221	0.279	0.002	20.03(1)	93.31(3)	0.279
30079	0.000	3	max	0.238	0.309	0.270	0.341	0.003	20.03(1)	92.37(3)	0.341
	0.700	3	max	0.238	0.309	0.276	0.353	0.002	20.03(1)	83.31(3)	0.353
	1.400	3	max	0.238	0.309	0.286	0.358	0.002	20.03(1)	82.70(3)	0.358
30080	0.000	3	max	0.287	0.373	0.335	0.422	0.002	20.03(1)	81.10(3)	0.422
	0.700	3	max	0.287	0.373	0.331	0.423	0.000	20.03(1)	74.84(3)	0.423
	1.400	3	max	0.287	0.373	0.330	0.418	0.002	20.03(1)	75.54(3)	0.418
30081	0.000	3	max	0.274	0.361	0.316	0.405	0.002	20.03(1)	75.45(3)	0.405
	0.700	3	max	0.274	0.361	0.319	0.416	0.003	20.03(1)	77.09(3)	0.416
	1.400	3	max	0.274	0.361	0.327	0.419	0.004	20.03(1)	160.01(3)	0.419
30082	0.000	3	max	0.223	0.301	0.276	0.359	0.003	20.03(1)	82.76(3)	0.359
	0.700	3	max	0.223	0.301	0.264	0.356	0.002	20.03(1)	89.12(3)	0.356
	1.400	3	max	0.223	0.301	0.257	0.345	0.003	20.03(1)	82.41(3)	0.345
30083	0.000	3	max	0.113	0.170	0.147	0.214	0.007	20.03(1)	90.84(3)	0.214
	0.700	3	max	0.113	0.170	0.182	0.249	0.008	20.03(1)	112.77(3)	0.249
	1.400	3	max	0.113	0.170	0.220	0.277	0.009	20.03(1)	238.10(3)	0.277
30084	0.000	3	max	0.039	0.059	0.146	0.166	0.044	20.03(1)	145.20(3)	0.167
	0.700	3	max	0.039	0.059	0.197	0.224	0.043	20.03(1)	126.03(3)	0.225
	1.400	3	max	0.039	0.059	0.468	0.484	0.044	20.03(1)	83.67(3)	0.485
30085	0.000	3	max	0.079	0.071	0.213	0.228	0.091	20.03(1)	173.26(3)	0.233
	0.150	3	max	0.079	0.071	0.099	0.165	0.091	20.03(1)	148.07(3)	0.166
30086	0.000	3	max	0.080	0.073	0.100	0.166	0.014	20.03(1)	147.15(3)	0.166
	1.404	3	max	0.080	0.073	0.097	0.109	0.016	20.03(1)	191.88(3)	0.109
30087	0.000	3	max	0.170	0.144	0.188	0.177	0.007	20.03(1)	132.63(3)	0.188
	1.404	3	max	0.170	0.144	0.192	0.187	0.006	20.03(1)	153.59(3)	0.192
30088	0.000	3	max	0.264	0.219	0.285	0.274	0.016	20.03(1)	117.58(3)	0.285
	1.404	3	max	0.264	0.218	0.296	0.310	0.018	20.03(1)	117.06(3)	0.310
30089	0.000	3	max	0.325	0.268	0.359	0.358	0.014	20.03(1)	103.55(3)	0.359
	1.404	3	max	0.325	0.268	0.368	0.330	0.016	20.03(1)	104.92(3)	0.368
30090	0.000	3	max	0.369	0.302	0.413	0.355	0.006	20.03(1)	97.59(3)	0.413
	1.404	3	max	0.369	0.302	0.426	0.350	0.008	20.03(1)	99.62(3)	0.426
30091	0.000	3	max	0.369	0.302	0.426	0.351	0.007	20.03(1)	99.64(3)	0.426
	1.404	3	max	0.369	0.302	0.423	0.363	0.006	20.03(1)	98.67(3)	0.423
30092	0.000	3	max	0.390	0.317	0.445	0.390	0.014	20.03(1)	95.28(3)	0.445
	1.404	3	max	0.390	0.317	0.451	0.425	0.013	20.03(1)	96.71(3)	0.451
30093	0.000	3	max	0.377	0.304	0.436	0.409	0.014	20.03(1)	98.12(3)	0.436
	1.404	3	max	0.377	0.304	0.444	0.390	0.012	20.03(1)	99.86(3)	0.444
30094	0.000	3	max	0.287	0.229	0.353	0.305	0.015	20.03(1)	117.71(3)	0.353
	1.404	3	max	0.287	0.229	0.308	0.252	0.013	20.03(1)	108.30(3)	0.308

Steel - Resistance of Cross Sections

Utilisation Level

Beam	x[m]	SNo	LC	σ -n,c	σ -n,t	σ -x	σ +x	τ	c/t	c/t-lim	σ -v
30095	0.000	3	max	0.156	0.119	0.176	0.145	0.013	20.03(1)	150.55(3)	0.176
	1.404	3	max	0.156	0.119	0.220	0.163	0.011	20.03(1)	118.55(3)	0.220
30096	0.000	3	max	0.110	0.090	0.175	0.135	0.146	20.03(1)	134.36(3)	0.202
	0.500	3	max	0.110	0.090	0.675	0.716	0.146	20.03(1)	72.48(3)	0.720
30097	0.000	3	max	0.033	0.022	0.330	0.270	0.028	20.03(1)	75.01(3)	0.330
	0.775	3	max	0.033	0.022	0.140	0.080	0.026	20.03(1)	114.86(3)	0.141
	1.550	3	max	0.033	0.022	0.102	0.062	0.025	20.03(1)	133.96(3)	0.103
30098	0.000	3	max	0.078	0.080	0.105	0.140	0.005	20.03(1)	201.92(3)	0.140
	0.700	3	max	0.078	0.080	0.082	0.117	0.007	20.03(1)	431.99(3)	0.117
	1.400	3	max	0.078	0.080	0.102	0.088	0.008	20.03(1)	151.08(3)	0.102
30099	0.000	3	max	0.125	0.169	0.148	0.177	0.004	20.03(1)	159.99(3)	0.177
	0.700	3	max	0.125	0.169	0.143	0.192	0.003	20.03(1)	113.25(3)	0.192
	1.400	3	max	0.125	0.169	0.155	0.200	0.003	20.03(1)	114.57(3)	0.200
30100	0.000	3	max	0.184	0.245	0.214	0.276	0.003	20.03(1)	110.77(3)	0.276
	0.700	3	max	0.184	0.245	0.211	0.280	0.002	20.03(1)	93.83(3)	0.280
	1.400	3	max	0.184	0.245	0.215	0.276	0.002	20.03(1)	94.57(3)	0.276
30101	0.000	3	max	0.232	0.307	0.263	0.338	0.003	20.03(1)	93.74(3)	0.338
	0.700	3	max	0.232	0.307	0.268	0.350	0.002	20.03(1)	84.61(3)	0.350
	1.400	3	max	0.232	0.307	0.279	0.355	0.003	20.03(1)	83.89(3)	0.355
30102	0.000	3	max	0.280	0.371	0.327	0.419	0.002	20.03(1)	82.13(3)	0.419
	0.700	3	max	0.280	0.371	0.322	0.420	0.001	20.03(1)	75.82(3)	0.420
	1.400	3	max	0.280	0.371	0.321	0.415	0.002	20.03(1)	74.85(3)	0.415
30103	0.000	3	max	0.267	0.359	0.308	0.403	0.002	20.03(1)	74.90(3)	0.403
	0.700	3	max	0.267	0.359	0.311	0.413	0.003	20.03(1)	76.46(3)	0.413
	1.400	3	max	0.267	0.359	0.320	0.416	0.004	20.03(1)	76.12(3)	0.416
30104	0.000	3	max	0.033	0.031	0.335	0.274	0.028	20.03(1)	74.43(3)	0.336
	0.775	3	max	0.033	0.031	0.142	0.089	0.027	20.03(1)	113.94(3)	0.143
	1.550	3	max	0.033	0.031	0.104	0.072	0.025	20.03(1)	132.94(3)	0.105
30105	0.000	3	max	0.078	0.081	0.105	0.143	0.006	20.03(1)	201.42(3)	0.143
	0.700	3	max	0.078	0.081	0.082	0.120	0.007	20.03(1)	439.33(3)	0.120
	1.400	3	max	0.078	0.081	0.102	0.089	0.008	20.03(1)	694.47(3)	0.102
30106	0.000	3	max	0.125	0.172	0.149	0.180	0.004	20.03(1)	406.71(3)	0.180
	0.700	3	max	0.125	0.172	0.144	0.196	0.003	20.03(1)	243.52(3)	0.196
	1.400	3	max	0.125	0.172	0.155	0.204	0.003	20.03(1)	111.82(3)	0.204
30107	0.000	3	max	0.187	0.251	0.218	0.283	0.003	20.03(1)	277.78(3)	0.283
	0.700	3	max	0.187	0.251	0.215	0.286	0.002	20.03(1)	310.59(3)	0.286
	1.400	3	max	0.187	0.251	0.218	0.283	0.002	20.03(1)	323.39(3)	0.283
30108	0.000	3	max	0.236	0.313	0.267	0.345	0.003	20.03(1)	282.76(3)	0.345
	0.700	3	max	0.236	0.313	0.272	0.357	0.002	20.03(1)	313.34(3)	0.357
	1.400	3	max	0.236	0.313	0.283	0.361	0.003	20.03(1)	359.17(3)	0.361
30109	0.000	3	max	0.284	0.378	0.331	0.426	0.002	20.03(1)	332.09(3)	0.426
	0.700	3	max	0.284	0.378	0.326	0.428	0.001	20.03(1)	425.04(3)	0.428
	1.400	3	max	0.284	0.378	0.325	0.423	0.002	20.03(1)	74.31(3)	0.423
30110	0.000	3	max	0.270	0.365	0.311	0.410	0.002	20.03(1)	74.33(3)	0.410
	0.700	3	max	0.270	0.365	0.315	0.420	0.003	20.03(1)	76.01(3)	0.420
	1.400	3	max	0.270	0.365	0.324	0.424	0.004	20.03(1)	75.63(3)	0.424
30111	0.000	3	max	0.216	0.305	0.270	0.363	0.003	20.03(1)	74.57(3)	0.363
	0.700	3	max	0.216	0.305	0.256	0.360	0.002	20.03(1)	81.86(3)	0.360
	1.400	3	max	0.216	0.305	0.248	0.350	0.003	20.03(1)	90.56(3)	0.350
30112	0.000	3	max	0.112	0.172	0.140	0.217	0.008	20.03(1)	90.85(3)	0.217
	0.700	3	max	0.112	0.172	0.174	0.252	0.009	20.03(1)	112.83(3)	0.252
	1.400	3	max	0.112	0.172	0.218	0.280	0.010	20.03(1)	102.60(3)	0.280
30113	0.000	3	max	0.039	0.073	0.147	0.189	0.048	20.03(1)	144.61(3)	0.191
	0.700	3	max	0.039	0.073	0.198	0.256	0.047	20.03(1)	125.48(3)	0.257
	1.400	3	max	0.039	0.073	0.471	0.541	0.046	20.03(1)	83.28(3)	0.541
30114	0.000	3	max	0.082	0.081	0.216	0.254	0.091	20.03(1)	169.85(3)	0.256
	0.150	3	max	0.082	0.081	0.103	0.167	0.091	20.03(1)	146.64(3)	0.169
30115	0.000	3	max	0.083	0.082	0.105	0.168	0.014	20.03(1)	145.75(3)	0.168

Steel - Resistance of Cross Sections

Utilisation Level

Beam	x[m]	SNo	LC	$\sigma-n,c$	$\sigma-n,t$	$\sigma-x$	$\sigma+x$	τ	c/t	c/t-lim	$\sigma-v$
30115	1.404	3	max	0.083	0.082	0.101	0.122	0.016	20.03(1)	187.97(3)	0.122
30116	0.000	3	max	0.175	0.155	0.193	0.194	0.011	20.03(1)	130.86(3)	0.194
	1.404	3	max	0.175	0.155	0.198	0.196	0.011	20.03(1)	150.61(3)	0.198
30117	0.000	3	max	0.258	0.222	0.281	0.277	0.013	20.03(1)	118.76(3)	0.281
	1.404	3	max	0.258	0.222	0.292	0.316	0.014	20.03(1)	118.18(3)	0.316
30118	0.000	3	max	0.320	0.271	0.355	0.362	0.014	20.03(1)	104.12(3)	0.362
	1.404	3	max	0.320	0.271	0.366	0.322	0.015	20.03(1)	105.79(3)	0.366
30119	0.000	3	max	0.363	0.299	0.410	0.338	0.007	20.03(1)	98.40(3)	0.410
	1.404	3	max	0.363	0.299	0.424	0.367	0.009	20.03(1)	100.27(3)	0.424
30120	0.000	3	max	0.363	0.299	0.424	0.368	0.007	20.03(1)	100.28(3)	0.424
	1.404	3	max	0.363	0.299	0.421	0.341	0.007	20.03(1)	99.49(3)	0.421
30121	0.000	3	max	0.382	0.313	0.439	0.366	0.014	20.03(1)	96.35(3)	0.439
	1.404	3	max	0.382	0.313	0.445	0.416	0.014	20.03(1)	97.67(3)	0.445
30122	0.000	3	max	0.370	0.299	0.431	0.404	0.018	20.03(1)	99.15(3)	0.431
	1.404	3	max	0.370	0.299	0.440	0.392	0.017	20.03(1)	101.07(3)	0.440
30123	0.000	3	max	0.295	0.235	0.366	0.315	0.011	20.03(1)	115.82(3)	0.366
	1.404	3	max	0.295	0.235	0.317	0.256	0.009	20.03(1)	106.72(3)	0.317
30124	0.000	3	max	0.162	0.121	0.183	0.143	0.009	20.03(1)	147.57(3)	0.183
	1.404	3	max	0.162	0.121	0.227	0.157	0.009	20.03(1)	116.65(3)	0.228
30125	0.000	3	max	0.110	0.091	0.180	0.139	0.170	20.03(1)	133.05(3)	0.206
	0.500	3	max	0.111	0.091	0.680	0.810	0.170	20.03(1)	72.12(3)	0.813
30126	0.000	3	max	0.254	0.260	0.297	0.297	0.004	20.03(1)	100.63(3)	0.297
	0.700	3	max	0.254	0.260	0.296	0.303	0.005	20.03(1)	78.34(3)	0.303
	1.400	3	max	0.254	0.260	0.304	0.305	0.006	20.03(1)	78.00(3)	0.305
30127	0.000	3	max	0.133	0.153	0.184	0.198	0.009	20.03(1)	99.10(3)	0.198
	0.700	3	max	0.133	0.153	0.226	0.230	0.010	20.03(1)	119.55(3)	0.230
	1.400	3	max	0.133	0.153	0.268	0.254	0.011	20.03(1)	114.72(3)	0.268
30128	0.000	3	max	0.032	0.073	0.133	0.208	0.052	20.03(1)	153.16(3)	0.210
	0.700	3	max	0.032	0.073	0.175	0.272	0.052	20.03(1)	134.61(3)	0.273
	1.400	3	max	0.032	0.073	0.439	0.585	0.050	20.03(1)	88.88(3)	0.586
30129	0.000	3	max	0.063	0.074	0.217	0.311	0.278	20.03(1)	178.74(3)	0.361
	0.150	3	max	0.063	0.074	0.096	0.162	0.278	20.03(1)	161.56(3)	0.297
30130	0.000	3	max	0.065	0.076	0.095	0.161	0.030	20.03(1)	159.68(3)	0.161
	1.404	3	max	0.065	0.076	0.094	0.143	0.032	20.03(1)	220.13(3)	0.144
30131	0.000	3	max	0.135	0.151	0.163	0.187	0.028	20.03(1)	148.53(3)	0.188
	1.404	3	max	0.135	0.151	0.189	0.186	0.029	20.03(1)	176.54(3)	0.189
30132	0.000	3	max	0.177	0.189	0.245	0.223	0.027	20.03(1)	147.26(3)	0.245
	1.404	3	max	0.177	0.189	0.256	0.205	0.028	20.03(1)	141.68(3)	0.256
30133	0.000	3	max	0.239	0.259	0.312	0.312	0.023	20.03(1)	119.25(3)	0.312
	1.404	3	max	0.239	0.259	0.322	0.306	0.021	20.03(1)	125.17(3)	0.322
30134	0.000	3	max	0.269	0.295	0.353	0.372	0.017	20.03(1)	115.62(3)	0.372
	1.404	3	max	0.269	0.295	0.340	0.401	0.016	20.03(1)	116.23(3)	0.401
30135	0.000	3	max	0.269	0.296	0.335	0.365	0.010	20.03(1)	116.00(3)	0.365
	1.404	3	max	0.269	0.296	0.354	0.344	0.010	20.03(1)	116.76(3)	0.354
30136	0.000	3	max	0.291	0.317	0.387	0.394	0.021	20.03(1)	110.45(3)	0.394
	1.404	3	max	0.291	0.317	0.390	0.357	0.022	20.03(1)	109.98(3)	0.390
30137	0.000	3	max	0.274	0.295	0.367	0.373	0.035	20.03(1)	112.77(3)	0.373
	1.404	3	max	0.274	0.295	0.374	0.390	0.033	20.03(1)	117.63(3)	0.390
30138	0.000	3	max	0.238	0.254	0.333	0.341	0.030	20.03(1)	129.42(3)	0.342
	1.404	3	max	0.238	0.254	0.269	0.307	0.029	20.03(1)	117.82(3)	0.307
30139	0.000	3	max	0.131	0.134	0.161	0.160	0.039	20.03(1)	165.12(3)	0.162
	1.404	3	max	0.131	0.134	0.197	0.192	0.037	20.03(1)	125.76(3)	0.197
30140	0.000	3	max	0.101	0.113	0.207	0.332	0.211	20.03(1)	142.52(3)	0.379
	0.500	3	max	0.101	0.113	0.655	0.881	0.211	20.03(1)	78.71(3)	0.882
30141	0.000	3	max	0.367	0.300	0.425	0.347	0.007	20.03(1)	99.41(3)	0.425
	1.404	3	max	0.367	0.300	0.423	0.363	0.006	20.03(1)	98.18(3)	0.423
30142	0.000	3	max	0.389	0.316	0.447	0.391	0.015	20.03(1)	94.63(3)	0.447
	1.404	3	max	0.389	0.316	0.461	0.434	0.015	20.03(1)	97.11(3)	0.461

Steel - Resistance of Cross Sections

Utilisation Level

Beam	x[m]	SNo	LC	$\sigma_{-n,c}$	$\sigma_{-n,t}$	σ_{-x}	σ_{+x}	τ	c/t	c/t-lim	σ_{-v}
30143	0.000	3	max	0.380	0.306	0.449	0.421	0.018	20.03(1)	98.23(3)	0.449
	1.404	3	max	0.380	0.306	0.448	0.395	0.016	20.03(1)	98.89(3)	0.448
30144	0.000	3	max	0.289	0.231	0.357	0.308	0.011	20.03(1)	116.53(3)	0.357
	1.404	3	max	0.289	0.231	0.309	0.252	0.010	20.03(1)	107.20(3)	0.309
30145	0.000	3	max	0.154	0.117	0.174	0.143	0.016	20.03(1)	150.39(3)	0.174
	1.404	3	max	0.154	0.117	0.221	0.163	0.017	20.03(1)	118.44(3)	0.221
30146	0.000	3	max	0.110	0.090	0.187	0.129	0.143	20.03(1)	133.87(3)	0.213
	0.500	3	max	0.110	0.090	0.672	0.713	0.143	20.03(1)	72.16(3)	0.717
30147	0.000	3	max	0.166	0.159	0.186	0.195	0.015	20.03(1)	133.32(3)	0.195
	1.404	3	max	0.166	0.159	0.193	0.201	0.013	20.03(1)	152.21(3)	0.201
30148	0.000	3	max	0.255	0.244	0.285	0.299	0.015	20.03(1)	117.70(3)	0.300
	1.404	3	max	0.255	0.244	0.304	0.355	0.017	20.03(1)	119.29(3)	0.355
30149	0.000	3	max	0.316	0.293	0.364	0.401	0.012	20.03(1)	105.18(3)	0.401
	1.404	3	max	0.316	0.293	0.366	0.344	0.012	20.03(1)	105.71(3)	0.366
30150	0.000	3	max	0.359	0.327	0.410	0.367	0.011	20.03(1)	98.16(3)	0.410
	1.404	3	max	0.359	0.327	0.423	0.399	0.012	20.03(1)	100.46(3)	0.423
30151	0.000	3	max	0.359	0.327	0.422	0.399	0.008	20.03(1)	100.48(3)	0.422
	1.404	3	max	0.359	0.327	0.420	0.371	0.007	20.03(1)	99.32(3)	0.420
30152	0.000	3	max	0.381	0.344	0.444	0.400	0.018	20.03(1)	95.66(3)	0.444
	1.404	3	max	0.381	0.344	0.456	0.467	0.020	20.03(1)	97.79(3)	0.467
30153	0.000	3	max	0.371	0.334	0.444	0.461	0.023	20.03(1)	98.84(3)	0.461
	1.404	3	max	0.371	0.334	0.444	0.436	0.021	20.03(1)	99.73(3)	0.444
30154	0.000	3	max	0.285	0.246	0.357	0.335	0.013	20.03(1)	116.95(3)	0.357
	1.404	3	max	0.285	0.246	0.307	0.261	0.011	20.03(1)	107.85(3)	0.307
30155	0.000	3	max	0.152	0.121	0.171	0.135	0.015	20.03(1)	151.45(3)	0.171
	1.404	3	max	0.152	0.121	0.219	0.155	0.016	20.03(1)	118.71(3)	0.219
30156	0.000	3	max	0.110	0.095	0.184	0.154	0.173	20.03(1)	133.84(3)	0.216
	0.500	3	max	0.110	0.094	0.667	0.833	0.173	20.03(1)	72.43(3)	0.837
30157	0.000	3	max	0.031	0.022	0.319	0.263	0.027	20.03(1)	77.30(3)	0.319
	0.775	3	max	0.031	0.022	0.135	0.079	0.026	20.03(1)	118.86(3)	0.136
	1.550	3	max	0.031	0.022	0.098	0.060	0.024	20.03(1)	138.00(3)	0.098
30158	0.000	3	max	0.072	0.076	0.100	0.134	0.006	20.03(1)	211.64(3)	0.134
	0.700	3	max	0.072	0.076	0.080	0.116	0.007	20.03(1)	439.78(3)	0.116
	1.400	3	max	0.072	0.076	0.101	0.095	0.008	20.03(1)	151.52(3)	0.102
30159	0.000	3	max	0.114	0.154	0.138	0.172	0.004	20.03(1)	157.94(3)	0.172
	0.700	3	max	0.114	0.154	0.128	0.174	0.003	20.03(1)	116.04(3)	0.174
	1.400	3	max	0.114	0.154	0.126	0.170	0.002	20.03(1)	120.08(3)	0.170
30160	0.000	3	max	0.159	0.213	0.172	0.229	0.004	20.03(1)	121.54(3)	0.229
	0.700	3	max	0.159	0.213	0.180	0.246	0.003	20.03(1)	103.35(3)	0.246
	1.400	3	max	0.159	0.213	0.196	0.256	0.004	20.03(1)	100.62(3)	0.256
30161	0.000	3	max	0.214	0.281	0.251	0.324	0.003	20.03(1)	105.45(3)	0.324
	0.700	3	max	0.214	0.281	0.254	0.330	0.001	20.03(1)	95.02(3)	0.330
	1.400	3	max	0.214	0.281	0.258	0.329	0.002	20.03(1)	95.42(3)	0.329
30162	0.000	3	max	0.266	0.348	0.310	0.396	0.002	20.03(1)	94.43(3)	0.396
	0.700	3	max	0.266	0.348	0.309	0.401	0.001	20.03(1)	87.30(3)	0.401
	1.400	3	max	0.266	0.348	0.308	0.399	0.002	20.03(1)	87.59(3)	0.399
30163	0.000	3	max	0.248	0.329	0.290	0.381	0.002	20.03(1)	86.79(3)	0.381
	0.700	3	max	0.248	0.329	0.282	0.379	0.002	20.03(1)	89.38(3)	0.379
	1.400	3	max	0.248	0.329	0.281	0.370	0.003	20.03(1)	90.76(3)	0.370
30164	0.000	3	max	0.210	0.285	0.243	0.326	0.003	20.03(1)	90.96(3)	0.326
	0.700	3	max	0.210	0.285	0.246	0.332	0.003	20.03(1)	96.33(3)	0.332
	1.400	3	max	0.210	0.285	0.250	0.335	0.004	20.03(1)	95.87(3)	0.335
30165	0.000	3	max	0.112	0.168	0.152	0.217	0.007	20.03(1)	94.29(3)	0.217
	0.700	3	max	0.112	0.168	0.183	0.250	0.008	20.03(1)	114.02(3)	0.250
	1.400	3	max	0.112	0.168	0.217	0.277	0.009	20.03(1)	109.30(3)	0.277
30166	0.000	3	max	0.034	0.055	0.143	0.159	0.042	20.03(1)	147.34(3)	0.160
	0.700	3	max	0.034	0.055	0.187	0.207	0.041	20.03(1)	129.63(3)	0.208
	1.400	3	max	0.034	0.055	0.444	0.452	0.041	20.03(1)	85.47(3)	0.453

Steel - Resistance of Cross Sections

Utilisation Level

Beam	x[m]	SNo	LC	$\sigma-n,c$	$\sigma-n,t$	$\sigma-x$	$\sigma+x$	τ	c/t	c/t-lim	$\sigma-v$
30167	0.000	3	max	0.069	0.064	0.230	0.227	0.189	20.03(1)	166.79(3)	0.277
	0.150	3	max	0.069	0.064	0.097	0.164	0.190	20.03(1)	155.72(3)	0.203
30168	0.000	3	max	0.071	0.065	0.103	0.165	0.022	20.03(1)	154.97(3)	0.165
	1.404	3	max	0.071	0.065	0.106	0.111	0.024	20.03(1)	212.06(3)	0.112
30169	0.000	3	max	0.149	0.127	0.170	0.163	0.022	20.03(1)	141.31(3)	0.170
	1.404	3	max	0.149	0.127	0.193	0.187	0.021	20.03(1)	166.27(3)	0.193
30170	0.000	3	max	0.197	0.163	0.269	0.260	0.025	20.03(1)	139.34(3)	0.270
	1.404	3	max	0.197	0.163	0.278	0.296	0.027	20.03(1)	133.86(3)	0.296
30171	0.000	3	max	0.266	0.219	0.325	0.331	0.019	20.03(1)	112.38(3)	0.331
	1.404	3	max	0.266	0.219	0.339	0.308	0.020	20.03(1)	117.97(3)	0.339
30172	0.000	3	max	0.301	0.245	0.390	0.340	0.017	20.03(1)	109.31(3)	0.391
	1.404	3	max	0.301	0.245	0.379	0.305	0.018	20.03(1)	109.99(3)	0.379
30173	0.000	3	max	0.302	0.245	0.360	0.287	0.010	20.03(1)	109.10(3)	0.360
	1.404	3	max	0.302	0.245	0.378	0.326	0.010	20.03(1)	109.68(3)	0.378
30174	0.000	3	max	0.325	0.262	0.426	0.377	0.030	20.03(1)	104.77(3)	0.426
	1.404	3	max	0.325	0.262	0.429	0.411	0.028	20.03(1)	104.32(3)	0.429
30175	0.000	3	max	0.307	0.244	0.390	0.374	0.034	20.03(1)	106.24(3)	0.391
	1.404	3	max	0.307	0.244	0.401	0.355	0.035	20.03(1)	110.73(3)	0.401
30176	0.000	3	max	0.264	0.211	0.369	0.322	0.021	20.03(1)	123.39(3)	0.369
	1.404	3	max	0.264	0.211	0.305	0.231	0.023	20.03(1)	112.75(3)	0.305
30177	0.000	3	max	0.147	0.113	0.174	0.142	0.026	20.03(1)	155.79(3)	0.175
	1.404	3	max	0.147	0.113	0.216	0.162	0.024	20.03(1)	119.58(3)	0.216
30178	0.000	3	max	0.110	0.091	0.280	0.237	0.163	20.03(1)	138.24(3)	0.294
	0.500	3	max	0.110	0.091	0.638	0.669	0.163	20.03(1)	75.63(3)	0.671
30179	0.000	3	max	0.045	0.020	0.390	0.300	0.037	20.03(1)	132.74(3)	0.391
	0.775	3	max	0.045	0.020	0.169	0.079	0.036	20.03(1)	217.37(3)	0.170
	1.550	3	max	0.045	0.020	0.139	0.054	0.035	20.03(1)	254.57(3)	0.139
30180	0.000	3	max	0.049	0.032	0.142	0.057	0.015	20.03(1)	261.97(3)	0.142
	0.700	3	max	0.049	0.032	0.160	0.064	0.016	20.03(1)	216.94(3)	0.160
	1.400	3	max	0.049	0.032	0.173	0.086	0.017	20.03(1)	187.23(3)	0.173
30181	0.000	3	max	0.042	0.031	0.166	0.092	0.023	20.03(1)	193.45(3)	0.167
	0.700	3	max	0.042	0.031	0.253	0.170	0.022	20.03(1)	169.15(3)	0.253
	1.400	3	max	0.042	0.031	0.355	0.272	0.022	20.03(1)	144.01(3)	0.355
30182	0.000	3	max	0.026	0.011	0.339	0.288	0.185	20.03(1)	145.89(3)	0.339
	0.400	3	max	0.026	0.011	0.384	0.405	0.185	20.03(1)	97.95(3)	0.415
30183	0.000	3	max	0.026	0.011	0.384	0.405	0.062	20.03(1)	97.92(3)	0.406
	1.000	3	max	0.026	0.011	0.212	0.160	0.060	20.03(1)	161.06(3)	0.212
30184	0.000	3	max	0.021	0.012	0.207	0.165	0.016	20.03(1)	165.91(3)	0.207
	0.700	3	max	0.021	0.012	0.154	0.113	0.017	20.03(1)	172.61(3)	0.154
	1.400	3	max	0.021	0.012	0.158	0.117	0.019	20.03(1)	170.68(3)	0.158
30185	0.000	3	max	0.011	0.007	0.149	0.127	0.019	20.03(1)	171.84(3)	0.149
	0.700	3	max	0.011	0.007	0.151	0.129	0.018	20.03(1)	168.62(3)	0.151
	1.400	3	max	0.011	0.007	0.211	0.188	0.017	20.03(1)	157.09(3)	0.211
30186	0.000	3	max	0.007	0.007	0.207	0.192	0.069	20.03(1)	154.96(3)	0.208
	0.900	3	max	0.007	0.007	0.394	0.397	0.070	20.03(1)	95.14(3)	0.398
30187	0.000	3	max	0.008	0.007	0.394	0.397	0.151	20.03(1)	95.14(3)	0.402
	0.500	3	max	0.008	0.007	0.325	0.309	0.152	20.03(1)	134.52(3)	0.325
30188	0.000	3	max	0.017	0.025	0.334	0.300	0.023	20.03(1)	145.44(3)	0.334
	0.700	3	max	0.017	0.025	0.222	0.189	0.022	20.03(1)	166.87(3)	0.222
	1.400	3	max	0.017	0.025	0.154	0.121	0.022	20.03(1)	201.16(3)	0.154
30189	0.000	3	max	0.011	0.019	0.148	0.127	0.015	20.03(1)	196.68(3)	0.148
	0.700	3	max	0.011	0.019	0.082	0.067	0.016	20.03(1)	258.37(3)	0.082
	1.400	3	max	0.011	0.019	0.059	0.061	0.017	20.03(1)	215.09(3)	0.061
30190	0.000	3	max	0.011	0.023	0.053	0.074	0.022	20.03(1)	300.87(3)	0.074
	0.700	3	max	0.011	0.023	0.056	0.079	0.021	20.03(1)	423.83(3)	0.079
	1.400	3	max	0.011	0.023	0.160	0.179	0.021	20.03(1)	231.58(3)	0.179
30191	0.000	3	max	0.027	0.027	0.136	0.191	0.411	20.03(1)	295.80(3)	0.428
	0.150	3	max	0.027	0.027	0.095	0.150	0.411	20.03(1)	207.31(3)	0.416

Steel - Resistance of Cross Sections

Utilisation Level

Beam	x[m]	SNo	LC	$\sigma-n,c$	$\sigma-n,t$	$\sigma-x$	$\sigma+x$	τ	c/t	c/t-lim	$\sigma-v$
30192	0.000	3	max	0.028	0.027	0.086	0.139	0.117	20.03(1)	212.16(3)	0.161
	1.404	3	max	0.028	0.027	0.046	0.068	0.115	20.03(1)	318.02(3)	0.123
30193	0.000	3	max	0.027	0.024	0.093	0.094	0.072	20.03(1)	226.26(3)	0.100
	1.404	3	max	0.027	0.024	0.131	0.137	0.074	20.03(1)	176.99(3)	0.140
30194	0.000	3	max	0.028	0.030	0.073	0.091	0.044	20.03(1)	348.18(3)	0.094
	1.404	3	max	0.028	0.030	0.116	0.148	0.046	20.03(1)	205.45(3)	0.148
30195	0.000	3	max	0.028	0.028	0.184	0.209	0.047	20.03(1)	149.57(3)	0.211
	1.404	3	max	0.028	0.028	0.157	0.158	0.046	20.03(1)	154.75(3)	0.160
30196	0.000	3	max	0.049	0.046	0.108	0.104	0.025	20.03(1)	253.33(3)	0.108
	1.404	3	max	0.049	0.046	0.092	0.071	0.023	20.03(1)	333.30(3)	0.093
30197	0.000	3	max	0.049	0.046	0.157	0.133	0.022	20.03(1)	156.93(3)	0.157
	1.404	3	max	0.049	0.046	0.175	0.168	0.023	20.03(1)	144.67(3)	0.175
30198	0.000	3	max	0.030	0.030	0.094	0.098	0.038	20.03(1)	204.06(3)	0.101
	1.404	3	max	0.030	0.030	0.127	0.155	0.036	20.03(1)	193.58(3)	0.156
30199	0.000	3	max	0.024	0.026	0.187	0.214	0.068	20.03(1)	151.48(3)	0.214
	1.404	3	max	0.024	0.026	0.150	0.162	0.066	20.03(1)	169.44(3)	0.166
30200	0.000	3	max	0.032	0.024	0.087	0.089	0.068	20.03(1)	270.72(3)	0.104
	1.404	3	max	0.032	0.024	0.051	0.050	0.070	20.03(1)	359.84(3)	0.082
30201	0.000	3	max	0.025	0.016	0.069	0.048	0.145	20.03(1)	388.93(3)	0.159
	1.404	3	max	0.025	0.016	0.061	0.068	0.147	20.03(1)	250.06(3)	0.154
30202	0.000	3	max	0.023	0.018	0.297	0.271	0.126	20.03(1)	116.19(3)	0.302
	0.500	3	max	0.024	0.018	0.399	0.423	0.126	20.03(1)	109.95(3)	0.423
60001	0.000	6	max	0.007	0.007	0.585	0.618	0.214	118.02(3) ¹	172.87(3)	0.621
	0.600	6	max	0.007	0.007	0.335	0.320	0.166	118.02(3) ¹	356.69(3)	0.344
	1.200	6	max	0.007	0.007	0.573	0.554	0.118	118.02(3) ¹	245.97(3)	0.578
	1.800	6	max	0.007	0.007	0.650	0.633	0.113	118.02(3)	235.77(3)	0.658
	2.400	6	max	0.007	0.007	0.446	0.430	0.181	118.02(3) ¹	286.98(3)	0.466
	3.000	6	max	0.007	0.007	0.139	0.132	0.250	118.02(3) ¹	668.25(3)	0.250
	3.600	6	max	0.007	0.007	0.837	0.814	0.228	118.02(3)	193.64(3)	0.841
60002	0.000	6	max	0.010	0.011	0.632	0.613	0.131	118.02(3) ¹	195.40(3)	0.634
	0.583	6	max	0.010	0.011	0.201	0.184	0.099	118.02(3) ¹	356.41(3)	0.203
	1.167	6	max	0.010	0.011	0.144	0.164	0.072	118.02(3) ¹	326.38(3)	0.166
	1.750	6	max	0.010	0.011	0.237	0.257	0.044	118.02(3) ¹	274.84(3)	0.257
	2.333	6	max	0.010	0.011	0.162	0.183	0.060	118.02(3) ¹	311.87(3)	0.184
	2.917	6	max	0.010	0.011	0.074	0.082	0.100	118.02(3) ¹	391.72(3)	0.100
	3.500	6	max	0.010	0.011	0.466	0.494	0.122	118.02(3) ¹	204.43(3)	0.496
60003	0.000	6	max	0.011	0.012	0.467	0.498	0.124	118.02(3) ¹	201.57(3)	0.499
	0.583	6	max	0.011	0.012	0.060	0.080	0.082	118.02(3) ¹	378.21(3)	0.087
	1.167	6	max	0.011	0.012	0.194	0.193	0.040	118.02(3) ¹	296.39(3)	0.195
	1.750	6	max	0.011	0.012	0.265	0.272	0.003	118.02(3) ¹	261.86(3)	0.272
	2.333	6	max	0.011	0.012	0.177	0.185	0.043	118.02(3) ¹	301.53(3)	0.186
	2.917	6	max	0.011	0.012	0.093	0.095	0.085	118.02(3) ¹	365.48(3)	0.102
	3.500	6	max	0.011	0.012	0.502	0.520	0.127	118.02(3) ¹	197.78(3)	0.522
60004	0.000	6	max	0.012	0.013	0.502	0.523	0.126	118.02(3) ¹	196.65(3)	0.524
	0.583	6	max	0.012	0.013	0.099	0.101	0.084	118.02(3) ¹	355.37(3)	0.106
	1.167	6	max	0.012	0.013	0.164	0.177	0.042	118.02(3) ¹	303.34(3)	0.178
	1.750	6	max	0.012	0.013	0.245	0.261	0.002	118.02(3) ¹	264.66(3)	0.261
	2.333	6	max	0.012	0.013	0.168	0.179	0.042	118.02(3) ¹	628.00(3)	0.180
	2.917	6	max	0.012	0.013	0.091	0.097	0.083	118.02(3) ¹	358.14(3)	0.103
	3.500	6	max	0.012	0.013	0.490	0.518	0.125	118.02(3) ¹	197.44(3)	0.519
60005	0.000	6	max	0.011	0.012	0.487	0.516	0.125	118.02(3) ¹	198.27(3)	0.517
	0.583	6	max	0.011	0.012	0.088	0.096	0.083	118.02(3) ¹	363.23(3)	0.102
	1.167	6	max	0.011	0.012	0.171	0.177	0.043	118.02(3) ¹	305.35(3)	0.178
	1.750	6	max	0.011	0.012	0.248	0.259	0.003	118.02(3) ¹	266.80(3)	0.259
	2.333	6	max	0.011	0.012	0.167	0.173	0.042	118.02(3) ¹	307.08(3)	0.175
	2.917	6	max	0.011	0.012	0.096	0.103	0.084	118.02(3) ¹	358.13(3)	0.109
	3.500	6	max	0.011	0.012	0.498	0.526	0.126	118.02(3) ¹	196.81(3)	0.528
60006	0.000	6	max	0.011	0.012	0.497	0.524	0.128	118.02(3) ¹	197.79(3)	0.526

Steel - Resistance of Cross Sections

Utilisation Level

Beam	x[m]	SNo	LC	$\sigma-n,c$	$\sigma-n,t$	$\sigma-x$	$\sigma+x$	τ	c/t	c/t-lim	$\sigma-v$
60006	0.583	6	max	0.011	0.012	0.089	0.097	0.086	118.02(3) ¹	368.70(3)	0.103
	1.167	6	max	0.011	0.012	0.178	0.185	0.046	118.02(3) ¹	302.94(3)	0.186
	1.750	6	max	0.011	0.012	0.264	0.275	0.006	118.02(3) ¹	696.78(3)	0.275
	2.333	6	max	0.011	0.012	0.190	0.199	0.039	118.02(3) ¹	294.86(3)	0.199
	2.917	6	max	0.011	0.012	0.065	0.070	0.081	118.02(3) ¹	390.71(3)	0.082
	3.500	6	max	0.011	0.012	0.460	0.485	0.123	118.02(3) ¹	204.01(3)	0.486
60007	0.000	6	max	0.009	0.011	0.453	0.479	0.117	118.02(3) ¹	207.24(3)	0.480
	0.583	6	max	0.009	0.011	0.075	0.080	0.075	118.02(3) ¹	395.85(3)	0.086
	1.167	6	max	0.009	0.011	0.162	0.170	0.034	118.02(3) ¹	320.86(3)	0.171
	1.750	6	max	0.009	0.011	0.219	0.230	0.011	118.02(3) ¹	287.76(3)	0.231
	2.333	6	max	0.009	0.011	0.117	0.124	0.051	118.02(3) ¹	361.34(3)	0.126
	2.917	6	max	0.009	0.011	0.166	0.171	0.092	118.02(3) ¹	321.38(3)	0.174
60008	3.500	6	max	0.009	0.011	0.591	0.615	0.133	118.02(3)	187.01(3)	0.616
	0.000	6	max	0.007	0.008	0.702	0.724	0.165	118.02(3)	173.86(3)	0.726
	0.586	6	max	0.007	0.008	0.160	0.165	0.124	118.02(3) ¹	328.36(3)	0.172
	1.171	6	max	0.007	0.008	0.228	0.241	0.082	118.02(3) ¹	288.82(3)	0.245
	1.757	6	max	0.007	0.008	0.444	0.461	0.049	118.02(3)	217.36(3)	0.461
	2.343	6	max	0.007	0.008	0.494	0.512	0.027	118.02(3)	206.80(3)	0.512
	2.929	6	max	0.007	0.008	0.375	0.395	0.060	118.02(3) ¹	231.73(3)	0.396
	3.514	6	max	0.007	0.008	0.272	0.283	0.100	118.02(3) ¹	374.70(3)	0.284
60009	4.100	6	max	0.007	0.008	0.502	0.483	0.146	118.02(3) ¹	194.00(3)	0.502
	0.000	6	max	0.113	0.108	0.606	0.684	0.128	118.02(4)	117.76(3)	0.686
	0.583	6	max	0.113	0.108	0.184	0.261	0.088	118.02(3) ¹	131.51(3)	0.264
	1.167	6	max	0.113	0.108	0.300	0.230	0.060	118.02(3) ¹	130.17(3)	0.300
	1.750	6	max	0.113	0.108	0.389	0.334	0.032	118.02(3) ¹	126.66(3)	0.389
	2.333	6	max	0.113	0.108	0.309	0.277	0.054	118.02(3) ¹	129.97(3)	0.309
	2.917	6	max	0.113	0.108	0.178	0.156	0.094	118.02(3) ¹	130.88(3)	0.179
60010	3.500	6	max	0.113	0.108	0.576	0.526	0.123	118.02(3) ¹	119.38(3)	0.579
	0.000	6	max	0.087	0.148	0.495	0.811	0.253	118.02(3) ¹	146.39(3)	0.811
	0.600	6	max	0.087	0.148	0.314	0.527	0.205	118.02(3) ¹	150.85(3)	0.528
	1.200	6	max	0.087	0.148	0.472	0.762	0.157	118.02(3) ¹	134.64(3)	0.762
	1.800	6	max	0.087	0.148	0.554	0.846	0.142	118.02(3) ¹	131.34(3)	0.846
	2.400	6	max	0.087	0.148	0.370	0.648	0.211	118.02(3) ¹	140.25(3)	0.654
	3.000	6	max	0.087	0.148	0.184	0.338	0.279	118.02(3) ¹	148.38(3)	0.358
60011	3.600	6	max	0.087	0.148	0.601	0.887	0.226	118.02(3) ¹	126.15(3)	0.894
	0.000	6	max	0.048	0.030	0.482	0.462	0.122	118.02(3) ¹	189.92(3)	0.483
	0.583	6	max	0.048	0.030	0.111	0.067	0.081	118.02(3) ¹	197.35(3)	0.111
	1.167	6	max	0.048	0.030	0.231	0.188	0.039	118.02(3) ¹	202.84(3)	0.231
	1.750	6	max	0.048	0.030	0.300	0.264	0.010	118.02(3) ¹	201.22(3)	0.300
	2.333	6	max	0.048	0.030	0.210	0.173	0.050	118.02(3) ¹	204.18(3)	0.212
60012	2.917	6	max	0.048	0.030	0.132	0.085	0.090	118.02(3) ¹	203.46(3)	0.137
	3.500	6	max	0.048	0.030	0.543	0.507	0.131	118.02(3) ¹	185.71(3)	0.544
	0.000	6	max	0.008	0.017	0.704	0.721	0.219	118.02(3)	144.86(3)	0.724
	0.586	6	max	0.008	0.017	0.162	0.157	0.191	118.02(3) ¹	279.81(3)	0.205
	1.171	6	max	0.008	0.017	0.241	0.274	0.163	118.02(3) ¹	238.25(3)	0.277
	1.757	6	max	0.008	0.017	0.462	0.498	0.135	118.02(3)	178.38(3)	0.498
	2.343	6	max	0.008	0.017	0.517	0.554	0.111	118.02(3)	168.12(3)	0.554
	2.929	6	max	0.008	0.017	0.414	0.442	0.147	118.02(3)	185.20(3)	0.442
60013	3.514	6	max	0.008	0.017	0.257	0.289	0.186	118.02(3) ¹	277.01(3)	0.289
	4.100	6	max	0.008	0.017	0.469	0.468	0.165	118.02(3) ¹	208.25(3)	0.469
	0.000	6	max	0.057	0.037	0.562	0.548	0.125	118.02(3) ¹	138.06(3)	0.563
	0.583	6	max	0.057	0.037	0.157	0.126	0.084	118.02(3) ¹	183.34(3)	0.160
	1.167	6	max	0.057	0.037	0.202	0.200	0.042	118.02(3) ¹	179.57(3)	0.203
	1.750	6	max	0.057	0.037	0.286	0.284	0.010	118.02(3) ¹	168.90(3)	0.286
60014	2.333	6	max	0.057	0.037	0.211	0.200	0.047	118.02(3) ¹	178.42(3)	0.212
	2.917	6	max	0.057	0.037	0.140	0.125	0.087	118.02(3) ¹	184.59(3)	0.143
	3.500	6	max	0.057	0.037	0.536	0.546	0.125	118.02(3) ¹	140.16(3)	0.548
	0.000	6	max	0.020	0.019	0.524	0.525	0.125	118.02(3) ¹	159.16(3)	0.527

Steel - Resistance of Cross Sections

Utilisation Level

Beam	x[m]	SNo	LC	$\sigma_{-n,c}$	$\sigma_{-n,t}$	σ_{-x}	σ_{+x}	τ	c/t	c/t-lim	$\sigma-v$
60014	0.583	6	max	0.020	0.019	0.117	0.105	0.084	118.02(3) ¹	311.85(3)	0.120
	1.167	6	max	0.020	0.019	0.172	0.182	0.056	118.02(3) ¹	247.56(3)	0.183
	1.750	6	max	0.020	0.019	0.257	0.264	0.030	118.02(3) ¹	216.32(3)	0.264
	2.333	6	max	0.020	0.019	0.183	0.179	0.069	118.02(3) ¹	277.52(3)	0.190
	2.917	6	max	0.020	0.019	0.092	0.111	0.108	118.02(3) ¹	290.96(3)	0.116
	3.500	6	max	0.020	0.019	0.492	0.534	0.148	118.02(3) ¹	165.11(3)	0.535
60015	0.000	6	max	0.033	0.016	0.642	0.622	0.235	118.02(3) ¹	157.14(3)	0.647
	0.600	6	max	0.033	0.016	0.398	0.331	0.187	118.02(3) ¹	185.43(3)	0.409
	1.200	6	max	0.033	0.016	0.641	0.570	0.139	118.02(3) ¹	140.82(3)	0.648
	1.800	6	max	0.033	0.016	0.719	0.651	0.134	118.02(3) ¹	134.96(3)	0.730
	2.400	6	max	0.033	0.016	0.516	0.448	0.203	118.02(3) ¹	154.27(3)	0.540
	3.000	6	max	0.033	0.016	0.185	0.126	0.271	118.02(3) ¹	228.34(3)	0.273
60016	0.000	6	max	0.038	0.050	0.560	0.560	0.125	118.02(3) ¹	146.16(3)	0.562
	0.583	6	max	0.038	0.050	0.149	0.138	0.090	118.02(3) ¹	227.58(3)	0.151
	1.167	6	max	0.038	0.050	0.180	0.214	0.062	118.02(3) ¹	217.97(3)	0.215
	1.750	6	max	0.038	0.050	0.270	0.298	0.035	118.02(3) ¹	204.98(3)	0.298
	2.333	6	max	0.038	0.050	0.200	0.215	0.072	118.02(3) ¹	218.38(3)	0.216
	2.917	6	max	0.038	0.050	0.105	0.135	0.112	118.02(3) ¹	228.85(3)	0.139
60017	0.000	6	max	0.020	0.027	0.532	0.543	0.129	118.02(3) ¹	186.18(3)	0.545
	0.583	6	max	0.020	0.027	0.116	0.113	0.088	118.02(3) ¹	299.55(3)	0.120
	1.167	6	max	0.020	0.027	0.184	0.202	0.060	118.02(3) ¹	266.62(3)	0.203
	1.750	6	max	0.020	0.027	0.278	0.295	0.032	118.02(3) ¹	236.84(3)	0.295
	2.333	6	max	0.020	0.027	0.214	0.221	0.066	118.02(3) ¹	258.01(3)	0.222
	2.917	6	max	0.020	0.027	0.052	0.081	0.106	118.02(3) ¹	309.69(3)	0.107
60018	0.000	6	max	0.035	0.020	0.655	0.582	0.148	118.02(3) ¹	139.20(3)	0.656
	0.583	6	max	0.035	0.020	0.219	0.150	0.120	118.02(3) ¹	202.86(3)	0.226
	1.167	6	max	0.035	0.020	0.155	0.194	0.093	118.02(3) ¹	230.31(3)	0.196
	1.750	6	max	0.035	0.020	0.243	0.282	0.065	118.02(3) ¹	200.02(3)	0.282
	2.333	6	max	0.035	0.020	0.197	0.202	0.084	118.02(3) ¹	210.08(3)	0.209
	2.917	6	max	0.035	0.020	0.079	0.087	0.124	118.02(3) ¹	235.65(3)	0.129
60019	0.000	6	max	0.022	0.028	0.478	0.500	0.123	118.02(3) ¹	191.44(3)	0.501
	0.583	6	max	0.022	0.028	0.107	0.085	0.081	118.02(3) ¹	296.46(3)	0.108
	1.167	6	max	0.022	0.028	0.197	0.216	0.049	118.02(3) ¹	251.71(3)	0.217
	1.750	6	max	0.022	0.028	0.273	0.293	0.029	118.02(3) ¹	231.56(3)	0.293
	2.333	6	max	0.022	0.028	0.191	0.203	0.069	118.02(3) ¹	257.72(3)	0.204
	2.917	6	max	0.022	0.028	0.086	0.111	0.108	118.02(3) ¹	285.54(3)	0.117
60020	0.000	6	max	0.010	0.024	0.478	0.493	0.118	118.02(3) ¹	171.60(3)	0.494
	0.583	6	max	0.010	0.024	0.089	0.090	0.076	118.02(3) ¹	342.08(3)	0.095
	1.167	6	max	0.010	0.024	0.161	0.190	0.043	118.02(3) ¹	281.61(3)	0.191
	1.750	6	max	0.010	0.024	0.227	0.255	0.032	118.02(3) ¹	246.32(3)	0.255
	2.333	6	max	0.010	0.024	0.136	0.152	0.071	118.02(3) ¹	308.20(3)	0.154
	2.917	6	max	0.010	0.024	0.138	0.163	0.111	118.02(3) ¹	299.50(3)	0.167
60021	0.000	6	max	0.037	0.038	0.522	0.544	0.125	118.02(3) ¹	150.77(3)	0.546
	0.583	6	max	0.037	0.038	0.122	0.125	0.083	118.02(3) ¹	223.83(3)	0.129
	1.167	6	max	0.037	0.038	0.193	0.201	0.041	118.02(3) ¹	207.97(3)	0.202
	1.750	6	max	0.037	0.038	0.273	0.282	0.004	118.02(3) ¹	190.57(3)	0.282
	2.333	6	max	0.037	0.038	0.193	0.197	0.043	118.02(3) ¹	208.21(3)	0.198
	2.917	6	max	0.037	0.038	0.122	0.133	0.084	118.02(3) ¹	224.12(3)	0.137
60022	0.000	6	max	0.005	0.029	0.503	0.526	0.129	118.02(3)	172.67(3)	0.528
	0.583	6	max	0.005	0.029	0.088	0.095	0.087	118.02(3) ¹	379.83(3)	0.102
	1.167	6	max	0.005	0.029	0.174	0.185	0.046	118.02(3)	289.17(3)	0.187

Steel - Resistance of Cross Sections

Utilisation Level

Beam	x[m]	SNo	LC	$\sigma-n,c$	$\sigma-n,t$	$\sigma-x$	$\sigma+x$	τ	c/t	c/t-lim	$\sigma-v$
60022	1.750	6	max	0.005	0.029	0.264	0.279	0.009	118.02(3)	238.06(3)	0.279
	2.333	6	max	0.005	0.029	0.195	0.206	0.042	118.02(3)	273.02(3)	0.207
	2.917	6	max	0.005	0.029	0.055	0.069	0.082	118.02(3) ¹	479.86(3)	0.082
	3.500	6	max	0.005	0.029	0.441	0.466	0.122	118.02(3)	184.02(3)	0.468
60023	0.000	6	max	0.109	0.095	0.559	0.527	0.118	118.02(3) ¹	121.64(3)	0.562
	0.583	6	max	0.109	0.095	0.167	0.153	0.076	118.02(3) ¹	133.91(3)	0.168
	1.167	6	max	0.109	0.095	0.288	0.261	0.035	118.02(3) ¹	132.89(3)	0.288
	1.750	6	max	0.109	0.095	0.353	0.323	0.016	118.02(3) ¹	130.03(3)	0.353
	2.333	6	max	0.109	0.095	0.250	0.224	0.056	118.02(3) ¹	133.59(3)	0.251
	2.917	6	max	0.109	0.095	0.239	0.230	0.095	118.02(3) ¹	134.24(3)	0.244
	3.500	6	max	0.109	0.095	0.676	0.647	0.132	118.02(4)	115.58(3)	0.679
60024	0.000	6	max	0.094	0.065	0.750	0.707	0.164	118.02(4)	116.64(3)	0.755
	0.586	6	max	0.094	0.065	0.239	0.193	0.122	118.02(3) ¹	146.46(3)	0.239
	1.171	6	max	0.094	0.065	0.374	0.319	0.093	118.02(3) ¹	137.00(3)	0.375
	1.757	6	max	0.094	0.065	0.591	0.528	0.065	118.02(3) ¹	123.93(3)	0.591
	2.343	6	max	0.094	0.065	0.639	0.576	0.043	118.02(3) ¹	121.55(3)	0.639
	2.929	6	max	0.094	0.065	0.517	0.463	0.078	118.02(3) ¹	128.87(3)	0.517
	3.514	6	max	0.094	0.065	0.402	0.354	0.118	118.02(3) ¹	147.86(3)	0.402
	4.100	6	max	0.094	0.065	0.629	0.572	0.172	118.02(3) ¹	138.23(3)	0.629
60025	0.000	6	max	0.044	0.044	0.649	0.606	0.266	118.02(3) ¹	150.25(3)	0.658
	0.600	6	max	0.044	0.044	0.422	0.331	0.218	118.02(3) ¹	169.80(3)	0.441
	1.200	6	max	0.044	0.044	0.680	0.585	0.170	118.02(3) ¹	133.04(3)	0.690
	1.800	6	max	0.044	0.044	0.766	0.673	0.159	118.02(3) ¹	127.42(3)	0.781
	2.400	6	max	0.044	0.044	0.570	0.477	0.227	118.02(3) ¹	142.41(3)	0.599
	3.000	6	max	0.044	0.044	0.273	0.190	0.296	118.02(3) ¹	202.48(3)	0.311
60026	3.600	6	max	0.044	0.044	0.773	0.672	0.239	118.02(3) ¹	126.09(3)	0.783
	0.000	6	max	0.087	0.101	0.565	0.608	0.151	118.02(3) ¹	127.22(3)	0.610
	0.583	6	max	0.087	0.101	0.168	0.188	0.112	118.02(3) ¹	151.10(3)	0.190
	1.167	6	max	0.087	0.101	0.239	0.265	0.072	118.02(3) ¹	149.60(3)	0.266
	1.750	6	max	0.087	0.101	0.314	0.348	0.033	118.02(3) ¹	144.93(3)	0.348
	2.333	6	max	0.087	0.101	0.231	0.264	0.058	118.02(3) ¹	149.61(3)	0.265
	2.917	6	max	0.087	0.101	0.188	0.190	0.085	118.02(3) ¹	149.98(3)	0.192
60027	3.500	6	max	0.087	0.101	0.593	0.611	0.125	118.02(3) ¹	124.97(3)	0.613
	0.000	6	max	0.027	0.030	0.567	0.508	0.125	118.02(3) ¹	150.49(3)	0.569
	0.583	6	max	0.027	0.030	0.148	0.093	0.092	118.02(3) ¹	236.81(3)	0.155
	1.167	6	max	0.027	0.030	0.182	0.240	0.064	118.02(3) ¹	232.94(3)	0.241
	1.750	6	max	0.027	0.030	0.264	0.321	0.036	118.02(3) ¹	203.36(3)	0.321
	2.333	6	max	0.027	0.030	0.204	0.235	0.067	118.02(3) ¹	220.15(3)	0.236
	2.917	6	max	0.027	0.030	0.072	0.093	0.107	118.02(3) ¹	265.59(3)	0.111
60028	3.500	6	max	0.027	0.030	0.455	0.504	0.141	118.02(3) ¹	165.15(3)	0.506
	0.000	6	max	0.021	0.026	0.491	0.543	0.144	118.02(3) ¹	163.69(3)	0.544
	0.583	6	max	0.021	0.026	0.088	0.112	0.105	118.02(3) ¹	285.10(3)	0.118
	1.167	6	max	0.021	0.026	0.196	0.202	0.065	118.02(3) ¹	234.19(3)	0.203
	1.750	6	max	0.021	0.026	0.279	0.295	0.025	118.02(3) ¹	207.17(3)	0.295
	2.333	6	max	0.021	0.026	0.203	0.221	0.047	118.02(3) ¹	230.81(3)	0.222
	2.917	6	max	0.021	0.026	0.099	0.080	0.080	118.02(3) ¹	286.47(3)	0.100
60029	3.500	6	max	0.021	0.026	0.478	0.486	0.122	118.02(3) ¹	164.33(3)	0.487
	0.000	6	max	0.028	0.029	0.446	0.489	0.127	118.02(3) ¹	165.16(3)	0.490
	0.583	6	max	0.028	0.029	0.069	0.083	0.087	118.02(3) ¹	262.20(3)	0.093
	1.167	6	max	0.028	0.029	0.202	0.212	0.047	118.02(3) ¹	219.53(3)	0.212
	1.750	6	max	0.028	0.029	0.257	0.279	0.020	118.02(3) ¹	204.31(3)	0.279
	2.333	6	max	0.028	0.029	0.154	0.180	0.048	118.02(3) ¹	236.85(3)	0.182
	2.917	6	max	0.028	0.029	0.167	0.145	0.089	118.02(3) ¹	230.19(3)	0.169
60030	3.500	6	max	0.028	0.029	0.592	0.582	0.140	118.02(3) ¹	147.76(3)	0.593
	0.000	6	max	0.036	0.040	0.640	0.668	0.187	118.02(3) ¹	139.70(3)	0.670
	0.586	6	max	0.036	0.040	0.127	0.175	0.147	118.02(3) ¹	224.67(3)	0.176
	1.171	6	max	0.036	0.040	0.320	0.344	0.107	118.02(3) ¹	180.09(3)	0.347
	1.757	6	max	0.036	0.040	0.520	0.554	0.068	118.02(3) ¹	152.07(3)	0.554

Steel - Resistance of Cross Sections

Utilisation Level

Beam	x[m]	SNo	LC	$\sigma-n,c$	$\sigma-n,t$	$\sigma-x$	$\sigma+x$	τ	c/t	c/t-lim	$\sigma-v$
60030	2.343	6	max	0.036	0.040	0.559	0.596	0.035	118.02(3) ¹	147.53(3)	0.596
	2.929	6	max	0.036	0.040	0.437	0.470	0.056	118.02(3) ¹	160.52(3)	0.470
	3.514	6	max	0.036	0.040	0.370	0.367	0.089	118.02(3) ¹	207.86(3)	0.370
	4.100	6	max	0.036	0.040	0.570	0.565	0.168	118.02(3) ¹	164.95(3)	0.573
60031	0.000	6	max	0.015	0.024	0.481	0.534	0.142	118.02(3) ¹	168.95(3)	0.536
	0.583	6	max	0.015	0.024	0.086	0.113	0.102	118.02(3) ¹	315.40(3)	0.118
	1.167	6	max	0.015	0.024	0.176	0.186	0.063	118.02(3) ¹	256.97(3)	0.187
	1.750	6	max	0.015	0.024	0.250	0.268	0.024	118.02(3) ¹	225.51(3)	0.268
	2.333	6	max	0.015	0.024	0.165	0.184	0.051	118.02(3) ¹	262.87(3)	0.185
	2.917	6	max	0.015	0.024	0.114	0.116	0.084	118.02(3) ¹	290.05(3)	0.121
	3.500	6	max	0.015	0.024	0.521	0.538	0.126	118.02(3) ¹	162.33(3)	0.539
60032	0.000	6	max	0.032	0.026	0.448	0.491	0.142	118.02(3) ¹	162.65(3)	0.492
	0.583	6	max	0.032	0.026	0.065	0.077	0.103	118.02(3) ¹	246.40(3)	0.108
	1.167	6	max	0.032	0.026	0.221	0.218	0.063	118.02(3) ¹	207.56(3)	0.225
	1.750	6	max	0.032	0.026	0.283	0.294	0.030	118.02(3) ¹	193.24(3)	0.294
	2.333	6	max	0.032	0.026	0.186	0.202	0.058	118.02(3) ¹	217.30(3)	0.204
	2.917	6	max	0.032	0.026	0.139	0.109	0.086	118.02(3) ¹	229.75(3)	0.142
	3.500	6	max	0.032	0.026	0.558	0.538	0.128	118.02(3) ¹	149.04(3)	0.560
60033	0.000	6	max	0.028	0.030	0.547	0.511	0.141	118.02(3) ¹	153.21(3)	0.548
	0.583	6	max	0.028	0.030	0.137	0.088	0.101	118.02(3) ¹	241.37(3)	0.147
	1.167	6	max	0.028	0.030	0.167	0.226	0.061	118.02(3) ¹	231.77(3)	0.227
	1.750	6	max	0.028	0.030	0.257	0.312	0.022	118.02(3) ¹	204.29(3)	0.312
	2.333	6	max	0.028	0.030	0.189	0.231	0.041	118.02(3) ¹	223.17(3)	0.232
	2.917	6	max	0.028	0.030	0.105	0.088	0.083	118.02(3) ¹	252.01(3)	0.105
	3.500	6	max	0.028	0.030	0.492	0.497	0.125	118.02(3) ¹	158.25(3)	0.499
60034	0.000	6	max	0.019	0.023	0.462	0.487	0.121	118.02(3) ¹	168.13(3)	0.489
	0.583	6	max	0.019	0.023	0.076	0.078	0.079	118.02(3) ¹	296.97(3)	0.085
	1.167	6	max	0.019	0.023	0.188	0.207	0.037	118.02(3) ¹	240.27(3)	0.208
	1.750	6	max	0.019	0.023	0.253	0.279	0.008	118.02(3) ¹	217.51(3)	0.279
	2.333	6	max	0.019	0.023	0.159	0.183	0.048	118.02(3) ¹	255.09(3)	0.185
	2.917	6	max	0.019	0.023	0.133	0.125	0.088	118.02(3) ¹	266.19(3)	0.138
	3.500	6	max	0.019	0.023	0.547	0.557	0.130	118.02(3) ¹	157.25(3)	0.559
60035	0.000	6	max	0.022	0.026	0.510	0.540	0.128	118.02(3) ¹	160.38(3)	0.542
	0.583	6	max	0.022	0.026	0.101	0.110	0.087	118.02(3) ¹	273.97(3)	0.116
	1.167	6	max	0.022	0.026	0.190	0.202	0.045	118.02(3) ¹	234.64(3)	0.203
	1.750	6	max	0.022	0.026	0.278	0.294	0.006	118.02(3) ¹	206.24(3)	0.294
	2.333	6	max	0.022	0.026	0.208	0.219	0.040	118.02(3) ¹	227.79(3)	0.220
	2.917	6	max	0.022	0.026	0.071	0.079	0.080	118.02(3) ¹	289.44(3)	0.086
	3.500	6	max	0.022	0.026	0.460	0.488	0.122	118.02(3) ¹	167.03(3)	0.490
60036	0.000	6	max	0.024	0.028	0.509	0.539	0.125	118.02(3) ¹	159.38(3)	0.540
	0.583	6	max	0.024	0.028	0.109	0.118	0.083	118.02(3) ¹	263.98(3)	0.123
	1.167	6	max	0.024	0.028	0.178	0.189	0.042	118.02(3) ¹	236.44(3)	0.190
	1.750	6	max	0.024	0.028	0.257	0.272	0.002	118.02(3) ¹	210.20(3)	0.272
	2.333	6	max	0.024	0.028	0.179	0.189	0.042	118.02(3) ¹	236.18(3)	0.190
	2.917	6	max	0.024	0.028	0.107	0.120	0.084	118.02(3) ¹	265.00(3)	0.124
	3.500	6	max	0.024	0.028	0.507	0.541	0.125	118.02(3) ¹	159.75(3)	0.543
60037	0.000	6	max	0.027	0.032	0.526	0.540	0.125	118.02(3) ¹	155.76(3)	0.541
	0.583	6	max	0.027	0.032	0.123	0.119	0.083	118.02(3) ¹	248.89(3)	0.127
	1.167	6	max	0.027	0.032	0.171	0.195	0.042	118.02(3) ¹	233.20(3)	0.196
	1.750	6	max	0.027	0.032	0.253	0.278	0.004	118.02(3) ¹	207.57(3)	0.278
	2.333	6	max	0.027	0.032	0.176	0.194	0.042	118.02(3) ¹	231.03(3)	0.195
	2.917	6	max	0.027	0.032	0.113	0.121	0.084	118.02(3) ¹	252.85(3)	0.126
	3.500	6	max	0.027	0.032	0.510	0.543	0.125	118.02(3) ¹	157.61(3)	0.544
60038	0.000	6	max	0.024	0.028	0.469	0.494	0.123	118.02(3) ¹	164.04(3)	0.496
	0.583	6	max	0.024	0.028	0.078	0.080	0.081	118.02(3) ¹	273.64(3)	0.088
	1.167	6	max	0.024	0.028	0.201	0.221	0.039	118.02(3) ¹	225.70(3)	0.222
	1.750	6	max	0.024	0.028	0.271	0.297	0.004	118.02(3) ¹	205.18(3)	0.297
	2.333	6	max	0.024	0.028	0.182	0.206	0.044	118.02(3) ¹	233.11(3)	0.207

Steel - Resistance of Cross Sections

Utilisation Level

Beam	x[m]	SNo	LC	$\sigma-n,c$	$\sigma-n,t$	$\sigma-x$	$\sigma+x$	τ	c/t	c/t-lim	$\sigma-v$
60038	2.917	6	max	0.024	0.028	0.114	0.110	0.086	118.02(3) ¹	259.60(3)	0.119
	3.500	6	max	0.024	0.028	0.523	0.538	0.128	118.02(3) ¹	157.36(3)	0.540
60039	0.000	6	max	0.015	0.015	0.636	0.652	0.265	118.02(3) ¹	171.51(3)	0.661
	0.600	6	max	0.015	0.015	0.404	0.373	0.217	118.02(3) ¹	205.50(3)	0.423
	1.200	6	max	0.015	0.015	0.652	0.615	0.169	118.02(3) ¹	227.39(3)	0.663
	1.800	6	max	0.015	0.015	0.744	0.710	0.155	118.02(3) ¹	218.02(3)	0.759
	2.400	6	max	0.015	0.015	0.555	0.521	0.224	118.02(3) ¹	254.45(3)	0.584
	3.000	6	max	0.015	0.015	0.231	0.206	0.292	118.02(3) ¹	298.52(3)	0.292
	3.600	6	max	0.015	0.015	0.712	0.670	0.222	118.02(3) ¹	140.24(3)	0.719
60040	0.000	6	max	0.022	0.024	0.544	0.497	0.125	118.02(3) ¹	156.21(3)	0.545
	0.583	6	max	0.022	0.024	0.131	0.087	0.084	118.02(3) ¹	259.12(3)	0.134
	1.167	6	max	0.022	0.024	0.183	0.231	0.044	118.02(3) ¹	245.76(3)	0.231
	1.750	6	max	0.022	0.024	0.266	0.313	0.014	118.02(3) ¹	212.42(3)	0.313
	2.333	6	max	0.022	0.024	0.191	0.229	0.044	118.02(3) ¹	234.01(3)	0.230
	2.917	6	max	0.022	0.024	0.079	0.085	0.084	118.02(3) ¹	283.49(3)	0.089
	3.500	6	max	0.022	0.024	0.467	0.494	0.125	118.02(3) ¹	165.88(3)	0.495
60041	0.000	6	max	0.013	0.015	0.628	0.639	0.162	118.02(3)	150.21(3)	0.642
	0.586	6	max	0.013	0.015	0.149	0.169	0.120	118.02(3) ¹	305.74(3)	0.170
	1.171	6	max	0.013	0.015	0.294	0.325	0.084	118.02(3) ¹	210.78(3)	0.327
	1.757	6	max	0.013	0.015	0.503	0.535	0.056	118.02(3) ¹	168.02(3)	0.535
	2.343	6	max	0.013	0.015	0.544	0.577	0.034	118.02(3)	193.30(3)	0.577
	2.929	6	max	0.013	0.015	0.424	0.452	0.071	118.02(3) ¹	178.71(3)	0.452
	3.514	6	max	0.013	0.015	0.308	0.326	0.110	118.02(3) ¹	262.28(3)	0.327
60042	4.100	6	max	0.013	0.015	0.525	0.517	0.174	118.02(3) ¹	193.70(3)	0.525
	0.000	6	max	0.048	0.047	0.687	0.639	0.256	118.02(3) ¹	145.44(3)	0.693
	0.600	6	max	0.048	0.047	0.444	0.347	0.208	118.02(3) ¹	167.62(3)	0.457
	1.200	6	max	0.048	0.047	0.684	0.580	0.160	118.02(3) ¹	131.44(3)	0.692
	1.800	6	max	0.048	0.047	0.781	0.681	0.147	118.02(3) ¹	125.39(3)	0.794
	2.400	6	max	0.048	0.047	0.596	0.495	0.215	118.02(3) ¹	138.73(3)	0.620
	3.000	6	max	0.048	0.047	0.251	0.171	0.283	118.02(3) ¹	194.56(3)	0.292
60043	3.600	6	max	0.048	0.047	0.736	0.628	0.221	118.02(3) ¹	127.50(3)	0.740
	0.000	6	max	0.045	0.029	0.478	0.458	0.126	118.02(3) ¹	195.22(3)	0.479
	0.583	6	max	0.045	0.029	0.090	0.064	0.086	118.02(3) ¹	204.53(3)	0.100
	1.167	6	max	0.045	0.029	0.224	0.188	0.046	118.02(3) ¹	209.41(3)	0.224
	1.750	6	max	0.045	0.029	0.290	0.262	0.014	118.02(3) ¹	207.46(3)	0.290
	2.333	6	max	0.045	0.029	0.197	0.170	0.044	118.02(3) ¹	210.43(3)	0.199
	2.917	6	max	0.045	0.029	0.141	0.085	0.086	118.02(3) ¹	209.69(3)	0.144
60044	3.500	6	max	0.045	0.029	0.554	0.511	0.128	118.02(3) ¹	187.36(3)	0.556
	0.000	6	max	0.037	0.042	0.676	0.671	0.191	118.02(3) ¹	135.81(3)	0.685
	0.586	6	max	0.037	0.042	0.206	0.210	0.163	118.02(3) ¹	214.04(3)	0.214
	1.171	6	max	0.037	0.042	0.309	0.351	0.135	118.02(3) ¹	180.23(3)	0.353
	1.757	6	max	0.037	0.042	0.519	0.562	0.107	118.02(3) ¹	151.42(3)	0.562
	2.343	6	max	0.037	0.042	0.569	0.605	0.084	118.02(3) ¹	146.17(3)	0.605
	2.929	6	max	0.037	0.042	0.457	0.481	0.122	118.02(3) ¹	157.85(3)	0.482
60045	3.514	6	max	0.037	0.042	0.300	0.336	0.162	118.02(3) ¹	201.75(3)	0.336
	4.100	6	max	0.037	0.042	0.468	0.517	0.171	118.02(3) ¹	170.62(3)	0.517
	0.000	6	max	0.028	0.028	0.496	0.498	0.121	118.02(3) ¹	158.44(3)	0.500
	0.583	6	max	0.028	0.028	0.106	0.086	0.079	118.02(3) ¹	251.43(3)	0.106
	1.167	6	max	0.028	0.028	0.189	0.213	0.043	118.02(3) ¹	223.23(3)	0.213
	1.750	6	max	0.028	0.028	0.262	0.286	0.026	118.02(3) ¹	203.61(3)	0.286
	2.333	6	max	0.028	0.028	0.177	0.193	0.066	118.02(3) ¹	230.12(3)	0.195
60046	2.917	6	max	0.028	0.028	0.125	0.124	0.105	118.02(3) ¹	247.06(3)	0.139
	3.500	6	max	0.028	0.028	0.532	0.554	0.168	118.02(3) ¹	154.99(3)	0.556
	0.000	6	max	0.021	0.025	0.531	0.541	0.128	118.02(3) ¹	157.90(3)	0.543
	0.583	6	max	0.021	0.025	0.115	0.111	0.087	118.02(3) ¹	269.77(3)	0.122
	1.167	6	max	0.021	0.025	0.182	0.200	0.059	118.02(3) ¹	240.18(3)	0.201
60046	1.750	6	max	0.021	0.025	0.276	0.293	0.031	118.02(3) ¹	208.50(3)	0.293
	2.333	6	max	0.021	0.025	0.213	0.219	0.066	118.02(3) ¹	229.02(3)	0.220

Steel - Resistance of Cross Sections

Utilisation Level

Beam	x[m]	SNo	LC	$\sigma-n,c$	$\sigma-n,t$	$\sigma-x$	$\sigma+x$	τ	c/t	c/t-lim	$\sigma-v$
60046	2.917	6	max	0.021	0.025	0.054	0.076	0.105	118.02(3) ¹	304.93(3)	0.107
	3.500	6	max	0.021	0.025	0.440	0.486	0.143	118.02(3) ¹	171.10(3)	0.487
60047	0.000	6	max	0.014	0.022	0.523	0.534	0.125	118.02(3) ¹	162.46(3)	0.536
	0.583	6	max	0.014	0.022	0.115	0.113	0.083	118.02(3) ¹	292.16(3)	0.120
	1.167	6	max	0.014	0.022	0.161	0.183	0.055	118.02(3) ¹	265.90(3)	0.184
	1.750	6	max	0.014	0.022	0.248	0.266	0.029	118.02(3) ¹	227.11(3)	0.266
	2.333	6	max	0.014	0.022	0.176	0.183	0.067	118.02(3) ¹	259.10(3)	0.184
	2.917	6	max	0.014	0.022	0.086	0.113	0.107	118.02(3) ¹	322.81(3)	0.118
	3.500	6	max	0.014	0.022	0.485	0.534	0.147	118.02(3) ¹	170.13(3)	0.536
60048	0.000	6	max	0.099	0.117	0.622	0.625	0.125	118.02(3) ¹	119.69(3)	0.627
	0.583	6	max	0.099	0.117	0.212	0.205	0.088	118.02(3) ¹	140.46(3)	0.215
	1.167	6	max	0.099	0.117	0.236	0.280	0.060	118.02(3) ¹	140.82(3)	0.281
	1.750	6	max	0.099	0.117	0.325	0.364	0.033	118.02(3) ¹	137.26(3)	0.364
	2.333	6	max	0.099	0.117	0.255	0.280	0.070	118.02(3) ¹	140.43(3)	0.281
	2.917	6	max	0.099	0.117	0.172	0.206	0.110	118.02(3) ¹	140.85(3)	0.208
	3.500	6	max	0.099	0.117	0.565	0.627	0.144	118.02(3) ¹	123.07(3)	0.628
60049	0.000	6	max	0.031	0.025	0.501	0.491	0.123	118.02(3) ¹	155.81(3)	0.502
	0.583	6	max	0.031	0.025	0.110	0.077	0.081	118.02(3) ¹	242.15(3)	0.110
	1.167	6	max	0.031	0.025	0.199	0.218	0.047	118.02(3) ¹	214.70(3)	0.219
	1.750	6	max	0.031	0.025	0.276	0.294	0.026	118.02(3) ¹	195.92(3)	0.294
	2.333	6	max	0.031	0.025	0.195	0.203	0.066	118.02(3) ¹	217.82(3)	0.204
	2.917	6	max	0.031	0.025	0.109	0.107	0.105	118.02(3) ¹	244.41(3)	0.125
	3.500	6	max	0.031	0.025	0.512	0.536	0.154	118.02(3) ¹	155.52(3)	0.537
60050	0.000	6	max	0.102	0.094	0.575	0.627	0.126	118.02(3) ¹	122.63(3)	0.630
	0.583	6	max	0.102	0.094	0.156	0.215	0.086	118.02(3) ¹	138.03(3)	0.219
	1.167	6	max	0.102	0.094	0.301	0.230	0.046	118.02(3) ¹	135.73(3)	0.302
	1.750	6	max	0.102	0.094	0.387	0.324	0.006	118.02(3) ¹	131.41(3)	0.387
	2.333	6	max	0.102	0.094	0.304	0.259	0.041	118.02(3) ¹	135.71(3)	0.304
	2.917	6	max	0.102	0.094	0.169	0.157	0.083	118.02(3) ¹	137.93(3)	0.169
	3.500	6	max	0.102	0.094	0.567	0.540	0.124	118.02(3) ¹	123.14(3)	0.570
60051	0.000	6	max	0.081	0.138	0.494	0.798	0.254	118.02(3) ¹	149.37(3)	0.798
	0.600	6	max	0.081	0.138	0.309	0.516	0.206	118.02(3) ¹	156.93(3)	0.518
	1.200	6	max	0.081	0.138	0.485	0.755	0.158	118.02(3) ¹	138.00(3)	0.755
	1.800	6	max	0.081	0.138	0.577	0.849	0.137	118.02(3) ¹	133.79(3)	0.849
	2.400	6	max	0.081	0.138	0.388	0.660	0.206	118.02(3) ¹	142.86(3)	0.662
	3.000	6	max	0.081	0.138	0.183	0.345	0.274	118.02(3) ¹	149.25(3)	0.372
	3.600	6	max	0.081	0.138	0.570	0.835	0.222	118.02(3) ¹	131.08(3)	0.842
60052	0.000	6	max	0.044	0.029	0.543	0.533	0.126	118.02(3) ¹	145.54(3)	0.544
	0.583	6	max	0.044	0.029	0.140	0.113	0.087	118.02(3) ¹	206.81(3)	0.146
	1.167	6	max	0.044	0.029	0.190	0.191	0.047	118.02(3) ¹	198.74(3)	0.192
	1.750	6	max	0.044	0.029	0.271	0.274	0.007	118.02(3) ¹	183.56(3)	0.274
	2.333	6	max	0.044	0.029	0.194	0.190	0.042	118.02(3) ¹	197.65(3)	0.195
	2.917	6	max	0.044	0.029	0.132	0.114	0.084	118.02(3) ¹	207.67(3)	0.134
	3.500	6	max	0.044	0.029	0.530	0.535	0.125	118.02(3) ¹	146.61(3)	0.537
60053	0.000	6	max	0.026	0.029	0.514	0.539	0.125	118.02(3) ¹	157.58(3)	0.541
	0.583	6	max	0.026	0.029	0.113	0.117	0.083	118.02(3) ¹	256.06(3)	0.122
	1.167	6	max	0.026	0.029	0.180	0.186	0.041	118.02(3) ¹	232.04(3)	0.187
	1.750	6	max	0.026	0.029	0.259	0.270	0.004	118.02(3) ¹	207.35(3)	0.270
	2.333	6	max	0.026	0.029	0.181	0.188	0.044	118.02(3) ¹	231.94(3)	0.189
	2.917	6	max	0.026	0.029	0.111	0.114	0.084	118.02(3) ¹	257.37(3)	0.119
	3.500	6	max	0.026	0.029	0.511	0.535	0.126	118.02(3) ¹	158.03(3)	0.536
60054	0.000	6	max	0.004	0.027	0.511	0.529	0.129	118.02(3)	173.32(3)	0.531
	0.583	6	max	0.004	0.027	0.089	0.097	0.087	118.02(3) ¹	385.64(3)	0.103
	1.167	6	max	0.004	0.027	0.170	0.180	0.045	118.02(3)	295.06(3)	0.181
	1.750	6	max	0.004	0.027	0.262	0.274	0.009	118.02(3)	241.82(3)	0.274
	2.333	6	max	0.004	0.027	0.189	0.202	0.043	118.02(3)	279.62(3)	0.203
	2.917	6	max	0.004	0.027	0.053	0.059	0.083	118.02(3) ¹	488.98(3)	0.083
	3.500	6	max	0.004	0.027	0.443	0.462	0.122	118.02(3)	183.64(3)	0.464

Steel - Resistance of Cross Sections

Utilisation Level

Beam	x[m]	SNo	LC	$\sigma-n,c$	$\sigma-n,t$	$\sigma-x$	$\sigma+x$	τ	c/t	c/t-lim	$\sigma-v$
60055	0.000	6	max	0.097	0.084	0.556	0.522	0.120	118.02(3) ¹	125.61(3)	0.559
	0.583	6	max	0.097	0.084	0.158	0.142	0.078	118.02(3) ¹	142.39(3)	0.159
	1.167	6	max	0.097	0.084	0.279	0.252	0.036	118.02(3) ¹	139.79(3)	0.279
	1.750	6	max	0.097	0.084	0.350	0.315	0.010	118.02(3) ¹	135.81(3)	0.350
	2.333	6	max	0.097	0.084	0.252	0.219	0.050	118.02(3) ¹	140.60(3)	0.253
	2.917	6	max	0.097	0.084	0.208	0.208	0.090	118.02(3) ¹	142.35(3)	0.213
	3.500	6	max	0.097	0.084	0.639	0.623	0.131	118.02(3) ¹	120.63(3)	0.643
60056	0.000	6	max	0.086	0.059	0.708	0.670	0.161	118.02(3) ¹	120.91(3)	0.712
	0.586	6	max	0.086	0.059	0.238	0.190	0.119	118.02(3) ¹	153.38(3)	0.239
	1.171	6	max	0.086	0.059	0.386	0.330	0.077	118.02(3) ¹	140.12(3)	0.387
	1.757	6	max	0.086	0.059	0.596	0.533	0.042	118.02(3) ¹	126.23(3)	0.596
	2.343	6	max	0.086	0.059	0.636	0.574	0.022	118.02(3) ¹	124.08(3)	0.636
	2.929	6	max	0.086	0.059	0.507	0.455	0.059	118.02(3) ¹	132.50(3)	0.507
	3.514	6	max	0.086	0.059	0.398	0.356	0.099	118.02(3) ¹	154.76(3)	0.398
60057	0.000	6	max	0.015	0.018	0.494	0.534	0.146	118.02(3) ¹	168.24(3)	0.536
	0.583	6	max	0.015	0.018	0.088	0.104	0.106	118.02(3) ¹	317.20(3)	0.111
	1.167	6	max	0.015	0.018	0.188	0.191	0.066	118.02(3) ¹	252.13(3)	0.192
	1.750	6	max	0.015	0.018	0.268	0.283	0.027	118.02(3) ¹	219.13(3)	0.283
	2.333	6	max	0.015	0.018	0.190	0.208	0.049	118.02(3) ¹	248.57(3)	0.209
	2.917	6	max	0.015	0.018	0.091	0.071	0.081	118.02(3) ¹	313.48(3)	0.091
	3.500	6	max	0.015	0.018	0.480	0.484	0.122	118.02(3) ¹	167.86(3)	0.486
60058	0.000	6	max	0.004	0.005	0.509	0.505	0.144	118.02(3)	383.49(3)	0.512
	0.583	6	max	0.004	0.005	0.092	0.084	0.104	118.02(3) ¹	382.11(3)	0.105
	1.167	6	max	0.004	0.005	0.168	0.169	0.065	118.02(3)	288.30(3)	0.170
	1.750	6	max	0.004	0.005	0.252	0.242	0.026	118.02(3)	525.75(3)	0.252
	2.333	6	max	0.004	0.005	0.168	0.158	0.053	118.02(3)	288.82(3)	0.168
	2.917	6	max	0.004	0.005	0.096	0.104	0.084	118.02(3) ¹	378.25(3)	0.109
	3.500	6	max	0.004	0.005	0.511	0.507	0.126	118.02(3)	381.00(3)	0.515
60059	0.000	6	max	0.022	0.037	0.501	0.544	0.152	118.02(3) ¹	161.98(3)	0.546
	0.583	6	max	0.022	0.037	0.105	0.123	0.112	118.02(3) ¹	277.67(3)	0.128
	1.167	6	max	0.022	0.037	0.177	0.202	0.072	118.02(3) ¹	243.34(3)	0.203
	1.750	6	max	0.022	0.037	0.252	0.285	0.033	118.02(3) ¹	215.85(3)	0.285
	2.333	6	max	0.022	0.037	0.167	0.201	0.058	118.02(3) ¹	245.74(3)	0.202
	2.917	6	max	0.022	0.037	0.123	0.125	0.086	118.02(3) ¹	262.29(3)	0.131
	3.500	6	max	0.022	0.037	0.528	0.546	0.125	118.02(3) ¹	157.78(3)	0.548
60060	0.000	6	max	0.039	0.037	0.598	0.548	0.141	118.02(3) ¹	142.76(3)	0.600
	0.583	6	max	0.039	0.037	0.183	0.120	0.102	118.02(3) ¹	207.79(3)	0.190
	1.167	6	max	0.039	0.037	0.155	0.213	0.062	118.02(3) ¹	215.44(3)	0.214
	1.750	6	max	0.039	0.037	0.249	0.304	0.022	118.02(3) ¹	193.40(3)	0.304
	2.333	6	max	0.039	0.037	0.185	0.227	0.040	118.02(3) ¹	206.02(3)	0.228
	2.917	6	max	0.039	0.037	0.121	0.092	0.082	118.02(3) ¹	216.21(3)	0.123
	3.500	6	max	0.039	0.037	0.506	0.506	0.124	118.02(3) ¹	150.65(3)	0.507
60061	0.000	6	max	0.005	0.012	0.458	0.487	0.147	118.02(3)	212.31(3)	0.488
	0.583	6	max	0.005	0.012	0.047	0.071	0.107	118.02(3) ¹	483.66(3)	0.107
	1.167	6	max	0.005	0.012	0.187	0.198	0.068	118.02(3)	328.06(3)	0.199
	1.750	6	max	0.005	0.012	0.254	0.275	0.034	118.02(3)	283.14(3)	0.275
	2.333	6	max	0.005	0.012	0.163	0.186	0.062	118.02(3) ¹	338.11(3)	0.187
	2.917	6	max	0.005	0.012	0.110	0.107	0.090	118.02(3) ¹	442.76(3)	0.119
	3.500	6	max	0.005	0.012	0.528	0.522	0.127	118.02(3)	206.07(3)	0.531
60062	0.000	6	max	0.029	0.039	0.647	0.678	0.223	118.02(3) ¹	142.00(3)	0.681
	0.586	6	max	0.029	0.039	0.124	0.137	0.183	118.02(3) ¹	242.77(3)	0.187
	1.171	6	max	0.029	0.039	0.298	0.327	0.144	118.02(3) ¹	191.85(3)	0.329
	1.757	6	max	0.029	0.039	0.494	0.534	0.104	118.02(3) ¹	158.87(3)	0.535
	2.343	6	max	0.029	0.039	0.532	0.574	0.071	118.02(3) ¹	153.80(3)	0.574
	2.929	6	max	0.029	0.039	0.410	0.446	0.092	118.02(3) ¹	168.87(3)	0.447
	3.514	6	max	0.029	0.039	0.368	0.374	0.120	118.02(3) ¹	227.87(3)	0.374
	4.100	6	max	0.029	0.039	0.575	0.580	0.153	118.02(3) ¹	167.66(3)	0.581

Steel - Resistance of Cross Sections

Utilisation Level

Beam	x[m]	SNo	LC	$\sigma-n,c$	$\sigma-n,t$	$\sigma-x$	$\sigma+x$	τ	c/t	c/t-lim	$\sigma-v$
60063	0.000	6	max	0.033	0.041	0.458	0.504	0.130	118.02(3) ¹	161.15(3)	0.505
	0.583	6	max	0.033	0.041	0.084	0.101	0.090	118.02(3) ¹	241.64(3)	0.106
	1.167	6	max	0.033	0.041	0.199	0.213	0.051	118.02(3) ¹	213.59(3)	0.214
	1.750	6	max	0.033	0.041	0.250	0.277	0.024	118.02(3) ¹	199.33(3)	0.277
	2.333	6	max	0.033	0.041	0.144	0.174	0.052	118.02(3) ¹	229.72(3)	0.176
	2.917	6	max	0.033	0.041	0.192	0.178	0.090	118.02(3) ¹	212.71(3)	0.195
	3.500	6	max	0.033	0.041	0.618	0.618	0.152	118.02(3) ¹	143.06(3)	0.624
60064	0.000	6	max	0.052	0.038	0.674	0.618	0.243	118.02(3) ¹	142.68(3)	0.680
	0.600	6	max	0.052	0.038	0.427	0.322	0.195	118.02(3) ¹	166.12(3)	0.440
	1.200	6	max	0.052	0.038	0.658	0.547	0.147	118.02(3) ¹	131.97(3)	0.665
	1.800	6	max	0.052	0.038	0.744	0.636	0.139	118.02(3) ¹	126.60(3)	0.756
	2.400	6	max	0.052	0.038	0.548	0.440	0.207	118.02(3) ¹	141.24(3)	0.572
	3.000	6	max	0.052	0.038	0.236	0.138	0.275	118.02(3) ¹	184.32(3)	0.280
	3.600	6	max	0.052	0.038	0.811	0.696	0.223	118.02(3) ¹	121.85(3)	0.815
60065	0.000	6	max	0.006	0.005	0.686	0.702	0.162	118.02(3)	250.21(3)	0.704
	0.586	6	max	0.006	0.005	0.154	0.148	0.120	118.02(3) ¹	336.79(3)	0.160
	1.171	6	max	0.006	0.005	0.235	0.246	0.078	118.02(3) ¹	288.65(3)	0.249
	1.757	6	max	0.006	0.005	0.449	0.460	0.037	118.02(3)	310.40(3)	0.460
	2.343	6	max	0.006	0.005	0.493	0.505	0.015	118.02(3)	296.19(3)	0.505
	2.929	6	max	0.006	0.005	0.369	0.383	0.051	118.02(3)	233.91(3)	0.384
	3.514	6	max	0.006	0.005	0.268	0.274	0.091	118.02(3) ¹	387.74(3)	0.274
	4.100	6	max	0.006	0.005	0.498	0.473	0.136	118.02(3) ¹	224.43(3)	0.499
60066	0.000	6	max	0.009	0.009	0.469	0.491	0.124	118.02(3) ¹	205.79(3)	0.493
	0.583	6	max	0.009	0.009	0.064	0.075	0.082	118.02(3) ¹	408.16(3)	0.083
	1.167	6	max	0.009	0.009	0.181	0.189	0.040	118.02(3) ¹	311.13(3)	0.190
	1.750	6	max	0.009	0.009	0.252	0.268	0.004	118.02(3) ¹	271.84(3)	0.268
	2.333	6	max	0.009	0.009	0.165	0.179	0.043	118.02(3) ¹	317.91(3)	0.180
	2.917	6	max	0.009	0.009	0.096	0.094	0.085	118.02(3) ¹	383.89(3)	0.101
	3.500	6	max	0.009	0.009	0.504	0.520	0.127	118.02(3) ¹	200.37(3)	0.522
60067	0.000	6	max	0.015	0.010	0.516	0.520	0.126	118.02(3) ¹	192.29(3)	0.522
	0.583	6	max	0.015	0.010	0.109	0.097	0.084	118.02(3) ¹	327.48(3)	0.112
	1.167	6	max	0.015	0.010	0.162	0.176	0.042	118.02(3) ¹	291.43(3)	0.177
	1.750	6	max	0.015	0.010	0.248	0.261	0.011	118.02(3) ¹	256.13(3)	0.261
	2.333	6	max	0.015	0.010	0.175	0.179	0.047	118.02(3) ¹	288.16(3)	0.180
	2.917	6	max	0.015	0.010	0.082	0.091	0.087	118.02(3) ¹	334.52(3)	0.097
	3.500	6	max	0.015	0.010	0.485	0.510	0.125	118.02(3) ¹	194.90(3)	0.512
60068	0.000	6	max	0.009	0.009	0.503	0.516	0.125	118.02(3) ¹	200.88(3)	0.517
	0.583	6	max	0.009	0.009	0.100	0.094	0.084	118.02(3) ¹	381.24(3)	0.104
	1.167	6	max	0.009	0.009	0.158	0.175	0.042	118.02(3) ¹	320.75(3)	0.176
	1.750	6	max	0.009	0.009	0.243	0.258	0.003	118.02(3) ¹	275.83(3)	0.258
	2.333	6	max	0.009	0.009	0.161	0.175	0.042	118.02(3) ¹	320.38(3)	0.176
	2.917	6	max	0.009	0.009	0.090	0.094	0.083	118.02(3) ¹	381.44(3)	0.100
	3.500	6	max	0.009	0.009	0.493	0.515	0.125	118.02(3) ¹	541.34(3)	0.517
60069	0.000	6	max	0.009	0.008	0.501	0.522	0.127	118.02(3)	200.44(3)	0.523
	0.583	6	max	0.009	0.008	0.093	0.094	0.086	118.02(3) ¹	385.99(3)	0.101
	1.167	6	max	0.009	0.008	0.169	0.180	0.044	118.02(3) ¹	317.08(3)	0.181
	1.750	6	max	0.009	0.008	0.256	0.270	0.006	118.02(3) ¹	270.59(3)	0.270
	2.333	6	max	0.009	0.008	0.183	0.193	0.042	118.02(3) ¹	308.23(3)	0.194
	2.917	6	max	0.009	0.008	0.066	0.068	0.082	118.02(3) ¹	416.76(3)	0.082
	3.500	6	max	0.009	0.008	0.462	0.483	0.124	118.02(3) ¹	207.24(3)	0.485
60070	0.000	6	max	0.009	0.008	0.496	0.516	0.125	118.02(3) ¹	201.17(3)	0.518
	0.583	6	max	0.009	0.008	0.093	0.095	0.083	118.02(3) ¹	383.81(3)	0.101
	1.167	6	max	0.009	0.008	0.161	0.172	0.042	118.02(3) ¹	324.05(3)	0.173
	1.750	6	max	0.009	0.008	0.241	0.255	0.006	118.02(3) ¹	278.16(3)	0.255
	2.333	6	max	0.009	0.008	0.162	0.171	0.046	118.02(3) ¹	324.55(3)	0.173
	2.917	6	max	0.009	0.008	0.092	0.096	0.086	118.02(3) ¹	384.01(3)	0.102
	3.500	6	max	0.009	0.008	0.497	0.518	0.126	118.02(3)	201.19(3)	0.519
60071	0.000	6	max	0.008	0.008	0.613	0.602	0.129	118.02(3)	281.01(3)	0.615

Steel - Resistance of Cross Sections

Utilisation Level

Beam	x[m]	SNo	LC	$\sigma_{-n,c}$	$\sigma_{-n,t}$	σ_{-x}	σ_{+x}	τ	c/t	c/t-lim	$\sigma-v$
60071	0.583	6	max	0.008	0.008	0.186	0.178	0.089	118.02(3) ¹	372.51(3)	0.189
	1.167	6	max	0.008	0.008	0.155	0.170	0.053	118.02(3) ¹	334.17(3)	0.171
	1.750	6	max	0.008	0.008	0.246	0.260	0.025	118.02(3) ¹	279.66(3)	0.260
	2.333	6	max	0.008	0.008	0.168	0.183	0.045	118.02(3) ¹	319.83(3)	0.184
	2.917	6	max	0.008	0.008	0.077	0.079	0.085	118.02(3) ¹	406.51(3)	0.088
	3.500	6	max	0.008	0.008	0.472	0.494	0.122	118.02(3) ¹	205.80(3)	0.495
60072	0.000	6	max	0.008	0.008	0.462	0.482	0.118	118.02(3) ¹	207.71(3)	0.483
	0.583	6	max	0.008	0.008	0.081	0.079	0.076	118.02(3) ¹	404.41(3)	0.085
	1.167	6	max	0.008	0.008	0.157	0.170	0.034	118.02(3) ¹	329.19(3)	0.170
	1.750	6	max	0.008	0.008	0.221	0.234	0.011	118.02(3) ¹	292.89(3)	0.234
	2.333	6	max	0.008	0.008	0.119	0.132	0.050	118.02(3) ¹	370.77(3)	0.134
	2.917	6	max	0.008	0.008	0.157	0.153	0.091	118.02(3) ¹	330.50(3)	0.161
60073	3.500	6	max	0.008	0.008	0.576	0.592	0.133	118.02(3)	268.18(3)	0.594
	0.000	6	max	0.006	0.005	0.576	0.620	0.193	118.02(3) ¹	253.30(3)	0.621
	0.600	6	max	0.006	0.005	0.322	0.319	0.145	118.02(3) ¹	365.48(3)	0.326
	1.200	6	max	0.006	0.005	0.558	0.550	0.097	118.02(3) ¹	247.57(3)	0.558
	1.800	6	max	0.006	0.005	0.641	0.635	0.090	118.02(3)	336.57(3)	0.642
	2.400	6	max	0.006	0.005	0.443	0.438	0.158	118.02(3) ¹	285.63(3)	0.452
60074	3.000	6	max	0.006	0.005	0.130	0.134	0.226	118.02(3) ¹	433.86(3)	0.226
	3.600	6	max	0.006	0.005	0.817	0.805	0.240	118.02(3)	278.85(3)	0.821
	0.000	6	max	0.050	0.031	0.786	0.743	0.156	118.02(3) ¹	125.85(3)	0.789
	0.586	6	max	0.050	0.031	0.254	0.235	0.114	118.02(3) ¹	178.44(3)	0.260
	1.171	6	max	0.050	0.031	0.211	0.182	0.073	118.02(3) ¹	183.91(3)	0.213
	1.757	6	max	0.050	0.031	0.407	0.371	0.033	118.02(3) ¹	156.78(3)	0.407
60075	2.343	6	max	0.050	0.031	0.433	0.398	0.019	118.02(3) ¹	154.09(3)	0.433
	2.929	6	max	0.050	0.031	0.289	0.264	0.054	118.02(3) ¹	173.32(3)	0.289
	3.514	6	max	0.050	0.031	0.212	0.175	0.096	118.02(3) ¹	201.89(3)	0.213
	4.100	6	max	0.050	0.031	0.599	0.542	0.140	118.02(3) ¹	140.90(3)	0.602
	0.000	6	max	0.011	0.008	0.508	0.499	0.125	118.02(3) ¹	268.87(3)	0.511
	0.583	6	max	0.011	0.008	0.091	0.098	0.083	118.02(3) ¹	386.48(3)	0.103
60076	1.167	6	max	0.011	0.008	0.181	0.166	0.041	118.02(3) ¹	322.69(3)	0.181
	1.750	6	max	0.011	0.008	0.265	0.250	0.009	118.02(3) ¹	484.94(3)	0.265
	2.333	6	max	0.011	0.008	0.180	0.174	0.048	118.02(3) ¹	493.94(3)	0.181
	2.917	6	max	0.011	0.008	0.092	0.082	0.088	118.02(3) ¹	399.85(3)	0.100
	3.500	6	max	0.011	0.008	0.510	0.495	0.129	118.02(3) ¹	276.85(3)	0.513
	0.000	6	max	0.033	0.026	0.524	0.507	0.123	118.02(3) ¹	154.82(3)	0.527
60077	0.583	6	max	0.033	0.026	0.112	0.112	0.081	118.02(3) ¹	236.10(3)	0.118
	1.167	6	max	0.033	0.026	0.201	0.180	0.039	118.02(3) ¹	208.70(3)	0.201
	1.750	6	max	0.033	0.026	0.280	0.258	0.007	118.02(3) ¹	189.94(3)	0.280
	2.333	6	max	0.033	0.026	0.190	0.176	0.047	118.02(3) ¹	211.27(3)	0.191
	2.917	6	max	0.033	0.026	0.135	0.122	0.086	118.02(3) ¹	228.60(3)	0.141
	3.500	6	max	0.033	0.026	0.558	0.521	0.130	118.02(3) ¹	150.68(3)	0.561
60078	0.000	6	max	0.009	0.008	0.508	0.499	0.126	118.02(3) ¹	429.96(3)	0.511
	0.583	6	max	0.009	0.008	0.090	0.098	0.084	118.02(3) ¹	458.13(3)	0.104
	1.167	6	max	0.009	0.008	0.176	0.167	0.042	118.02(3) ¹	439.71(3)	0.176
	1.750	6	max	0.009	0.008	0.260	0.251	0.006	118.02(3) ¹	457.33(3)	0.260
	2.333	6	max	0.009	0.008	0.176	0.175	0.043	118.02(3) ¹	456.41(3)	0.177
	2.917	6	max	0.009	0.008	0.089	0.081	0.083	118.02(3) ¹	445.41(3)	0.098
60079	3.500	6	max	0.009	0.008	0.506	0.498	0.125	118.02(3) ¹	451.91(3)	0.510
	0.000	6	max	0.036	0.045	0.542	0.577	0.126	118.02(3) ¹	151.11(3)	0.580
	0.583	6	max	0.036	0.045	0.123	0.167	0.084	118.02(3) ¹	225.47(3)	0.172
	1.167	6	max	0.036	0.045	0.204	0.183	0.045	118.02(3) ¹	203.46(3)	0.204
	1.750	6	max	0.036	0.045	0.289	0.275	0.006	118.02(3) ¹	184.96(3)	0.289
	2.333	6	max	0.036	0.045	0.207	0.208	0.041	118.02(3) ¹	202.86(3)	0.208
60079	2.917	6	max	0.036	0.045	0.116	0.114	0.083	118.02(3) ¹	227.26(3)	0.123
	3.500	6	max	0.036	0.045	0.532	0.497	0.124	118.02(3) ¹	152.23(3)	0.536
	0.000	6	max	0.041	0.083	0.617	0.769	0.193	118.02(3) ¹	161.21(3)	0.775
60079	0.600	6	max	0.041	0.083	0.152	0.264	0.125	118.02(3) ¹	216.44(3)	0.265

Steel - Resistance of Cross Sections

Utilisation Level

Beam	x[m]	SNo	LC	$\sigma-n,c$	$\sigma-n,t$	$\sigma-x$	$\sigma+x$	τ	c/t	c/t-lim	$\sigma-v$
60079	1.200	6	max	0.041	0.083	0.291	0.456	0.060	118.02(3) ¹	183.46(3)	0.456
	1.800	6	max	0.041	0.083	0.399	0.567	0.038	118.02(3) ¹	172.54(3)	0.567
	2.400	6	max	0.041	0.083	0.226	0.394	0.106	118.02(3) ¹	193.27(3)	0.395
	3.000	6	max	0.041	0.083	0.153	0.236	0.175	118.02(3) ¹	208.99(3)	0.256
	3.600	6	max	0.041	0.083	0.811	0.971	0.262	118.02(3) ¹	140.77(3)	0.983
60080	0.000	6	max	0.015	0.011	0.515	0.521	0.126	118.02(3) ¹	491.14(3)	0.523
	0.583	6	max	0.015	0.011	0.109	0.099	0.084	118.02(3) ¹	482.87(3)	0.112
	1.167	6	max	0.015	0.011	0.162	0.175	0.042	118.02(3) ¹	501.38(3)	0.177
	1.750	6	max	0.015	0.011	0.247	0.259	0.012	118.02(3) ¹	503.12(3)	0.259
	2.333	6	max	0.015	0.011	0.172	0.177	0.049	118.02(3) ¹	496.26(3)	0.178
60081	2.917	6	max	0.015	0.011	0.087	0.097	0.089	118.02(3) ¹	502.45(3)	0.103
	3.500	6	max	0.015	0.011	0.490	0.518	0.126	118.02(3) ¹	474.71(3)	0.519
	0.000	6	max	0.005	0.005	0.499	0.494	0.125	118.02(3)	353.93(3)	0.502
	0.583	6	max	0.005	0.005	0.083	0.074	0.083	118.02(3) ¹	391.40(3)	0.092
	1.167	6	max	0.005	0.005	0.177	0.178	0.041	118.02(3)	279.19(3)	0.178
60082	1.750	6	max	0.005	0.005	0.260	0.254	0.004	118.02(3)	571.05(3)	0.260
	2.333	6	max	0.005	0.005	0.174	0.170	0.042	118.02(3) ¹	281.18(3)	0.175
	2.917	6	max	0.005	0.005	0.089	0.087	0.084	118.02(3) ¹	379.42(3)	0.098
	3.500	6	max	0.005	0.005	0.508	0.503	0.126	118.02(3)	350.10(3)	0.512
	0.000	6	max	0.004	0.005	0.506	0.503	0.125	118.02(3)	295.17(3)	0.510
60083	0.583	6	max	0.004	0.005	0.089	0.084	0.084	118.02(3) ¹	635.12(3)	0.097
	1.167	6	max	0.004	0.005	0.172	0.165	0.044	118.02(3)	477.49(3)	0.172
	1.750	6	max	0.004	0.005	0.256	0.246	0.005	118.02(3)	398.75(3)	0.256
	2.333	6	max	0.004	0.005	0.172	0.165	0.042	118.02(3) ¹	802.41(3)	0.173
	2.917	6	max	0.004	0.005	0.087	0.082	0.083	118.02(3) ¹	999.99(3)	0.096
60084	3.500	6	max	0.004	0.005	0.504	0.501	0.125	118.02(3)	295.07(3)	0.508
	0.000	6	max	0.003	0.004	0.503	0.502	0.125	118.02(3)	420.11(3)	0.507
	0.583	6	max	0.003	0.004	0.087	0.081	0.083	118.02(3)	887.64(3)	0.095
	1.167	6	max	0.003	0.004	0.171	0.167	0.043	118.02(3)	685.82(3)	0.172
	1.750	6	max	0.003	0.004	0.255	0.246	0.003	118.02(3)	570.52(3)	0.255
60085	2.333	6	max	0.003	0.004	0.170	0.164	0.042	118.02(3)	676.39(3)	0.171
	2.917	6	max	0.003	0.004	0.089	0.085	0.084	118.02(3) ¹	908.70(3)	0.097
	3.500	6	max	0.003	0.004	0.507	0.505	0.126	118.02(3)	423.60(3)	0.510
	0.000	6	max	0.005	0.005	0.510	0.505	0.126	118.02(3)	291.26(3)	0.514
	0.583	6	max	0.005	0.005	0.090	0.083	0.085	118.02(3) ¹	380.73(3)	0.098
60086	1.167	6	max	0.005	0.005	0.175	0.169	0.043	118.02(3) ¹	471.58(3)	0.175
	1.750	6	max	0.005	0.005	0.262	0.251	0.003	118.02(3)	393.08(3)	0.262
	2.333	6	max	0.005	0.005	0.180	0.173	0.041	118.02(3)	462.01(3)	0.181
	2.917	6	max	0.005	0.005	0.078	0.074	0.083	118.02(3) ¹	404.43(3)	0.087
	3.500	6	max	0.005	0.005	0.493	0.488	0.124	118.02(3)	298.11(3)	0.496
60087	0.000	6	max	0.005	0.003	0.485	0.481	0.120	118.02(3)	297.65(3)	0.489
	0.583	6	max	0.005	0.003	0.081	0.074	0.079	118.02(3) ¹	617.63(3)	0.089
	1.167	6	max	0.005	0.003	0.167	0.161	0.037	118.02(3) ¹	474.99(3)	0.167
	1.750	6	max	0.005	0.003	0.238	0.229	0.006	118.02(3)	406.22(3)	0.238
	2.333	6	max	0.005	0.003	0.140	0.136	0.047	118.02(3) ¹	495.92(3)	0.141
60088	2.917	6	max	0.005	0.003	0.136	0.128	0.088	118.02(3) ¹	508.69(3)	0.143
	3.500	6	max	0.005	0.003	0.567	0.560	0.130	118.02(3)	275.60(3)	0.571
	0.000	6	max	0.006	0.000	0.726	0.723	0.158	118.02(3)	253.52(3)	0.730
	0.586	6	max	0.006	0.000	0.191	0.185	0.116	118.02(3) ¹	422.48(3)	0.199
	1.171	6	max	0.006	0.000	0.184	0.176	0.074	118.02(3) ¹	427.16(3)	0.186
60089	1.757	6	max	0.006	0.000	0.383	0.374	0.032	118.02(3) ¹	330.02(3)	0.384
	2.343	6	max	0.006	0.000	0.412	0.404	0.014	118.02(3) ¹	322.68(3)	0.412
	2.929	6	max	0.006	0.000	0.272	0.266	0.053	118.02(3) ¹	385.82(3)	0.272
	3.514	6	max	0.006	0.000	0.179	0.173	0.094	118.02(3) ¹	614.35(3)	0.179
	4.100	6	max	0.006	0.000	0.517	0.519	0.136	118.02(3) ¹	287.51(3)	0.521
60090	0.000	6	max	0.005	0.007	0.563	0.574	0.127	118.02(3)	371.61(3)	0.577
	0.583	6	max	0.005	0.007	0.143	0.157	0.087	118.02(3) ¹	349.48(3)	0.163
	1.167	6	max	0.005	0.007	0.161	0.149	0.047	118.02(3) ¹	290.80(3)	0.161

Steel - Resistance of Cross Sections

Utilisation Level

Beam	x[m]	SNo	LC	$\sigma_{-n,c}$	$\sigma_{-n,t}$	σ_{-x}	σ_{+x}	τ	c/t	c/t-lim	σ_{-v}
60087	1.750	6	max	0.005	0.007	0.250	0.237	0.019	118.02(3)	479.70(3)	0.250
	2.333	6	max	0.005	0.007	0.171	0.160	0.044	118.02(3) ¹	283.59(3)	0.171
	2.917	6	max	0.005	0.007	0.086	0.077	0.084	118.02(3) ¹	386.14(3)	0.094
	3.500	6	max	0.005	0.007	0.498	0.493	0.123	118.02(3)	384.76(3)	0.501
60088	0.000	6	max	0.006	0.013	0.632	0.644	0.206	118.02(3) ¹	322.50(3)	0.652
	0.600	6	max	0.006	0.013	0.144	0.172	0.138	118.02(3) ¹	549.63(3)	0.174
	1.200	6	max	0.006	0.013	0.406	0.429	0.069	118.02(3) ¹	383.97(3)	0.430
	1.800	6	max	0.006	0.013	0.510	0.535	0.025	118.02(3) ¹	352.69(3)	0.535
	2.400	6	max	0.006	0.013	0.332	0.357	0.081	118.02(3) ¹	413.32(3)	0.359
	3.000	6	max	0.006	0.013	0.110	0.133	0.150	118.02(3) ¹	491.73(3)	0.152
	3.600	6	max	0.006	0.013	0.858	0.874	0.218	118.02(3)	424.90(3)	0.881
70001	0.000	7	max	0.035	0.017	0.145	0.116	0.022	20.03(1)	333.54(3)	0.145
	0.600	7	max	0.035	0.017	0.108	0.097	0.021	20.03(1)	327.84(3)	0.108
	1.200	7	max	0.035	0.017	0.078	0.077	0.020	20.03(1)	388.71(3)	0.079
	1.800	7	max	0.035	0.017	0.053	0.052	0.021	20.03(1)	458.90(3)	0.054
	2.400	7	max	0.035	0.017	0.048	0.023	0.022	20.03(1)	656.72(3)	0.050
	3.000	7	max	0.035	0.017	0.059	0.046	0.023	20.03(1)	951.21(3)	0.060
	3.600	7	max	0.035	0.017	0.069	0.086	0.024	20.03(1)	243.97(3)	0.086
70002	0.000	7	max	0.008	0.011	0.025	0.032	0.008	20.03(1)	463.32(3)	0.032
	0.583	7	max	0.008	0.011	0.013	0.018	0.007	20.03(1)	587.86(3)	0.018
	1.167	7	max	0.008	0.011	0.018	0.018	0.006	20.03(1)	454.99(3)	0.018
	1.750	7	max	0.008	0.011	0.018	0.017	0.005	20.03(1)	434.34(3)	0.019
	2.333	7	max	0.008	0.011	0.015	0.012	0.006	20.03(1)	598.09(3)	0.015
	2.917	7	max	0.008	0.011	0.011	0.019	0.007	20.03(1)	549.48(3)	0.020
	3.500	7	max	0.008	0.011	0.026	0.033	0.008	20.03(1)	289.80(3)	0.033
70003	0.000	7	max	0.007	0.008	0.027	0.016	0.004	20.03(1)	351.02(3)	0.027
	0.583	7	max	0.007	0.008	0.012	0.013	0.003	20.03(1)	979.81(3)	0.013
	1.167	7	max	0.007	0.008	0.013	0.016	0.002	20.03(1)	464.22(3)	0.016
	1.750	7	max	0.007	0.008	0.015	0.016	0.002	20.03(1)	419.29(3)	0.016
	2.333	7	max	0.007	0.008	0.013	0.011	0.003	20.03(1)	523.80(3)	0.013
	2.917	7	max	0.007	0.008	0.011	0.015	0.004	20.03(1)	563.48(3)	0.015
	3.500	7	max	0.007	0.008	0.027	0.028	0.005	20.03(1)	297.64(3)	0.028
70004	0.000	7	max	0.011	0.013	0.015	0.031	0.007	20.03(1)	491.83(3)	0.032
	0.583	7	max	0.011	0.013	0.015	0.018	0.006	20.03(1)	408.99(3)	0.018
	1.167	7	max	0.011	0.013	0.018	0.018	0.005	20.03(1)	722.94(3)	0.018
	1.750	7	max	0.011	0.013	0.017	0.021	0.005	20.03(1)	999.99(3)	0.021
	2.333	7	max	0.011	0.013	0.013	0.019	0.006	20.03(1)	758.49(3)	0.019
	2.917	7	max	0.011	0.013	0.020	0.013	0.007	20.03(1)	999.99(3)	0.020
	3.500	7	max	0.011	0.013	0.035	0.026	0.008	20.03(1)	538.94(3)	0.035
70005	0.000	7	max	0.006	0.007	0.024	0.020	0.004	20.03(1)	294.54(3)	0.024
	0.583	7	max	0.006	0.007	0.010	0.012	0.003	20.03(1)	536.48(3)	0.012
	1.167	7	max	0.006	0.007	0.009	0.016	0.002	20.03(1)	531.96(3)	0.016
	1.750	7	max	0.006	0.007	0.013	0.015	0.001	20.03(1)	427.97(3)	0.015
	2.333	7	max	0.006	0.007	0.010	0.012	0.002	20.03(1)	480.98(3)	0.012
	2.917	7	max	0.006	0.007	0.009	0.013	0.003	20.03(1)	732.00(3)	0.013
	3.500	7	max	0.006	0.007	0.022	0.028	0.004	20.03(1)	331.13(3)	0.028
70006	0.000	7	max	0.006	0.007	0.020	0.030	0.004	20.03(1)	302.82(3)	0.030
	0.583	7	max	0.006	0.007	0.007	0.014	0.003	20.03(1)	595.41(3)	0.015
	1.167	7	max	0.006	0.007	0.012	0.011	0.002	20.03(1)	527.21(3)	0.012
	1.750	7	max	0.006	0.007	0.014	0.014	0.001	20.03(1)	424.08(3)	0.014
	2.333	7	max	0.006	0.007	0.010	0.016	0.002	20.03(1)	473.73(3)	0.016
	2.917	7	max	0.006	0.007	0.011	0.012	0.003	20.03(1)	997.66(3)	0.012
70007	3.500	7	max	0.006	0.007	0.026	0.023	0.004	20.03(1)	349.52(3)	0.026
	0.000	7	max	0.007	0.010	0.026	0.031	0.006	20.03(1)	283.07(3)	0.031
	0.583	7	max	0.007	0.010	0.011	0.018	0.005	20.03(1)	528.05(3)	0.018
	1.167	7	max	0.007	0.010	0.013	0.011	0.004	20.03(1)	630.96(3)	0.013
	1.750	7	max	0.007	0.010	0.018	0.016	0.003	20.03(1)	434.06(3)	0.018
	2.333	7	max	0.007	0.010	0.018	0.016	0.004	20.03(1)	442.99(3)	0.018

Steel - Resistance of Cross Sections

Utilisation Level

Beam	x[m]	SNo	LC	σ -n,c	σ -n,t	σ -x	σ +x	τ	c/t	c/t-lim	σ -v
70007	2.917	7	max	0.007	0.010	0.013	0.020	0.005	20.03(1)	696.70(3)	0.020
	3.500	7	max	0.007	0.010	0.025	0.036	0.006	20.03(1)	516.55(3)	0.036
70008	0.000	7	max	0.008	0.019	0.063	0.085	0.023	20.03(1)	234.79(3)	0.085
	0.586	7	max	0.008	0.019	0.027	0.049	0.022	20.03(1)	633.52(3)	0.049
	1.171	7	max	0.008	0.019	0.018	0.023	0.021	20.03(1)	930.32(3)	0.029
	1.757	7	max	0.008	0.019	0.029	0.040	0.020	20.03(1)	339.06(3)	0.040
	2.343	7	max	0.008	0.019	0.043	0.062	0.020	20.03(1)	534.66(3)	0.062
	2.929	7	max	0.008	0.019	0.061	0.079	0.020	20.03(1)	392.72(3)	0.079
	3.514	7	max	0.008	0.019	0.076	0.091	0.021	20.03(1)	389.02(3)	0.091
	4.100	7	max	0.008	0.019	0.087	0.100	0.022	20.03(1)	499.94(3)	0.100
70009	0.000	7	max	0.004	0.005	0.085	0.095	0.043	20.03(1)	373.59(3)	0.096
	0.600	7	max	0.004	0.005	0.057	0.067	0.042	20.03(1)	322.23(3)	0.072
	1.200	7	max	0.004	0.005	0.034	0.044	0.041	20.03(1)	295.08(3)	0.055
	1.800	7	max	0.004	0.005	0.026	0.025	0.040	20.03(1)	311.99(3)	0.046
	2.400	7	max	0.004	0.005	0.015	0.016	0.041	20.03(1)	421.55(3)	0.043
	3.000	7	max	0.004	0.005	0.015	0.022	0.041	20.03(1)	498.31(3)	0.044
	3.600	7	max	0.004	0.005	0.039	0.032	0.042	20.03(1)	260.03(3)	0.055
70010	0.000	7	max	0.011	0.013	0.033	0.027	0.014	20.03(1)	263.65(3)	0.033
	0.583	7	max	0.011	0.013	0.019	0.032	0.013	20.03(1)	397.49(3)	0.032
	1.167	7	max	0.011	0.013	0.014	0.033	0.012	20.03(1)	850.01(3)	0.033
	1.750	7	max	0.011	0.013	0.018	0.030	0.011	20.03(1)	526.20(3)	0.030
	2.333	7	max	0.011	0.013	0.016	0.023	0.011	20.03(1)	999.99(3)	0.023
	2.917	7	max	0.011	0.013	0.015	0.020	0.012	20.03(1)	465.94(3)	0.020
	3.500	7	max	0.011	0.013	0.027	0.036	0.013	20.03(1)	290.75(3)	0.036
70011	0.000	7	max	0.009	0.008	0.024	0.026	0.007	20.03(1)	315.18(3)	0.026
	0.583	7	max	0.009	0.008	0.010	0.012	0.006	20.03(1)	624.44(3)	0.013
	1.167	7	max	0.009	0.008	0.016	0.012	0.005	20.03(1)	447.71(3)	0.016
	1.750	7	max	0.009	0.008	0.017	0.015	0.004	20.03(1)	395.79(3)	0.017
	2.333	7	max	0.009	0.008	0.015	0.013	0.004	20.03(1)	460.47(3)	0.015
	2.917	7	max	0.009	0.008	0.012	0.011	0.005	20.03(1)	562.34(3)	0.012
	3.500	7	max	0.009	0.008	0.026	0.021	0.006	20.03(1)	301.93(3)	0.026
70012	0.000	7	max	0.004	0.006	0.022	0.019	0.004	20.03(1)	324.85(3)	0.022
	0.583	7	max	0.004	0.006	0.008	0.009	0.003	20.03(1)	749.34(3)	0.009
	1.167	7	max	0.004	0.006	0.010	0.011	0.002	20.03(1)	566.24(3)	0.011
	1.750	7	max	0.004	0.006	0.013	0.013	0.001	20.03(1)	461.03(3)	0.013
	2.333	7	max	0.004	0.006	0.010	0.011	0.002	20.03(1)	558.11(3)	0.011
	2.917	7	max	0.004	0.006	0.007	0.008	0.003	20.03(1)	791.82(3)	0.008
	3.500	7	max	0.004	0.006	0.022	0.019	0.004	20.03(1)	329.73(3)	0.022
70013	0.000	7	max	0.003	0.005	0.020	0.019	0.004	20.03(1)	335.00(3)	0.020
	0.583	7	max	0.003	0.005	0.006	0.008	0.003	20.03(1)	869.84(3)	0.008
	1.167	7	max	0.003	0.005	0.009	0.010	0.002	20.03(1)	590.29(3)	0.010
	1.750	7	max	0.003	0.005	0.011	0.012	0.001	20.03(1)	480.47(3)	0.012
	2.333	7	max	0.003	0.005	0.008	0.010	0.002	20.03(1)	605.19(3)	0.010
	2.917	7	max	0.003	0.005	0.006	0.008	0.003	20.03(1)	795.78(3)	0.008
	3.500	7	max	0.003	0.005	0.020	0.019	0.004	20.03(1)	327.89(3)	0.021
70014	0.000	7	max	0.008	0.007	0.026	0.020	0.004	20.03(1)	301.95(3)	0.026
	0.583	7	max	0.008	0.007	0.012	0.010	0.003	20.03(1)	573.24(3)	0.012
	1.167	7	max	0.008	0.007	0.014	0.012	0.002	20.03(1)	464.79(3)	0.014
	1.750	7	max	0.008	0.007	0.017	0.014	0.001	20.03(1)	393.78(3)	0.017
	2.333	7	max	0.008	0.007	0.015	0.011	0.002	20.03(1)	438.27(3)	0.015
	2.917	7	max	0.008	0.007	0.009	0.013	0.003	20.03(1)	714.01(3)	0.013
	3.500	7	max	0.008	0.007	0.021	0.026	0.004	20.03(1)	327.01(3)	0.026
70015	0.000	7	max	0.010	0.007	0.023	0.027	0.009	20.03(1)	308.48(3)	0.027
	0.583	7	max	0.010	0.007	0.013	0.011	0.008	20.03(1)	492.60(3)	0.015
	1.167	7	max	0.010	0.007	0.015	0.014	0.007	20.03(1)	999.99(3)	0.016
	1.750	7	max	0.010	0.007	0.015	0.020	0.008	20.03(1)	525.58(3)	0.020
	2.333	7	max	0.010	0.007	0.017	0.022	0.009	20.03(1)	565.78(3)	0.022
	2.917	7	max	0.010	0.007	0.028	0.020	0.009	20.03(1)	336.42(3)	0.028

Steel - Resistance of Cross Sections

Utilisation Level

Beam	x[m]	SNo	LC	$\sigma-n,c$	$\sigma-n,t$	$\sigma-x$	$\sigma+x$	τ	c/t	c/t-lim	$\sigma-v$
70015	3.500	7	max	0.010	0.007	0.043	0.025	0.010	20.03(1)	238.22(3)	0.044
70016	0.000	7	max	0.005	0.004	0.043	0.035	0.042	20.03(1)	243.17(3)	0.057
	0.586	7	max	0.005	0.004	0.018	0.010	0.041	20.03(1)	439.71(3)	0.043
	1.171	7	max	0.005	0.004	0.016	0.008	0.040	20.03(1)	410.43(3)	0.043
	1.757	7	max	0.005	0.004	0.028	0.019	0.039	20.03(1)	287.73(3)	0.047
	2.343	7	max	0.005	0.004	0.038	0.028	0.038	20.03(1)	261.24(3)	0.050
	2.929	7	max	0.005	0.004	0.044	0.033	0.037	20.03(1)	265.14(3)	0.055
	3.514	7	max	0.005	0.004	0.044	0.044	0.038	20.03(1)	303.29(3)	0.056
	4.100	7	max	0.005	0.004	0.058	0.066	0.039	20.03(1)	363.63(3)	0.069

¹ Section of class 4 has small stresses allowing to be treated as class 3 (see EN 1993-1-1 5.5.2 (9))

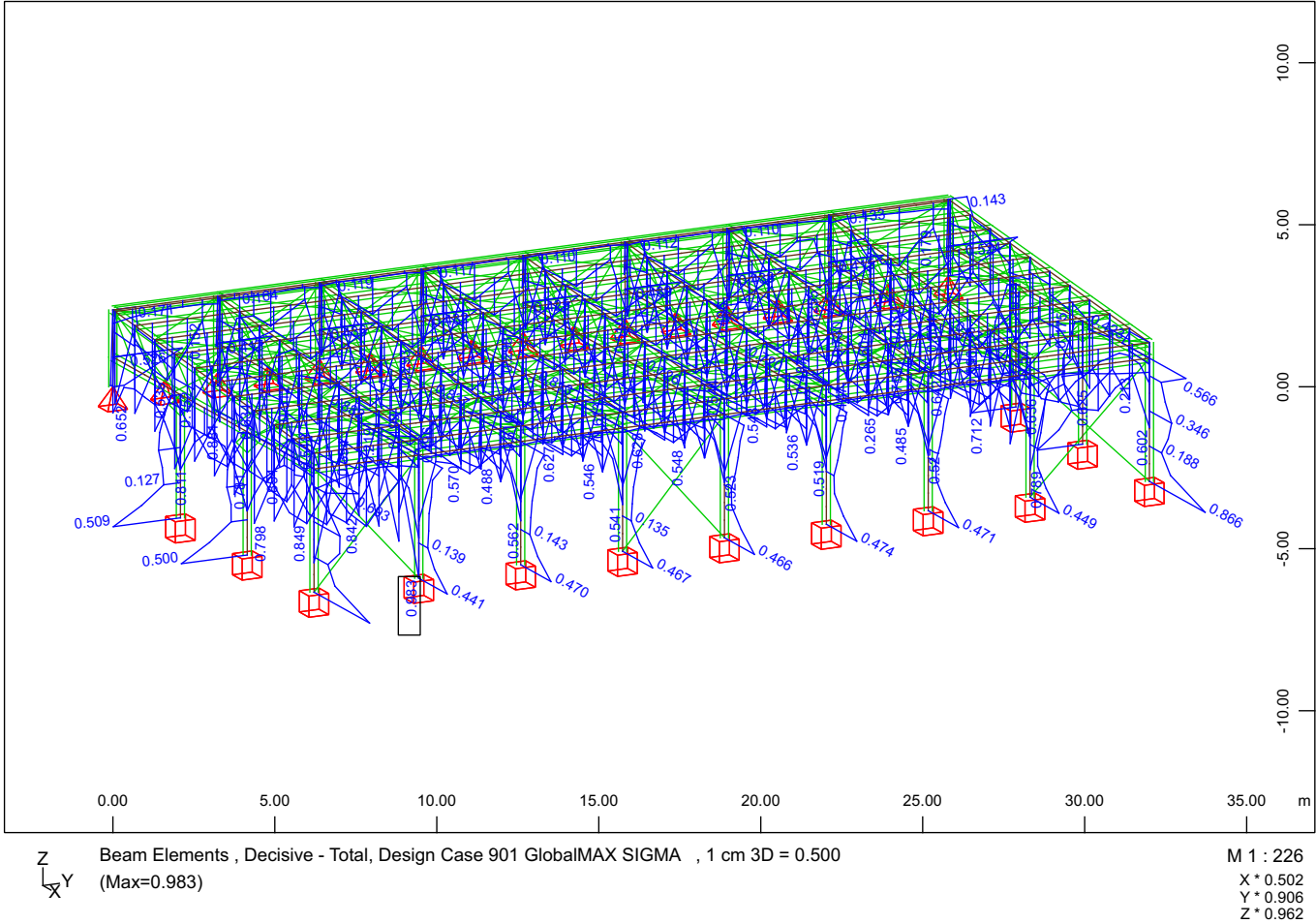
$\sigma-n,c,\sigma-n,t$ centric stress τ shear stress
 $\sigma-x$ longitud. compressive stress c/t existing c/t or D/t-ratio (section class)
 $\sigma+x$ longitud. tensile stress c/t-lim limit of c/t-ratio (base value * stress factor)
 $\sigma-v$ von Mises stress = square root of yield criterion including all effects (EN 1993-1-1, 6.2.1 (5), Eq.6.1)

Maximum Utilisation Level

	N	Vy	Vz	My	Mz	Mtp	Mts	Mb	Ncr	SCL	Total
	$\sigma-x$	$\sigma+x$	τ	$\sigma-v$	$\sigma-s$	$\sigma-dyn$	As-l	As-v	crack	c/t	
Section 1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	(1)	0.526
SH 120 x 120 x 5	0.525	0.514	0.093	0.526	-	-	-	-	-	0.252	
Section 2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	(1)	0.866
IPE 180	0.864	0.866	0.142	0.866	-	-	-	-	-	0.246	
Section 3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	(1)	0.882
SH 90 x 90 x 4	0.680	0.881	0.531	0.882	-	-	-	-	-	0.311	
Section 6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	(4)	0.983
TEGIDA Z180x1.5	0.858	0.971	0.296	0.983	-	-	-	-	-	1.021	
Section 7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	(1)	0.145
SH 90 x 90 x 4	0.145	0.116	0.043	0.145	-	-	-	-	-	0.061	
Total	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	(4)	0.983
	0.864	0.971	0.531	0.983	-	-	-	-	-	1.021	

N normal force τ shear stress
Vy,Vz shear force $\sigma-v$ von Mises stress
My,Mz bending $\sigma-s$ stress in reinforcements
Mtp,Mts torsion (p)rimary and (s)econdary $\sigma-dyn$ stress range
Mb warping moment As-l longitudinal reinforcements
Ncr flexural buckling As-v shear link reinforcements
SCL cross-section class crack crack width
 $\sigma-x$ longitud. compressive stress c/t stress dependant utilisation level (see AQB Manual 2.3.2)
 $\sigma+x$ longitud. tensile stress Total most unfavorable utilisation for all checks

Graphical Output



Steel - Resistance of Cross Sections

Materials

Mat	Classification	γ -M
1	S 235 (EN 1993)	1.00

Selected Truss Elements

Selection	NoA	NoE	x[m]	Type
TRUS	40001			
TRUS	40002			
TRUS	40003			
TRUS	40004			
TRUS	40005			
TRUS	40006			
TRUS	40007			
TRUS	40008			
TRUS	40009			
TRUS	40010			
TRUS	40011			
TRUS	40012			
TRUS	40013			
TRUS	40014			
TRUS	40015			
TRUS	40016			
TRUS	40017			
TRUS	40018			
TRUS	40019			
TRUS	40020			
TRUS	40021			
TRUS	40022			
TRUS	40023			
TRUS	40024			
TRUS	40025			
TRUS	40026			
TRUS	40027			
TRUS	40028			
TRUS	40029			
TRUS	40030			
TRUS	40031			
TRUS	40032			
TRUS	40033			
TRUS	40034			
TRUS	40035			
TRUS	40036			
TRUS	40037			
TRUS	40038			
TRUS	40039			
TRUS	40040			
TRUS	40041			
TRUS	40042			
TRUS	40043			
TRUS	40044			
TRUS	40045			
TRUS	40046			
TRUS	40047			
TRUS	40048			
TRUS	40049			
TRUS	40050			
TRUS	40051			
TRUS	40052			
TRUS	40053			
TRUS	40054			

Steel - Resistance of Cross Sections

Selected Truss Elements

Selection	NoA	NoE	x[m]	Type
TRUS	40055			
TRUS	40056			
TRUS	40057			
TRUS	40058			
TRUS	40059			
TRUS	40060			
TRUS	40061			
TRUS	40062			
TRUS	40063			
TRUS	40064			
TRUS	40065			
TRUS	40066			
TRUS	40067			
TRUS	40068			
TRUS	40069			
TRUS	40070			
TRUS	40071			
TRUS	40072			
TRUS	40073			
TRUS	40074			
TRUS	40075			
TRUS	40076			
TRUS	40077			
TRUS	40078			
TRUS	40079			
TRUS	40080			
TRUS	40081			
TRUS	40082			
TRUS	40083			
TRUS	40084			
TRUS	40085			
TRUS	40086			
TRUS	40087			
TRUS	40088			
TRUS	40089			
TRUS	40090			
TRUS	40091			
TRUS	40092			
TRUS	40093			
TRUS	40094			
TRUS	40095			
TRUS	40096			
TRUS	40097			
TRUS	40098			
TRUS	40099			
TRUS	40100			
TRUS	40101			
TRUS	40102			
TRUS	40103			
TRUS	40104			
TRUS	40105			
TRUS	40106			
TRUS	40107			
TRUS	40108			
TRUS	40109			
TRUS	40110			
TRUS	40111			
TRUS	40112			

Steel - Resistance of Cross Sections

Selected Truss Elements

Selection	NoA	NoE	x[m]	Type
TRUS	40113			
TRUS	40114			
TRUS	40115			
TRUS	40116			
TRUS	40117			
TRUS	40118			
TRUS	40119			
TRUS	40120			
TRUS	40121			
TRUS	40122			
TRUS	40123			
TRUS	40124			
TRUS	40125			
TRUS	40126			
TRUS	40127			
TRUS	40128			
TRUS	40129			
TRUS	40130			
TRUS	40131			
TRUS	40132			
TRUS	40133			
TRUS	40134			
TRUS	40135			
TRUS	40136			
TRUS	40137			
TRUS	40138			
TRUS	40139			
TRUS	40140			
TRUS	40141			
TRUS	40142			
TRUS	40143			
TRUS	40144			
TRUS	40145			
TRUS	40146			
TRUS	40147			
TRUS	40148			
TRUS	40149			
TRUS	40150			
TRUS	40151			
TRUS	40152			
TRUS	40153			
TRUS	40154			
TRUS	40155			
TRUS	40156			
TRUS	40157			
TRUS	40158			
TRUS	40159			
TRUS	40160			
TRUS	40161			
TRUS	40162			
TRUS	40163			
TRUS	40164			
TRUS	40165			
TRUS	40166			
TRUS	40167			
TRUS	40168			
TRUS	40169			
TRUS	40170			

Steel - Resistance of Cross Sections

Selected Truss Elements

Selection	NoA	NoE	x[m]	Type
TRUS	40171			
TRUS	80001			
TRUS	80002			
TRUS	80003			
TRUS	80004			
TRUS	80005			
TRUS	80006			
TRUS	80007			
TRUS	80008			
TRUS	80009			
TRUS	80010			
TRUS	80011			
TRUS	80012			
TRUS	80013			
TRUS	80014			
TRUS	80015			
TRUS	80016			
TRUS	90001			
TRUS	90002			
TRUS	90003			
TRUS	90004			
TRUS	90005			
TRUS	90006			
TRUS	100001			
TRUS	100002			
TRUS	100003			
TRUS	100004			
TRUS	100005			
TRUS	100006			
TRUS	100007			
TRUS	100008			
TRUS	100009			
TRUS	100010			
TRUS	100011			
TRUS	100012			
TRUS	100013			
TRUS	100014			
TRUS	100015			
TRUS	100016			
TRUS	100017			
TRUS	100018			
TRUS	100019			
TRUS	100020			
TRUS	100021			
TRUS	100022			
TRUS	100023			
TRUS	100024			
TRUS	100025			
TRUS	100026			
TRUS	100027			
TRUS	100028			
TRUS	100029			
TRUS	100030			
TRUS	100031			
TRUS	100032			
TRUS	100033			
TRUS	100034			
TRUS	100035			

Steel - Resistance of Cross Sections

Selected Truss Elements

Selection	NoA	NoE	x[m]	Type
TRUS	100036			
TRUS	100037			
TRUS	100038			
TRUS	100039			
TRUS	100040			
TRUS	100041			
TRUS	100042			
TRUS	100043			
TRUS	100044			
TRUS	100045			
TRUS	100046			
TRUS	100047			
TRUS	100048			
TRUS	100049			
TRUS	100050			
TRUS	110001			
TRUS	110002			
TRUS	110003			
TRUS	110004			
TRUS	110005			
TRUS	110006			
TRUS	110007			
TRUS	110008			
TRUS	110009			
TRUS	110010			
TRUS	110011			
TRUS	110012			
TRUS	110013			
TRUS	110014			
TRUS	110015			
TRUS	110016			
TRUS	110017			
TRUS	110018			
TRUS	110019			
TRUS	110020			
TRUS	110021			
TRUS	110022			
TRUS	110023			
TRUS	110024			
TRUS	110025			
TRUS	110026			
TRUS	110027			
TRUS	110028			
TRUS	110029			
TRUS	110030			
TRUS	110031			
TRUS	110032			
NoA, NoE range of element numbers x[m] x-ordinate of beam section or station on axis Type element type				

SOFISTIK AG - www.sofistik.de

Considered Load Cases

LC	ACT	REF	CS	Designation	γ -u	γ -f	ψ -0	ψ -1	ψ -2	ψ -1'	SUP
1001	(D)	T.L.		1.35G+1.5Q+0.75S+0.9W							
1002	(D)	T.L.		1.35G+1.5S+1.05Q+0.9W							
1003	(D)	T.L.		1.35G+1.5Q+0.75S+0.9W							
1004	(D)	T.L.		1.35G+1.5S+1.05Q+0.9W							
1005	(D)	T.L.		G+1.5W							
1006	(D)	T.L.		G+1.5W							

Steel - Resistance of Cross Sections

Considered Load Cases

LC	ACT	REF	CS	Designation	γ -u	γ -f	ψ -0	ψ -1	ψ -2	ψ -1'	SUP
2241	(D)			MAX-N TRUS Forces in Truss Eleme							
2242	(D)			MIN-N TRUS Forces in Truss Eleme							
2341	(D)			MAX-N TRUS Forces in Truss Eleme							
2342	(D)			MIN-N TRUS Forces in Truss Eleme							
LC load case					CS section the load case is acting on						
ACT action					SUP action type, group and superposition category						
REF reference point for forces and moments											

Elastic Stress Check

Combinations of Load Cases

Results are saved for load cases 1001 1002 1003 1004 1005 1006 2241
Results are saved for load cases 2242 2341 2342
Maximum results are saved to load case 901 GlobalMAX SIGMA

Stresses

All stresses shown in [MPa]

Truss	SNo	LC	Mat	σ -x	σ +x	$\Delta\sigma$	τ	σ -I	σ -II	σ -v	N[kN]
40001	4	min	1	11.70	-15.05		0.00				
		max	1	-15.05	11.70		0.00				
40002	4	min	1	9.50	-8.12		0.00				
		max	1	-8.12	9.50		0.00				
40003	4	min	1	8.33	-1.19		0.00				
		max	1	-1.19	8.33		0.00				
40004	4	min	1	5.58	-6.51		0.00				
		max	1	-6.51	5.58		0.00				
40005	4	min	1	25.72	-22.37		0.00				
		max	1	-22.37	25.72		0.00				
40006	4	min	1	30.92	-20.33		0.00				
		max	1	-20.33	30.92		0.00				
40007	4	min	1	7.25	-3.04		0.00				
		max	1	-3.04	7.25		0.00				
40008	4	min	1	19.27	-14.53		0.00				
		max	1	-14.53	19.27		0.00				
40009	4	min	1	9.87	-12.83		0.00				
		max	1	-12.83	9.87		0.00				
40010	4	min	1	11.10	-7.36		0.00				
		max	1	-7.36	11.10		0.00				
40011	4	min	1	15.22	-17.93		0.00				
		max	1	-17.93	15.22		0.00				
40012	4	min	1	22.76	-18.14		0.00				
		max	1	-18.14	22.76		0.00				
40013	4	min	1	4.25	-7.16		0.00				
		max	1	-7.16	4.25		0.00				
40014	4	min	1	27.66	-18.86		0.00				
		max	1	-18.86	27.66		0.00				
40015	4	min	1	22.32	-20.91		0.00				
		max	1	-20.91	22.32		0.00				
40016	4	min	1	2.94	-0.89		0.00				
		max	1	-0.89	2.94		0.00				
40017	4	min	1	5.90	-10.56		0.00				
		max	1	-10.56	5.90		0.00				
40018	4	min	1	16.87	-10.80		0.00				
		max	1	-10.80	16.87		0.00				
40019	5	min	1	13.12	-18.16		0.00				
		max	1	-18.16	13.12		0.00				
40020	4	min	1	23.37	-18.97		0.00				
		max	1	-18.97	23.37		0.00				
40021	4	min	1	73.11	-90.83		0.00				

Steel - Resistance of Cross Sections

Truss	SNo	LC	Mat	$\sigma-x$	$\sigma+x$	$\Delta\sigma$	τ	$\sigma-I$	$\sigma-II$	$\sigma-v$	N[kN]
40021	4	max	1	-90.83	73.11		0.00				
40022	4	min	1	112.00	-89.37		0.00				
		max	1	-89.37	112.00		0.00				
40023	4	min	1	63.05	-77.27		0.00				
		max	1	-77.27	63.05		0.00				
40024	4	min	1	93.35	-74.80		0.00				
		max	1	-74.80	93.35		0.00				
40025	4	min	1	50.38	-63.36		0.00				
		max	1	-63.36	50.38		0.00				
40026	4	min	1	71.21	-56.11		0.00				
		max	1	-56.11	71.21		0.00				
40027	4	min	1	36.77	-45.48		0.00				
		max	1	-45.48	36.77		0.00				
40028	4	min	1	48.23	-37.10		0.00				
		max	1	-37.10	48.23		0.00				
40029	4	min	1	15.87	-17.56		0.00				
		max	1	-17.56	15.87		0.00				
40030	4	min	1	14.79	-22.00		0.00				
		max	1	-22.00	14.79		0.00				
40031	4	min	1	7.12	-5.31		0.00				
		max	1	-5.31	7.12		0.00				
40032	4	min	1	12.43	-14.01		0.00				
		max	1	-14.01	12.43		0.00				
40033	4	min	1	24.79	-27.21		0.00				
		max	1	-27.21	24.79		0.00				
40034	4	min	1	59.25	-52.50		0.00				
		max	1	-52.50	59.25		0.00				
40035	4	min	1	41.32	-47.69		0.00				
		max	1	-47.69	41.32		0.00				
40036	4	min	1	17.87	-18.14		0.00				
		max	1	-18.14	17.87		0.00				
40037	4	min	1	12.07	-8.26		0.00				
		max	1	-8.26	12.07		0.00				
40038	4	min	1	17.30	-22.93		0.00				
		max	1	-22.93	17.30		0.00				
40039	4	min	1	41.98	-31.38		0.00				
		max	1	-31.38	41.98		0.00				
40040	4	min	1	38.96	-43.78		0.00				
		max	1	-43.78	38.96		0.00				
40041	4	min	1	44.38	-38.74		0.00				
		max	1	-38.74	44.38		0.00				
40042	4	min	1	101.45	-114.49		0.00				
		max	1	-114.49	101.45		0.00				
40043	4	min	1	76.50	-65.30		0.00				
		max	1	-65.30	76.50		0.00				
40044	5	min	1	92.85	-103.76		0.00				
		max	1	-103.76	92.85		0.00				
40045	4	min	1	79.60	-65.52		0.00				
		max	1	-65.52	79.60		0.00				
40046	4	min	1	63.21	-65.27		0.00				
		max	1	-65.27	63.21		0.00				
40047	4	min	1	64.92	-59.76		0.00				
		max	1	-59.76	64.92		0.00				
40048	4	min	1	85.94	-91.14		0.00				
		max	1	-91.14	85.94		0.00				
40049	4	min	1	120.24	-94.67		0.00				
		max	1	-94.67	120.24		0.00				
40050	4	min	1	69.70	-88.86		0.00				
		max	1	-88.86	69.70		0.00				

Steel - Resistance of Cross Sections

Truss	SNo	LC	Mat	$\sigma-x$	$\sigma+x$	$\Delta\sigma$	τ	$\sigma-I$	$\sigma-II$	$\sigma-v$	N[kN]
40051	4	min	1	109.30	-84.42		0.00				
		max	1	-84.42	109.30		0.00				
40052	4	min	1	58.08	-49.73		0.00				
		max	1	-49.73	58.08		0.00				
40053	4	min	1	40.06	-47.02		0.00				
		max	1	-47.02	40.06		0.00				
40054	4	min	1	124.07	-104.13		0.00				
		max	1	-104.13	124.07		0.00				
40055	4	min	1	63.77	-74.25		0.00				
		max	1	-74.25	63.77		0.00				
40056	5	min	1	104.96	-86.19		0.00				
		max	1	-86.19	104.96		0.00				
40057	5	min	1	104.28	-84.23		0.00				
		max	1	-84.23	104.28		0.00				
40058	4	min	1	121.72	-97.48		0.00				
		max	1	-97.48	121.72		0.00				
40059	4	min	1	71.98	-90.07		0.00				
		max	1	-90.07	71.98		0.00				
40060	4	min	1	110.64	-87.27		0.00				
		max	1	-87.27	110.64		0.00				
40061	4	min	1	61.53	-76.29		0.00				
		max	1	-76.29	61.53		0.00				
40062	4	min	1	91.93	-72.51		0.00				
		max	1	-72.51	91.93		0.00				
40063	4	min	1	50.64	-61.66		0.00				
		max	1	-61.66	50.64		0.00				
40064	4	min	1	70.46	-56.72		0.00				
		max	1	-56.72	70.46		0.00				
40065	4	min	1	37.20	-44.96		0.00				
		max	1	-44.96	37.20		0.00				
40066	4	min	1	47.83	-37.56		0.00				
		max	1	-37.56	47.83		0.00				
40067	4	min	1	15.75	-17.59		0.00				
		max	1	-17.59	15.75		0.00				
40068	4	min	1	15.50	-21.57		0.00				
		max	1	-21.57	15.50		0.00				
40069	4	min	1	6.88	-5.26		0.00				
		max	1	-5.26	6.88		0.00				
40070	4	min	1	12.38	-13.45		0.00				
		max	1	-13.45	12.38		0.00				
40071	4	min	1	24.40	-26.38		0.00				
		max	1	-26.38	24.40		0.00				
40072	4	min	1	59.58	-75.40		0.00				
		max	1	-75.40	59.58		0.00				
40073	4	min	1	90.87	-70.37		0.00				
		max	1	-70.37	90.87		0.00				
40074	4	min	1	47.41	-59.71		0.00				
		max	1	-59.71	47.41		0.00				
40075	4	min	1	70.39	-54.77		0.00				
		max	1	-54.77	70.39		0.00				
40076	4	min	1	35.90	-44.93		0.00				
		max	1	-44.93	35.90		0.00				
40077	4	min	1	47.74	-36.50		0.00				
		max	1	-36.50	47.74		0.00				
40078	4	min	1	15.39	-17.36		0.00				
		max	1	-17.36	15.39		0.00				
40079	4	min	1	15.04	-21.85		0.00				
		max	1	-21.85	15.04		0.00				
40080	4	min	1	6.50	-5.19		0.00				

Steel - Resistance of Cross Sections

Truss	SNo	LC	Mat	$\sigma-x$	$\sigma+x$	$\Delta\sigma$	τ	$\sigma-I$	$\sigma-II$	$\sigma-v$	N[kN]
40080	4	max	1	-5.19	6.50		0.00				
40081	4	min	1	12.22	-12.73		0.00				
		max	1	-12.73	12.22		0.00				
40082	4	min	1	23.17	-25.56		0.00				
		max	1	-25.56	23.17		0.00				
40083	4	min	1	57.96	-48.98		0.00				
		max	1	-48.98	57.96		0.00				
40084	4	min	1	39.18	-46.83		0.00				
		max	1	-46.83	39.18		0.00				
40085	4	min	1	123.52	-101.90		0.00				
		max	1	-101.90	123.52		0.00				
40086	4	min	1	62.48	-73.77		0.00				
		max	1	-73.77	62.48		0.00				
40087	4	min	1	125.73	-107.84		0.00				
		max	1	-107.84	125.73		0.00				
40088	4	min	1	65.81	-74.93		0.00				
		max	1	-74.93	65.81		0.00				
40089	5	min	1	105.95	-87.91		0.00				
		max	1	-87.91	105.95		0.00				
40090	4	min	1	122.81	-99.42		0.00				
		max	1	-99.42	122.81		0.00				
40091	4	min	1	94.52	-87.59		0.00				
		max	1	-87.59	94.52		0.00				
40092	4	min	1	103.00	-112.24		0.00				
		max	1	-112.24	103.00		0.00				
40093	4	min	1	82.65	-75.50		0.00				
		max	1	-75.50	82.65		0.00				
40094	4	min	1	64.35	-71.18		0.00				
		max	1	-71.18	64.35		0.00				
40095	4	min	1	69.98	-56.07		0.00				
		max	1	-56.07	69.98		0.00				
40096	4	min	1	36.68	-44.74		0.00				
		max	1	-44.74	36.68		0.00				
40097	4	min	1	48.30	-37.98		0.00				
		max	1	-37.98	48.30		0.00				
40098	4	min	1	14.69	-17.07		0.00				
		max	1	-17.07	14.69		0.00				
40099	4	min	1	17.96	-22.88		0.00				
		max	1	-22.88	17.96		0.00				
40100	4	min	1	4.76	-4.07		0.00				
		max	1	-4.07	4.76		0.00				
40101	4	min	1	9.97	-9.56		0.00				
		max	1	-9.56	9.97		0.00				
40102	4	min	1	30.94	-31.13		0.00				
		max	1	-31.13	30.94		0.00				
40103	4	min	1	60.38	-61.81		0.00				
		max	1	-61.81	60.38		0.00				
40104	4	min	1	45.13	-47.72		0.00				
		max	1	-47.72	45.13		0.00				
40105	4	min	1	125.88	-118.07		0.00				
		max	1	-118.07	125.88		0.00				
40106	4	min	1	69.18	-74.50		0.00				
		max	1	-74.50	69.18		0.00				
40107	5	min	1	105.53	-92.76		0.00				
		max	1	-92.76	105.53		0.00				
40108	4	min	1	47.69	-52.60		0.00				
		max	1	-52.60	47.69		0.00				
40109	4	min	1	70.97	-78.99		0.00				
		max	1	-78.99	70.97		0.00				

Steel - Resistance of Cross Sections

Truss	SNo	LC	Mat	$\sigma-x$	$\sigma+x$	$\Delta\sigma$	τ	$\sigma-I$	$\sigma-II$	$\sigma-v$	N[kN]
40110	4	min	1	52.40	-45.98		0.00				
		max	1	-45.98	52.40		0.00				
40111	4	min	1	122.65	-98.24		0.00				
		max	1	-98.24	122.65		0.00				
40112	4	min	1	72.80	-90.97		0.00				
		max	1	-90.97	72.80		0.00				
40113	4	min	1	113.90	-90.29		0.00				
		max	1	-90.29	113.90		0.00				
40114	4	min	1	63.51	-78.46		0.00				
		max	1	-78.46	63.51		0.00				
40115	4	min	1	97.16	-77.46		0.00				
		max	1	-77.46	97.16		0.00				
40116	4	min	1	57.28	-70.35		0.00				
		max	1	-70.35	57.28		0.00				
40117	4	min	1	68.99	-55.02		0.00				
		max	1	-55.02	68.99		0.00				
40118	4	min	1	36.09	-44.02		0.00				
		max	1	-44.02	36.09		0.00				
40119	4	min	1	47.73	-37.23		0.00				
		max	1	-37.23	47.73		0.00				
40120	4	min	1	121.85	-105.57		0.00				
		max	1	-105.57	121.85		0.00				
40121	4	min	1	78.06	-90.27		0.00				
		max	1	-90.27	78.06		0.00				
40122	4	min	1	112.10	-99.50		0.00				
		max	1	-99.50	112.10		0.00				
40123	4	min	1	69.87	-77.29		0.00				
		max	1	-77.29	69.87		0.00				
40124	4	min	1	14.75	-16.62		0.00				
		max	1	-16.62	14.75		0.00				
40125	4	min	1	16.90	-23.14		0.00				
		max	1	-23.14	16.90		0.00				
40126	4	min	1	5.22	-3.55		0.00				
		max	1	-3.55	5.22		0.00				
40127	4	min	1	9.04	-10.22		0.00				
		max	1	-10.22	9.04		0.00				
40128	4	min	1	27.10	-30.28		0.00				
		max	1	-30.28	27.10		0.00				
40129	4	min	1	62.19	-53.44		0.00				
		max	1	-53.44	62.19		0.00				
40130	4	min	1	41.03	-48.20		0.00				
		max	1	-48.20	41.03		0.00				
40131	4	min	1	127.26	-106.75		0.00				
		max	1	-106.75	127.26		0.00				
40132	4	min	1	63.97	-74.70		0.00				
		max	1	-74.70	63.97		0.00				
40133	5	min	1	105.76	-86.64		0.00				
		max	1	-86.64	105.76		0.00				
40134	4	min	1	70.25	-54.32		0.00				
		max	1	-54.32	70.25		0.00				
40135	4	min	1	55.78	-70.23		0.00				
		max	1	-70.23	55.78		0.00				
40136	4	min	1	77.87	-63.26		0.00				
		max	1	-63.26	77.87		0.00				
40137	4	min	1	41.93	-50.45		0.00				
		max	1	-50.45	41.93		0.00				
40138	4	min	1	52.40	-42.07		0.00				
		max	1	-42.07	52.40		0.00				
40139	4	min	1	18.91	-20.72		0.00				

Steel - Resistance of Cross Sections

Truss	SNo	LC	Mat	$\sigma-x$	$\sigma+x$	$\Delta\sigma$	τ	$\sigma-I$	$\sigma-II$	$\sigma-v$	N [kN]
40139	4	max	1	-20.72	18.91		0.00				
40140	4	min	1	14.30	-20.37		0.00				
		max	1	-20.37	14.30		0.00				
40141	4	min	1	9.75	-8.76		0.00				
		max	1	-8.76	9.75		0.00				
40142	4	min	1	18.36	-18.46		0.00				
		max	1	-18.46	18.36		0.00				
40143	4	min	1	28.56	-32.99		0.00				
		max	1	-32.99	28.56		0.00				
40144	4	min	1	43.01	-36.71		0.00				
		max	1	-36.71	43.01		0.00				
40145	4	min	1	36.18	-42.52		0.00				
		max	1	-42.52	36.18		0.00				
40146	4	min	1	111.26	-93.08		0.00				
		max	1	-93.08	111.26		0.00				
40147	4	min	1	61.65	-71.42		0.00				
		max	1	-71.42	61.65		0.00				
40148	5	min	1	101.52	-83.75		0.00				
		max	1	-83.75	101.52		0.00				
40149	4	min	1	112.95	-90.70		0.00				
		max	1	-90.70	112.95		0.00				
40150	4	min	1	66.77	-83.19		0.00				
		max	1	-83.19	66.77		0.00				
40151	4	min	1	94.94	-74.20		0.00				
		max	1	-74.20	94.94		0.00				
40152	4	min	1	52.89	-65.97		0.00				
		max	1	-65.97	52.89		0.00				
40153	4	min	1	3.09	-0.60		0.00				
		max	1	-0.60	3.09		0.00				
40154	4	min	1	6.28	-7.50		0.00				
		max	1	-7.50	6.28		0.00				
40155	4	min	1	11.39	-12.06		0.00				
		max	1	-12.06	11.39		0.00				
40156	5	min	1	14.82	-11.47		0.00				
		max	1	-11.47	14.82		0.00				
40157	4	min	1	13.54	-8.67		0.00				
		max	1	-8.67	13.54		0.00				
40158	4	min	1	4.77	-8.88		0.00				
		max	1	-8.88	4.77		0.00				
40159	4	min	1	8.15	-0.81		0.00				
		max	1	-0.81	8.15		0.00				
40160	4	min	1	5.57	-6.53		0.00				
		max	1	-6.53	5.57		0.00				
40161	4	min	1	19.02	-24.03		0.00				
		max	1	-24.03	19.02		0.00				
40162	4	min	1	15.06	-21.50		0.00				
		max	1	-21.50	15.06		0.00				
40163	4	min	1	6.64	0.89		0.00				
		max	1	0.89	6.64		0.00				
40164	4	min	1	11.56	-16.38		0.00				
		max	1	-16.38	11.56		0.00				
40165	4	min	1	11.29	-7.11		0.00				
		max	1	-7.11	11.29		0.00				
40166	4	min	1	6.98	-8.37		0.00				
		max	1	-8.37	6.98		0.00				
40167	4	min	1	16.28	-12.91		0.00				
		max	1	-12.91	16.28		0.00				
40168	4	min	1	15.41	-19.82		0.00				
		max	1	-19.82	15.41		0.00				

Steel - Resistance of Cross Sections

Truss	SNo	LC	Mat	$\sigma-x$	$\sigma+x$	$\Delta\sigma$	τ	$\sigma-I$	$\sigma-II$	$\sigma-v$	N[kN]
40169	4	min	1	5.14	-3.83		0.00				
		max	1	-3.83	5.14		0.00				
40170	4	min	1	15.57	-19.93		0.00				
		max	1	-19.93	15.57		0.00				
40171	4	min	1	13.86	-23.23		0.00				
		max	1	-23.23	13.86		0.00				
80001	8	min	1	3.64	-5.43		0.00				
		max	1	-5.43	3.64		0.00				
80002	8	min	1	6.39	-3.45		0.00				
		max	1	-3.45	6.39		0.00				
80003	8	min	1	9.11	-11.18		0.00				
		max	1	-11.18	9.11		0.00				
80004	8	min	1	7.56	-6.17		0.00				
		max	1	-6.17	7.56		0.00				
80005	8	min	1	6.10	-10.32		0.00				
		max	1	-10.32	6.10		0.00				
80006	8	min	1	8.17	-7.61		0.00				
		max	1	-7.61	8.17		0.00				
80007	8	min	1	4.92	-9.04		0.00				
		max	1	-9.04	4.92		0.00				
80008	8	min	1	8.20	-8.16		0.00				
		max	1	-8.16	8.20		0.00				
80009	8	min	1	4.18	-8.18		0.00				
		max	1	-8.18	4.18		0.00				
80010	8	min	1	8.78	-8.78		0.00				
		max	1	-8.78	8.78		0.00				
80011	8	min	1	3.95	-7.76		0.00				
		max	1	-7.76	3.95		0.00				
80012	8	min	1	9.68	-10.01		0.00				
		max	1	-10.01	9.68		0.00				
80013	8	min	1	3.03	-6.50		0.00				
		max	1	-6.50	3.03		0.00				
80014	8	min	1	10.83	-11.62		0.00				
		max	1	-11.62	10.83		0.00				
80015	8	min	1	0.95	-3.74		0.00				
		max	1	-3.74	0.95		0.00				
80016	8	min	1	5.83	-5.64		0.00				
		max	1	-5.64	5.83		0.00				
90001	7	min	1	2.81	-3.78		0.00				
		max	1	-3.78	2.81		0.00				
90002	7	min	1	9.18	-6.13		0.00				
		max	1	-6.13	9.18		0.00				
90003	7	min	1	3.78	-6.87		0.00				
		max	1	-6.87	3.78		0.00				
90004	7	min	1	7.14	-6.94		0.00				
		max	1	-6.94	7.14		0.00				
90005	7	min	1	2.02	-5.50		0.00				
		max	1	-5.50	2.02		0.00				
90006	7	min	1	3.37	-0.95		0.00				
		max	1	-0.95	3.37		0.00				
100001	9	min	1	12.06	-13.09		0.00				
		max	1	-13.09	12.06		0.00				
100002	9	min	1	17.53	-21.68		0.00				
		max	1	-21.68	17.53		0.00				
100003	9	min	1	6.46	-4.22		0.00				
		max	1	-4.22	6.46		0.00				
100004	9	min	1	2.02	0.33		0.00				
		max	1	0.33	2.02		0.00				
100005	9	min	1	23.94	-23.34		0.00				

Steel - Resistance of Cross Sections

Truss	SNo	LC	Mat	$\sigma-x$	$\sigma+x$	$\Delta\sigma$	τ	$\sigma-I$	$\sigma-II$	$\sigma-v$	N [kN]
100005	9	max	1	-23.34	23.94		0.00				
100006	9	min	1	4.29	-5.26		0.00				
		max	1	-5.26	4.29		0.00				
100007	9	min	1	14.37	-16.60		0.00				
		max	1	-16.60	14.37		0.00				
100008	9	min	1	11.23	-10.78		0.00				
		max	1	-10.78	11.23		0.00				
100009	9	min	1	9.34	-8.50		0.00				
		max	1	-8.50	9.34		0.00				
100010	9	min	1	23.21	-22.18		0.00				
		max	1	-22.18	23.21		0.00				
100011	9	min	1	12.08	-11.37		0.00				
		max	1	-11.37	12.08		0.00				
100012	9	min	1	10.01	-16.06		0.00				
		max	1	-16.06	10.01		0.00				
100013	9	min	1	14.90	-16.94		0.00				
		max	1	-16.94	14.90		0.00				
100014	9	min	1	24.14	-24.62		0.00				
		max	1	-24.62	24.14		0.00				
100015	9	min	1	10.11	-15.33		0.00				
		max	1	-15.33	10.11		0.00				
100016	9	min	1	17.60	-19.43		0.00				
		max	1	-19.43	17.60		0.00				
100017	9	min	1	14.33	-21.86		0.00				
		max	1	-21.86	14.33		0.00				
100018	9	min	1	13.43	-18.38		0.00				
		max	1	-18.38	13.43		0.00				
100019	9	min	1	19.93	-15.39		0.00				
		max	1	-15.39	19.93		0.00				
100020	9	min	1	5.19	-7.17		0.00				
		max	1	-7.17	5.19		0.00				
100021	9	min	1	21.01	-22.26		0.00				
		max	1	-22.26	21.01		0.00				
100022	9	min	1	9.47	-10.99		0.00				
		max	1	-10.99	9.47		0.00				
100023	9	min	1	8.97	-9.93		0.00				
		max	1	-9.93	8.97		0.00				
100024	9	min	1	13.41	-14.24		0.00				
		max	1	-14.24	13.41		0.00				
100025	9	min	1	3.58	-6.93		0.00				
		max	1	-6.93	3.58		0.00				
100026	9	min	1	20.94	-22.92		0.00				
		max	1	-22.92	20.94		0.00				
100027	9	min	1	2.04	-2.83		0.00				
		max	1	-2.83	2.04		0.00				
100028	9	min	1	1.30	-3.74		0.00				
		max	1	-3.74	1.30		0.00				
100029	9	min	1	20.47	-19.86		0.00				
		max	1	-19.86	20.47		0.00				
100030	9	min	1	13.18	-11.93		0.00				
		max	1	-11.93	13.18		0.00				
100031	9	min	1	15.60	-13.84		0.00				
		max	1	-13.84	15.60		0.00				
100032	9	min	1	3.52	-6.80		0.00				
		max	1	-6.80	3.52		0.00				
100033	9	min	1	11.12	-9.14		0.00				
		max	1	-9.14	11.12		0.00				
100034	9	min	1	7.58	-12.12		0.00				
		max	1	-12.12	7.58		0.00				

Steel - Resistance of Cross Sections

Truss	SNo	LC	Mat	$\sigma-x$	$\sigma+x$	$\Delta\sigma$	τ	$\sigma-I$	$\sigma-II$	$\sigma-v$	N[kN]
100035	9	min	1	10.36	-8.71		0.00				
		max	1	-8.71	10.36		0.00				
100036	9	min	1	8.58	-13.59		0.00				
		max	1	-13.59	8.58		0.00				
100037	9	min	1	13.43	-15.16		0.00				
		max	1	-15.16	13.43		0.00				
100038	9	min	1	16.37	-23.03		0.00				
		max	1	-23.03	16.37		0.00				
100039	9	min	1	11.29	-13.63		0.00				
		max	1	-13.63	11.29		0.00				
100040	9	min	1	19.72	-25.98		0.00				
		max	1	-25.98	19.72		0.00				
100041	9	min	1	13.28	-16.76		0.00				
		max	1	-16.76	13.28		0.00				
100042	9	min	1	17.82	-23.09		0.00				
		max	1	-23.09	17.82		0.00				
100043	9	min	1	6.90	-11.66		0.00				
		max	1	-11.66	6.90		0.00				
100044	9	min	1	27.47	-28.73		0.00				
		max	1	-28.73	27.47		0.00				
100045	9	min	1	9.01	-15.41		0.00				
		max	1	-15.41	9.01		0.00				
100046	9	min	1	26.55	-21.58		0.00				
		max	1	-21.58	26.55		0.00				
100047	9	min	1	13.37	-3.78		0.00				
		max	1	-3.78	13.37		0.00				
100048	9	min	1	14.83	-16.13		0.00				
		max	1	-16.13	14.83		0.00				
100049	9	min	1	18.88	-13.05		0.00				
		max	1	-13.05	18.88		0.00				
100050	9	min	1	7.91	-8.22		0.00				
		max	1	-8.22	7.91		0.00				
110001	10	min	1	30.76	-34.06		0.00				
		max	1	-34.06	30.76		0.00				
110002	10	min	1	17.95	-8.65		0.00				
		max	1	-8.65	17.95		0.00				
110003	10	min	1	17.90	-8.66		0.00				
		max	1	-8.66	17.90		0.00				
110004	10	min	1	6.99	-4.16		0.00				
		max	1	-4.16	6.99		0.00				
110005	10	min	1	6.99	-4.16		0.00				
		max	1	-4.16	6.99		0.00				
110006	10	min	1	11.15	-8.65		0.00				
		max	1	-8.65	11.15		0.00				
110007	10	min	1	11.18	-8.61		0.00				
		max	1	-8.61	11.18		0.00				
110008	10	min	1	30.35	-3.17		0.00				
		max	1	-3.17	30.35		0.00				
110009	10	min	1	62.49	-48.94		0.00				
		max	1	-48.94	62.49		0.00				
110010	10	min	1	63.20	-49.56		0.00				
		max	1	-49.56	63.20		0.00				
110011	10	min	1	3.93	-1.58		0.00				
		max	1	-1.58	3.93		0.00				
110012	10	min	1	3.91	-1.65		0.00				
		max	1	-1.65	3.91		0.00				
110013	10	min	1	3.89	0.41		0.00				
		max	1	0.41	3.89		0.00				
110014	10	min	1	3.89	0.41		0.00				

Steel - Resistance of Cross Sections

Truss	SNo	LC	Mat	$\sigma-x$	$\sigma+x$	$\Delta\sigma$	τ	$\sigma-I$	$\sigma-II$	$\sigma-v$	N[kN]
110014	10	max	1	0.41	3.89		0.00				
110015	10	min	1	59.58	-88.24		0.00				
		max	1	-88.24	59.58		0.00				
110016	10	min	1	59.64	-88.21		0.00				
		max	1	-88.21	59.64		0.00				
110017	10	min	1	54.73	-80.17		0.00				
		max	1	-80.17	54.73		0.00				
110018	10	min	1	29.10	-32.77		0.00				
		max	1	-32.77	29.10		0.00				
110019	10	min	1	15.69	-6.38		0.00				
		max	1	-6.38	15.69		0.00				
110020	10	min	1	54.65	-80.31		0.00				
		max	1	-80.31	54.65		0.00				
110021	10	min	1	4.85	-0.46		0.00				
		max	1	-0.46	4.85		0.00				
110022	10	min	1	15.66	-6.32		0.00				
		max	1	-6.32	15.66		0.00				
110023	10	min	1	5.39	-0.77		0.00				
		max	1	-0.77	5.39		0.00				
110024	10	min	1	4.84	-0.32		0.00				
		max	1	-0.32	4.84		0.00				
110025	10	min	1	4.05	-3.76		0.00				
		max	1	-3.76	4.05		0.00				
110026	10	min	1	5.39	-0.63		0.00				
		max	1	-0.63	5.39		0.00				
110027	10	min	1	9.37	-6.91		0.00				
		max	1	-6.91	9.37		0.00				
110028	10	min	1	4.04	-3.70		0.00				
		max	1	-3.70	4.04		0.00				
110029	10	min	1	57.38	-45.19		0.00				
		max	1	-45.19	57.38		0.00				
110030	10	min	1	9.39	-6.83		0.00				
		max	1	-6.83	9.39		0.00				
110031	10	min	1	28.84	-2.39		0.00				
		max	1	-2.39	28.84		0.00				
110032	10	min	1	57.12	-44.90		0.00				
		max	1	-44.90	57.12		0.00				
Total		min	1	127.26	-118.07		0.00				
Total		max	1	-118.07	127.26		0.00				

$\sigma-x$ longitud. compressive stress $\sigma-I$ principal tensile stress
 $\sigma+x$ longitud. tensile stress $\sigma-II$ principal compressive stress
 $\Delta\sigma$ range of reinforcement stress $\sigma-v$ von Mises stress
 τ shear stress N[kN] partial normal force in composite section

Maximum Stresses and Checked Limits

Mat	Check or Criterion	Value	Limit	Unit	Level	LC	Truss
1	Centric compression $\sigma-n,c$	118.07	235.00	MPa	0.502	2342	40105
	Centric tension $\sigma-n,t$	127.26	235.00	MPa	0.542	2341	40131
	Plate slenderness c/t		1.00				

Check for stress limits passed,

Utilisation Level

Truss	SNo	LC	$\sigma-n,c$	$\sigma-n,t$	$\sigma-x$	$\sigma+x$	τ	c/t	c/t-lim	$\sigma-v$
40001	4	max	0.064	0.050	0.064	0.050	0.000	0.00(0)		0.064
40002	4	max	0.035	0.040	0.035	0.040	0.000	0.00(0)		0.040
40003	4	max	0.005	0.035	0.005	0.035	0.000	0.00(0)		0.035
40004	4	max	0.028	0.024	0.028	0.024	0.000	0.00(0)		0.028
40005	4	max	0.095	0.109	0.095	0.109	0.000	0.00(0)		0.109
40006	4	max	0.087	0.132	0.087	0.132	0.000	0.00(0)		0.132
40007	4	max	0.013	0.031	0.013	0.031	0.000	0.00(0)		0.031

Steel - Resistance of Cross Sections

Utilisation Level

Truss	SNo	LC	$\sigma_{-n,c}$	$\sigma_{-n,t}$	σ_{-x}	σ_{+x}	τ	c/t	c/t-lim	σ_{-v}
40008	4	max	0.062	0.082	0.062	0.082	0.000	0.00(0)		0.082
40009	4	max	0.055	0.042	0.055	0.042	0.000	0.00(0)		0.055
40010	4	max	0.031	0.047	0.031	0.047	0.000	0.00(0)		0.047
40011	4	max	0.076	0.065	0.076	0.065	0.000	0.00(0)		0.076
40012	4	max	0.077	0.097	0.077	0.097	0.000	0.00(0)		0.097
40013	4	max	0.030	0.018	0.030	0.018	0.000	0.00(0)		0.030
40014	4	max	0.080	0.118	0.080	0.118	0.000	0.00(0)		0.118
40015	4	max	0.089	0.095	0.089	0.095	0.000	0.00(0)		0.095
40016	4	max	0.004	0.013	0.004	0.013	0.000	0.00(0)		0.013
40017	4	max	0.045	0.025	0.045	0.025	0.000	0.00(0)		0.045
40018	4	max	0.046	0.072	0.046	0.072	0.000	0.00(0)		0.072
40019	5	max	0.077	0.056	0.077	0.056	0.000	0.00(0)		0.077
40020	4	max	0.081	0.099	0.081	0.099	0.000	0.00(0)		0.099
40021	4	max	0.386	0.311	0.386	0.311	0.000	0.00(0)		0.386
40022	4	max	0.380	0.477	0.380	0.477	0.000	0.00(0)		0.477
40023	4	max	0.329	0.268	0.329	0.268	0.000	0.00(0)		0.329
40024	4	max	0.318	0.397	0.318	0.397	0.000	0.00(0)		0.397
40025	4	max	0.270	0.214	0.270	0.214	0.000	0.00(0)		0.270
40026	4	max	0.239	0.303	0.239	0.303	0.000	0.00(0)		0.303
40027	4	max	0.194	0.156	0.194	0.156	0.000	0.00(0)		0.194
40028	4	max	0.158	0.205	0.158	0.205	0.000	0.00(0)		0.205
40029	4	max	0.075	0.068	0.075	0.068	0.000	0.00(0)		0.075
40030	4	max	0.094	0.063	0.094	0.063	0.000	0.00(0)		0.094
40031	4	max	0.023	0.030	0.023	0.030	0.000	0.00(0)		0.030
40032	4	max	0.060	0.053	0.060	0.053	0.000	0.00(0)		0.060
40033	4	max	0.116	0.105	0.116	0.105	0.000	0.00(0)		0.116
40034	4	max	0.223	0.252	0.223	0.252	0.000	0.00(0)		0.252
40035	4	max	0.203	0.176	0.203	0.176	0.000	0.00(0)		0.203
40036	4	max	0.077	0.076	0.077	0.076	0.000	0.00(0)		0.077
40037	4	max	0.035	0.051	0.035	0.051	0.000	0.00(0)		0.051
40038	4	max	0.098	0.074	0.098	0.074	0.000	0.00(0)		0.098
40039	4	max	0.134	0.179	0.134	0.179	0.000	0.00(0)		0.179
40040	4	max	0.186	0.166	0.186	0.166	0.000	0.00(0)		0.186
40041	4	max	0.165	0.189	0.165	0.189	0.000	0.00(0)		0.189
40042	4	max	0.487	0.432	0.487	0.432	0.000	0.00(0)		0.487
40043	4	max	0.278	0.326	0.278	0.326	0.000	0.00(0)		0.326
40044	5	max	0.442	0.395	0.442	0.395	0.000	0.00(0)		0.442
40045	4	max	0.279	0.339	0.279	0.339	0.000	0.00(0)		0.339
40046	4	max	0.278	0.269	0.278	0.269	0.000	0.00(0)		0.278
40047	4	max	0.254	0.276	0.254	0.276	0.000	0.00(0)		0.276
40048	4	max	0.388	0.366	0.388	0.366	0.000	0.00(0)		0.388
40049	4	max	0.403	0.512	0.403	0.512	0.000	0.00(0)		0.512
40050	4	max	0.378	0.297	0.378	0.297	0.000	0.00(0)		0.378
40051	4	max	0.359	0.465	0.359	0.465	0.000	0.00(0)		0.465
40052	4	max	0.212	0.247	0.212	0.247	0.000	0.00(0)		0.247
40053	4	max	0.200	0.170	0.200	0.170	0.000	0.00(0)		0.200
40054	4	max	0.443	0.528	0.443	0.528	0.000	0.00(0)		0.528
40055	4	max	0.316	0.271	0.316	0.271	0.000	0.00(0)		0.316
40056	5	max	0.367	0.447	0.367	0.447	0.000	0.00(0)		0.447
40057	5	max	0.358	0.444	0.358	0.444	0.000	0.00(0)		0.444
40058	4	max	0.415	0.518	0.415	0.518	0.000	0.00(0)		0.518
40059	4	max	0.383	0.306	0.383	0.306	0.000	0.00(0)		0.383
40060	4	max	0.371	0.471	0.371	0.471	0.000	0.00(0)		0.471
40061	4	max	0.325	0.262	0.325	0.262	0.000	0.00(0)		0.325
40062	4	max	0.309	0.391	0.309	0.391	0.000	0.00(0)		0.391
40063	4	max	0.262	0.216	0.262	0.216	0.000	0.00(0)		0.262
40064	4	max	0.241	0.300	0.241	0.300	0.000	0.00(0)		0.300
40065	4	max	0.191	0.158	0.191	0.158	0.000	0.00(0)		0.191

Steel - Resistance of Cross Sections

Utilisation Level

Truss	SNo	LC	$\sigma_{-n,c}$	$\sigma_{-n,t}$	σ_{-x}	σ_{+x}	τ	c/t	c/t-lim	σ_{-v}
40066	4	max	0.160	0.204	0.160	0.204	0.000	0.00(0)		0.204
40067	4	max	0.075	0.067	0.075	0.067	0.000	0.00(0)		0.075
40068	4	max	0.092	0.066	0.092	0.066	0.000	0.00(0)		0.092
40069	4	max	0.022	0.029	0.022	0.029	0.000	0.00(0)		0.029
40070	4	max	0.057	0.053	0.057	0.053	0.000	0.00(0)		0.057
40071	4	max	0.112	0.104	0.112	0.104	0.000	0.00(0)		0.112
40072	4	max	0.321	0.254	0.321	0.254	0.000	0.00(0)		0.321
40073	4	max	0.299	0.387	0.299	0.387	0.000	0.00(0)		0.387
40074	4	max	0.254	0.202	0.254	0.202	0.000	0.00(0)		0.254
40075	4	max	0.233	0.300	0.233	0.300	0.000	0.00(0)		0.300
40076	4	max	0.191	0.153	0.191	0.153	0.000	0.00(0)		0.191
40077	4	max	0.155	0.203	0.155	0.203	0.000	0.00(0)		0.203
40078	4	max	0.074	0.065	0.074	0.065	0.000	0.00(0)		0.074
40079	4	max	0.093	0.064	0.093	0.064	0.000	0.00(0)		0.093
40080	4	max	0.022	0.028	0.022	0.028	0.000	0.00(0)		0.028
40081	4	max	0.054	0.052	0.054	0.052	0.000	0.00(0)		0.054
40082	4	max	0.109	0.099	0.109	0.099	0.000	0.00(0)		0.109
40083	4	max	0.208	0.247	0.208	0.247	0.000	0.00(0)		0.247
40084	4	max	0.199	0.167	0.199	0.167	0.000	0.00(0)		0.199
40085	4	max	0.434	0.526	0.434	0.526	0.000	0.00(0)		0.526
40086	4	max	0.314	0.266	0.314	0.266	0.000	0.00(0)		0.314
40087	4	max	0.459	0.535	0.459	0.535	0.000	0.00(0)		0.535
40088	4	max	0.319	0.280	0.319	0.280	0.000	0.00(0)		0.319
40089	5	max	0.374	0.451	0.374	0.451	0.000	0.00(0)		0.451
40090	4	max	0.423	0.523	0.423	0.523	0.000	0.00(0)		0.523
40091	4	max	0.373	0.402	0.373	0.402	0.000	0.00(0)		0.402
40092	4	max	0.478	0.438	0.478	0.438	0.000	0.00(0)		0.478
40093	4	max	0.321	0.352	0.321	0.352	0.000	0.00(0)		0.352
40094	4	max	0.303	0.274	0.303	0.274	0.000	0.00(0)		0.303
40095	4	max	0.239	0.298	0.239	0.298	0.000	0.00(0)		0.298
40096	4	max	0.190	0.156	0.190	0.156	0.000	0.00(0)		0.190
40097	4	max	0.162	0.206	0.162	0.206	0.000	0.00(0)		0.206
40098	4	max	0.073	0.062	0.073	0.062	0.000	0.00(0)		0.073
40099	4	max	0.097	0.076	0.097	0.076	0.000	0.00(0)		0.097
40100	4	max	0.017	0.020	0.017	0.020	0.000	0.00(0)		0.020
40101	4	max	0.041	0.042	0.041	0.042	0.000	0.00(0)		0.042
40102	4	max	0.132	0.132	0.132	0.132	0.000	0.00(0)		0.132
40103	4	max	0.263	0.257	0.263	0.257	0.000	0.00(0)		0.263
40104	4	max	0.203	0.192	0.203	0.192	0.000	0.00(0)		0.203
40105	4	max	0.502	0.536	0.502	0.536	0.000	0.00(0)		0.536
40106	4	max	0.317	0.294	0.317	0.294	0.000	0.00(0)		0.317
40107	5	max	0.395	0.449	0.395	0.449	0.000	0.00(0)		0.449
40108	4	max	0.224	0.203	0.224	0.203	0.000	0.00(0)		0.224
40109	4	max	0.336	0.302	0.336	0.302	0.000	0.00(0)		0.336
40110	4	max	0.196	0.223	0.196	0.223	0.000	0.00(0)		0.223
40111	4	max	0.418	0.522	0.418	0.522	0.000	0.00(0)		0.522
40112	4	max	0.387	0.310	0.387	0.310	0.000	0.00(0)		0.387
40113	4	max	0.384	0.485	0.384	0.485	0.000	0.00(0)		0.485
40114	4	max	0.334	0.270	0.334	0.270	0.000	0.00(0)		0.334
40115	4	max	0.330	0.413	0.330	0.413	0.000	0.00(0)		0.413
40116	4	max	0.299	0.244	0.299	0.244	0.000	0.00(0)		0.299
40117	4	max	0.234	0.294	0.234	0.294	0.000	0.00(0)		0.294
40118	4	max	0.187	0.154	0.187	0.154	0.000	0.00(0)		0.187
40119	4	max	0.158	0.203	0.158	0.203	0.000	0.00(0)		0.203
40120	4	max	0.449	0.518	0.449	0.518	0.000	0.00(0)		0.518
40121	4	max	0.384	0.332	0.384	0.332	0.000	0.00(0)		0.384
40122	4	max	0.423	0.477	0.423	0.477	0.000	0.00(0)		0.477
40123	4	max	0.329	0.297	0.329	0.297	0.000	0.00(0)		0.329

Steel - Resistance of Cross Sections

Utilisation Level

Truss	SNo	LC	$\sigma-n,c$	$\sigma-n,t$	$\sigma-x$	$\sigma+x$	τ	c/t	c/t-lim	$\sigma-v$
40124	4	max	0.071	0.063	0.071	0.063	0.000	0.00(0)		0.071
40125	4	max	0.098	0.072	0.098	0.072	0.000	0.00(0)		0.098
40126	4	max	0.015	0.022	0.015	0.022	0.000	0.00(0)		0.022
40127	4	max	0.043	0.038	0.043	0.038	0.000	0.00(0)		0.043
40128	4	max	0.129	0.115	0.129	0.115	0.000	0.00(0)		0.129
40129	4	max	0.227	0.265	0.227	0.265	0.000	0.00(0)		0.265
40130	4	max	0.205	0.175	0.205	0.175	0.000	0.00(0)		0.205
40131	4	max	0.454	0.542	0.454	0.542	0.000	0.00(0)		0.542
40132	4	max	0.318	0.272	0.318	0.272	0.000	0.00(0)		0.318
40133	5	max	0.369	0.450	0.369	0.450	0.000	0.00(0)		0.450
40134	4	max	0.231	0.299	0.231	0.299	0.000	0.00(0)		0.299
40135	4	max	0.299	0.237	0.299	0.237	0.000	0.00(0)		0.299
40136	4	max	0.269	0.331	0.269	0.331	0.000	0.00(0)		0.331
40137	4	max	0.215	0.178	0.215	0.178	0.000	0.00(0)		0.215
40138	4	max	0.179	0.223	0.179	0.223	0.000	0.00(0)		0.223
40139	4	max	0.088	0.080	0.088	0.080	0.000	0.00(0)		0.088
40140	4	max	0.087	0.061	0.087	0.061	0.000	0.00(0)		0.087
40141	4	max	0.037	0.041	0.037	0.041	0.000	0.00(0)		0.041
40142	4	max	0.079	0.078	0.079	0.078	0.000	0.00(0)		0.079
40143	4	max	0.140	0.122	0.140	0.122	0.000	0.00(0)		0.140
40144	4	max	0.156	0.183	0.156	0.183	0.000	0.00(0)		0.183
40145	4	max	0.181	0.154	0.181	0.154	0.000	0.00(0)		0.181
40146	4	max	0.396	0.473	0.396	0.473	0.000	0.00(0)		0.473
40147	4	max	0.304	0.262	0.304	0.262	0.000	0.00(0)		0.304
40148	5	max	0.356	0.432	0.356	0.432	0.000	0.00(0)		0.432
40149	4	max	0.386	0.481	0.386	0.481	0.000	0.00(0)		0.481
40150	4	max	0.354	0.284	0.354	0.284	0.000	0.00(0)		0.354
40151	4	max	0.316	0.404	0.316	0.404	0.000	0.00(0)		0.404
40152	4	max	0.281	0.225	0.281	0.225	0.000	0.00(0)		0.281
40153	4	max	0.003	0.013	0.003	0.013	0.000	0.00(0)		0.013
40154	4	max	0.032	0.027	0.032	0.027	0.000	0.00(0)		0.032
40155	4	max	0.051	0.048	0.051	0.048	0.000	0.00(0)		0.051
40156	5	max	0.049	0.063	0.049	0.063	0.000	0.00(0)		0.063
40157	4	max	0.037	0.058	0.037	0.058	0.000	0.00(0)		0.058
40158	4	max	0.038	0.020	0.038	0.020	0.000	0.00(0)		0.038
40159	4	max	0.003	0.035	0.003	0.035	0.000	0.00(0)		0.035
40160	4	max	0.028	0.024	0.028	0.024	0.000	0.00(0)		0.028
40161	4	max	0.102	0.081	0.102	0.081	0.000	0.00(0)		0.102
40162	4	max	0.091	0.064	0.091	0.064	0.000	0.00(0)		0.091
40163	4	max	0.000	0.028	0.000	0.028	0.000	0.00(0)		0.028
40164	4	max	0.070	0.049	0.070	0.049	0.000	0.00(0)		0.070
40165	4	max	0.030	0.048	0.030	0.048	0.000	0.00(0)		0.048
40166	4	max	0.036	0.030	0.036	0.030	0.000	0.00(0)		0.036
40167	4	max	0.055	0.069	0.055	0.069	0.000	0.00(0)		0.069
40168	4	max	0.084	0.066	0.084	0.066	0.000	0.00(0)		0.084
40169	4	max	0.016	0.022	0.016	0.022	0.000	0.00(0)		0.022
40170	4	max	0.085	0.066	0.085	0.066	0.000	0.00(0)		0.085
40171	4	max	0.099	0.059	0.099	0.059	0.000	0.00(0)		0.099
80001	8	max	0.023	0.015	0.023	0.015	0.000	0.00(0)		0.023
80002	8	max	0.015	0.027	0.015	0.027	0.000	0.00(0)		0.027
80003	8	max	0.048	0.039	0.048	0.039	0.000	0.00(0)		0.048
80004	8	max	0.026	0.032	0.026	0.032	0.000	0.00(0)		0.032
80005	8	max	0.044	0.026	0.044	0.026	0.000	0.00(0)		0.044
80006	8	max	0.032	0.035	0.032	0.035	0.000	0.00(0)		0.035
80007	8	max	0.038	0.021	0.038	0.021	0.000	0.00(0)		0.038
80008	8	max	0.035	0.035	0.035	0.035	0.000	0.00(0)		0.035
80009	8	max	0.035	0.018	0.035	0.018	0.000	0.00(0)		0.035
80010	8	max	0.037	0.037	0.037	0.037	0.000	0.00(0)		0.037

Steel - Resistance of Cross Sections

Utilisation Level

Truss	SNo	LC	$\sigma_{-n,c}$	$\sigma_{-n,t}$	σ_{-x}	σ_{+x}	τ	c/t	c/t-lim	$\sigma-v$
80011	8	max	0.033	0.017	0.033	0.017	0.000	0.00(0)		0.033
80012	8	max	0.043	0.041	0.043	0.041	0.000	0.00(0)		0.043
80013	8	max	0.028	0.013	0.028	0.013	0.000	0.00(0)		0.028
80014	8	max	0.049	0.046	0.049	0.046	0.000	0.00(0)		0.049
80015	8	max	0.016	0.004	0.016	0.004	0.000	0.00(0)		0.016
80016	8	max	0.024	0.025	0.024	0.025	0.000	0.00(0)		0.025
90001	7	max	0.016	0.012	0.016	0.012	0.000	0.00(0)		0.016
90002	7	max	0.026	0.039	0.026	0.039	0.000	0.00(0)		0.039
90003	7	max	0.029	0.016	0.029	0.016	0.000	0.00(0)		0.029
90004	7	max	0.030	0.030	0.030	0.030	0.000	0.00(0)		0.030
90005	7	max	0.023	0.009	0.023	0.009	0.000	0.00(0)		0.023
90006	7	max	0.004	0.014	0.004	0.014	0.000	0.00(0)		0.014
100001	9	max	0.056	0.051	0.056	0.051	0.000	0.00(0)		0.056
100002	9	max	0.092	0.075	0.092	0.075	0.000	0.00(0)		0.092
100003	9	max	0.018	0.027	0.018	0.027	0.000	0.00(0)		0.027
100004	9	max	0.000	0.009	0.000	0.009	0.000	0.00(0)		0.009
100005	9	max	0.099	0.102	0.099	0.102	0.000	0.00(0)		0.102
100006	9	max	0.022	0.018	0.022	0.018	0.000	0.00(0)		0.022
100007	9	max	0.071	0.061	0.071	0.061	0.000	0.00(0)		0.071
100008	9	max	0.046	0.048	0.046	0.048	0.000	0.00(0)		0.048
100009	9	max	0.036	0.040	0.036	0.040	0.000	0.00(0)		0.040
100010	9	max	0.094	0.099	0.094	0.099	0.000	0.00(0)		0.099
100011	9	max	0.048	0.051	0.048	0.051	0.000	0.00(0)		0.051
100012	9	max	0.068	0.043	0.068	0.043	0.000	0.00(0)		0.068
100013	9	max	0.072	0.063	0.072	0.063	0.000	0.00(0)		0.072
100014	9	max	0.105	0.103	0.105	0.103	0.000	0.00(0)		0.105
100015	9	max	0.065	0.043	0.065	0.043	0.000	0.00(0)		0.065
100016	9	max	0.083	0.075	0.083	0.075	0.000	0.00(0)		0.083
100017	9	max	0.093	0.061	0.093	0.061	0.000	0.00(0)		0.093
100018	9	max	0.078	0.057	0.078	0.057	0.000	0.00(0)		0.078
100019	9	max	0.065	0.085	0.065	0.085	0.000	0.00(0)		0.085
100020	9	max	0.031	0.022	0.031	0.022	0.000	0.00(0)		0.031
100021	9	max	0.095	0.089	0.095	0.089	0.000	0.00(0)		0.095
100022	9	max	0.047	0.040	0.047	0.040	0.000	0.00(0)		0.047
100023	9	max	0.042	0.038	0.042	0.038	0.000	0.00(0)		0.042
100024	9	max	0.061	0.057	0.061	0.057	0.000	0.00(0)		0.061
100025	9	max	0.030	0.015	0.030	0.015	0.000	0.00(0)		0.030
100026	9	max	0.098	0.089	0.098	0.089	0.000	0.00(0)		0.098
100027	9	max	0.012	0.009	0.012	0.009	0.000	0.00(0)		0.012
100028	9	max	0.016	0.006	0.016	0.006	0.000	0.00(0)		0.016
100029	9	max	0.085	0.087	0.085	0.087	0.000	0.00(0)		0.087
100030	9	max	0.051	0.056	0.051	0.056	0.000	0.00(0)		0.056
100031	9	max	0.059	0.066	0.059	0.066	0.000	0.00(0)		0.066
100032	9	max	0.029	0.015	0.029	0.015	0.000	0.00(0)		0.029
100033	9	max	0.039	0.047	0.039	0.047	0.000	0.00(0)		0.047
100034	9	max	0.052	0.032	0.052	0.032	0.000	0.00(0)		0.052
100035	9	max	0.037	0.044	0.037	0.044	0.000	0.00(0)		0.044
100036	9	max	0.058	0.037	0.058	0.037	0.000	0.00(0)		0.058
100037	9	max	0.065	0.057	0.065	0.057	0.000	0.00(0)		0.065
100038	9	max	0.098	0.070	0.098	0.070	0.000	0.00(0)		0.098
100039	9	max	0.058	0.048	0.058	0.048	0.000	0.00(0)		0.058
100040	9	max	0.111	0.084	0.111	0.084	0.000	0.00(0)		0.111
100041	9	max	0.071	0.057	0.071	0.057	0.000	0.00(0)		0.071
100042	9	max	0.098	0.076	0.098	0.076	0.000	0.00(0)		0.098
100043	9	max	0.050	0.029	0.050	0.029	0.000	0.00(0)		0.050
100044	9	max	0.122	0.117	0.122	0.117	0.000	0.00(0)		0.122
100045	9	max	0.066	0.038	0.066	0.038	0.000	0.00(0)		0.066
100046	9	max	0.092	0.113	0.092	0.113	0.000	0.00(0)		0.113

Utilisation Level

SOFISTIK AG - www.sofistik.de

	N	Vy	Vz	My	Mz	Mtp	Mts	Mb	Ncr	SCL	Total
	$\sigma-x$	$\sigma+x$	τ	$\sigma-v$	$\sigma-s$	$\sigma-dyn$	As-l	As-v	crack	c/t	
Section 4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	-	0.542
SH 40 x 40 x 2.5	0.502	0.542	0.000	0.542	-	-	-	-	-	-	
Section 5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	-	0.451
SH 60 x 60 x 3	0.442	0.451	0.000	0.451	-	-	-	-	-	-	
Section 7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	-	0.039
SH 90 x 90 x 4	0.030	0.039	0.000	0.039	-	-	-	-	-	-	
Section 8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	-	0.049
SH 60 x 60 x 3	0.049	0.046	0.000	0.049	-	-	-	-	-	-	
Section 9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	-	0.122
SH 40 x 40 x 2.5	0.122	0.117	0.000	0.122	-	-	-	-	-	-	
Section 10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	-	0.375
L 40 x 3	0.375	0.269	0.000	0.375	-	-	-	-	-	-	
Total	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	-	0.542
	0.502	0.542	0.000	0.542	-	-	-	-	-	-	

N normal force

Vy,Vz shear force

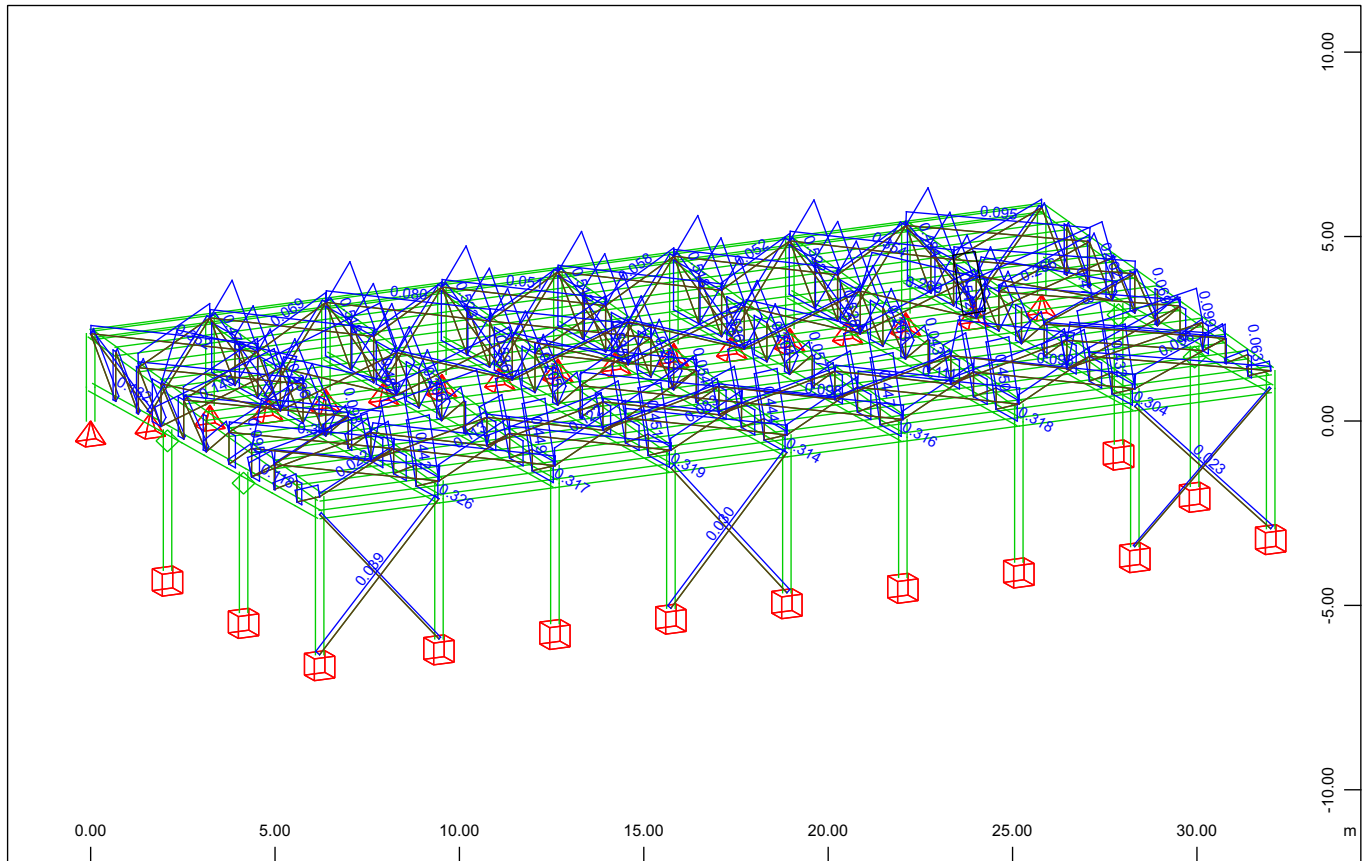
τ shear stress

$\sigma-v$ von Mises stress

Steel - Resistance of Cross Sections

My,Mz	bending	σ -s	stress in reinforcements
Mtp,Mts	torsion (p)rimary and (s)econdary	σ -dyn	stress range
Mb	warping moment	As-l	longitudinal reinforcements
Ncr	flexural buckling	As-v	shear link reinforcements
SCL	cross-section class	crack	crack width
σ -x	longitud. compressive stress	c/t	stress dependant utilisation level (see AQB Manual 2.3.2)
σ +x	longitud. tensile stress	Total	most unfavorable utilisation for all checks

Graphical Output



Truss Elements , Decisive - Total, Design Case 901 GlobalMAX SIGMA , 1 cm 3D = 0.500
(Max=0.542)

M 1 : 205
X * 0.502
Y * 0.906
Z * 0.962

resistance of beams in seismic actions

Materials

Mat	Classification	γ -M
1	S 235 (EN 1993)	1.00

Selected Beam Elements

Selection	NoA	NoE	x[m]	Type
Grp 1	10001			
Grp 2	20001			
Grp 3	30001			
Grp 6	60001			
Grp 7	70001			
NoA, NoE range of element numbers				
x[m] x-ordinate of beam section or station on axis				
Type element type				

Considered Load Cases

LC	ACT	REF	CS	Designation	γ -u	γ -f	ψ -0	ψ -1	ψ -2	ψ -1'	SUP
1402	E			MAX N (CQC)	1.00	0.00	1.00	1.00	1.00	1.00	E USEX
1403	E			MAX Vy (CQC)	1.00	0.00	1.00	1.00	1.00	1.00	E USEX
1404	E			MAX Vz (CQC)	1.00	0.00	1.00	1.00	1.00	1.00	E USEX
1405	E			MAX Mt (CQC)	1.00	0.00	1.00	1.00	1.00	1.00	E USEX
1406	E			MAX My (CQC)	1.00	0.00	1.00	1.00	1.00	1.00	E USEX
1407	E			MAX Mz (CQC)	1.00	0.00	1.00	1.00	1.00	1.00	E USEX
LC load case					CS section the load case is acting on						
ACT action					SUP action type, group and superposition category						
REF reference point for forces and moments											

Elastic Stress Check

Combinations of Load Cases

Maximum results are saved to load case 902 GlobalMAX SIGMA

Maximum Stresses and Checked Limits

Mat	Check or Criterion		Value	Limit	Unit	Level	LC	Beam	x[m]
1	Centric compression	σ -n,c	2.14	235.00	MPa	0.009	1404	30001	0.000
	Centric tension	σ -n,t	2.14	235.00	MPa	0.009	1402	30001	0.000
	Longitud. compressive stress	σ -x	22.78	235.00	MPa	0.097	1403	10018	0.000
	Longitud. tensile stress	σ +x	23.21	235.00	MPa	0.099	1403	10018	0.000
	Shear stress	τ	2.00	135.68	MPa	0.015	1402	10002	0.000
	Von Mises stress	σ -v	23.28	235.00	MPa	0.099	1403	10018	0.000
	Shear in weldings			207.85	MPa				
	Compression in compr. zone	σ c-0	2.14	235.00	MPa	0.009	1404	30001	0.000
	Plate slenderness c/t			1.00					

Check for stress limits passed.

Maximum Utilisation Level

	N	Vy	Vz	My	Mz	Mtp	Mts	Mb	Ncr	SCL	Total
	σ -x	σ +x	τ	σ -v	σ -s	σ -dyn	As-l	As-v	crack	c/t	
Section 1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	(1)	0.099
SH 120 x 120 x 5	0.097	0.099	0.015	0.099	-	-	-	-	-	0.048	
Section 2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	(1)	0.030
IPE 180	0.029	0.030	0.004	0.030	-	-	-	-	-	0.008	
Section 3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	(1)	0.068
SH 90 x 90 x 4	0.068	0.068	0.013	0.068	-	-	-	-	-	0.031	
Section 6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	(3) ¹	0.007
TEGIDA Z180x1.5	0.007	0.007	0.000	0.007	-	-	-	-	-	0.010	
Section 7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	(1)	0.005
SH 90 x 90 x 4	0.005	0.005	0.000	0.005	-	-	-	-	-	0.002	
Total	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	(3) ¹	0.099
	0.097	0.099	0.015	0.099	-	-	-	-	-	0.048	

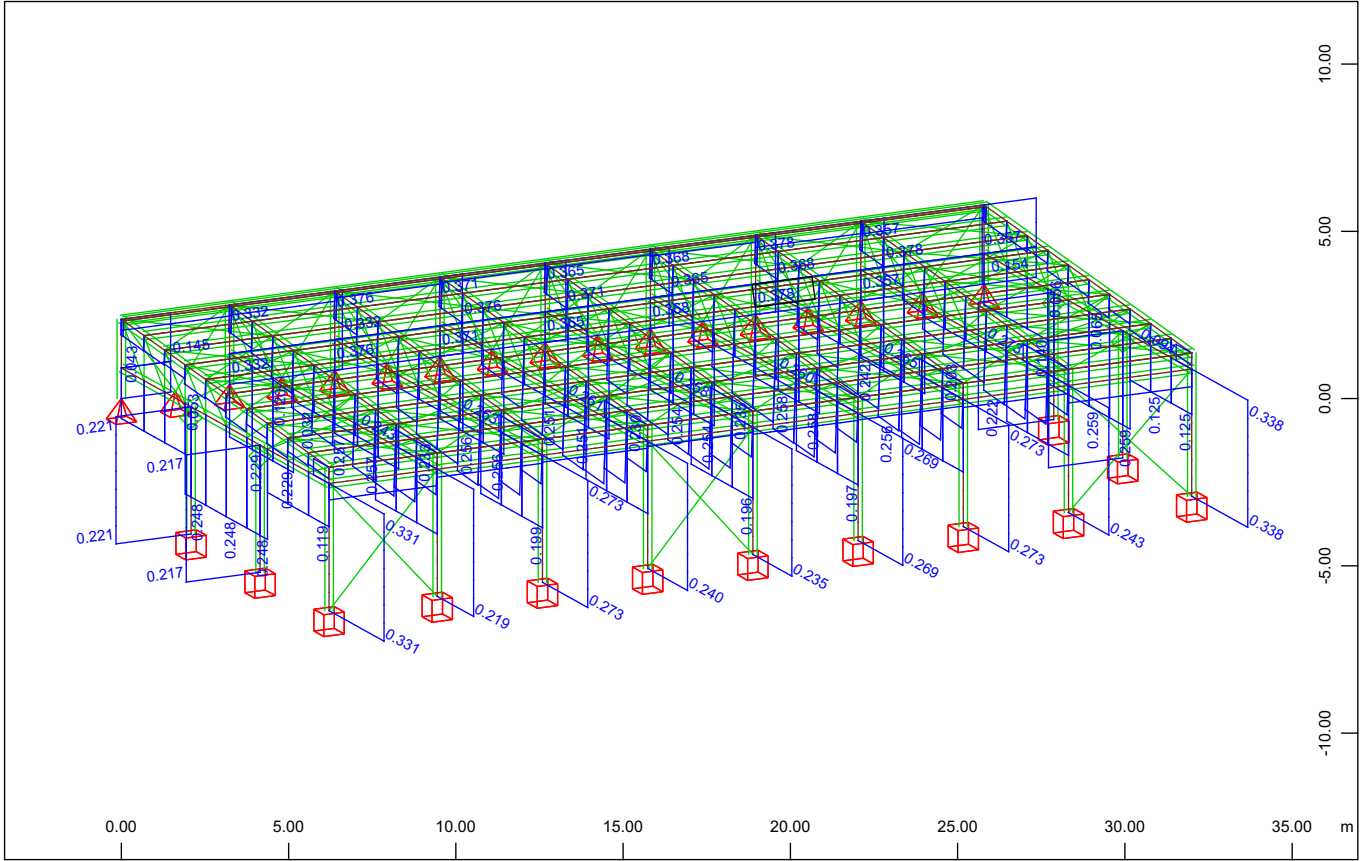
¹ Section of class 4 has small stresses allowing to be treated as class 3 (see EN 1993-1-1 5.5.2 (9))

N normal force τ shear stress
Vy, Vz shear force σ -v von Mises stress

resistance of beams in seismic actions

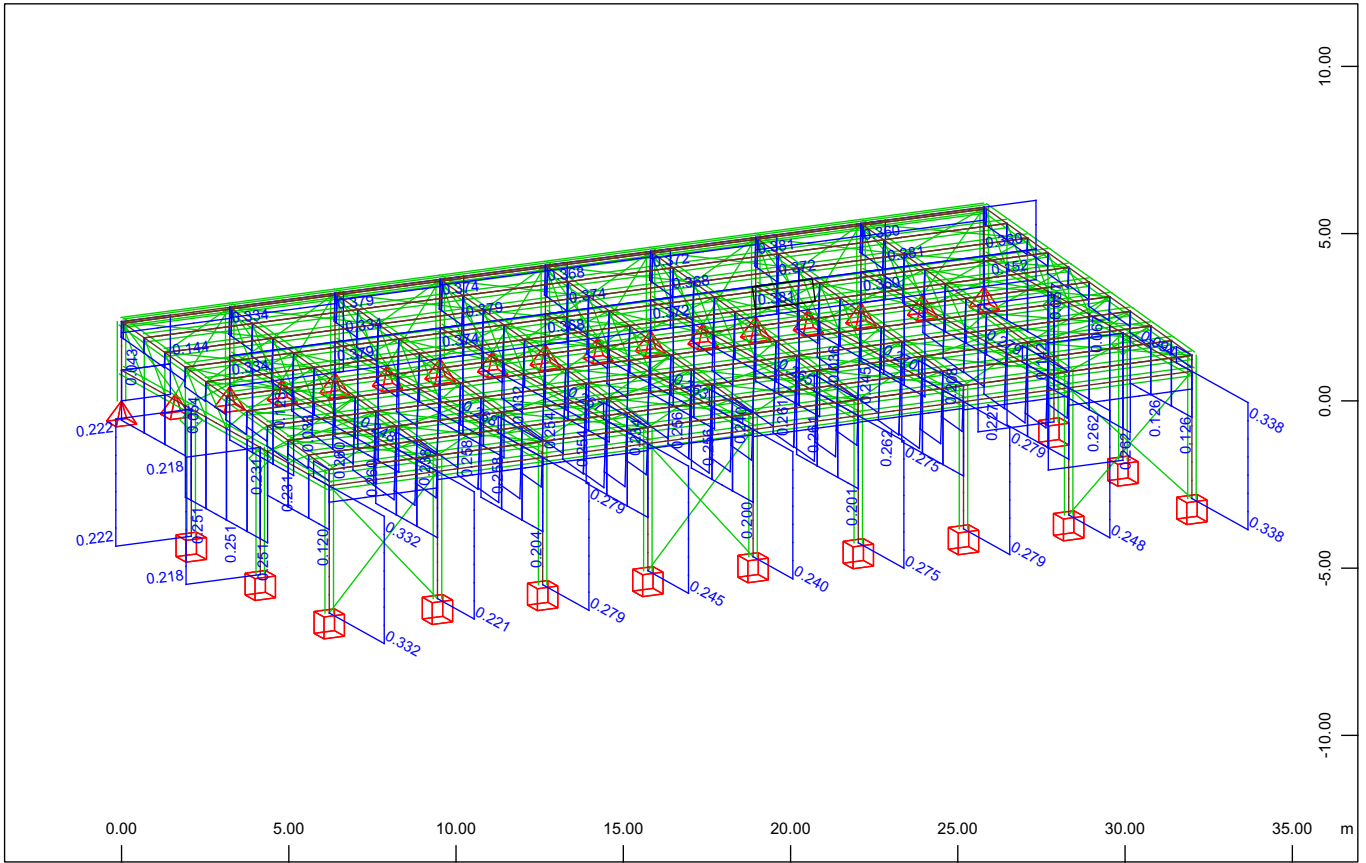
My,Mz	bending	σ -s	stress in reinforcements
Mtp,Mts	torsion (p)rimary and (s)econdary	σ -dyn	stress range
Mb	warping moment	As-l	longitudinal reinforcements
Ncr	flexural buckling	As-v	shear link reinforcements
SCL	cross-section class	crack	crack width
σ -x	longitud. compressive stress	c/t	stress dependant utilisation level (see AQB Manual 2.3.2)
σ +x	longitud. tensile stress	Total	most unfavorable utilisation for all checks

Graphical Output



Z
Y
X Beam Elements , Decisive - Buckling Resistance, Design Case 1001 , 1 cm 3D = 0.200
(Max=0.378)

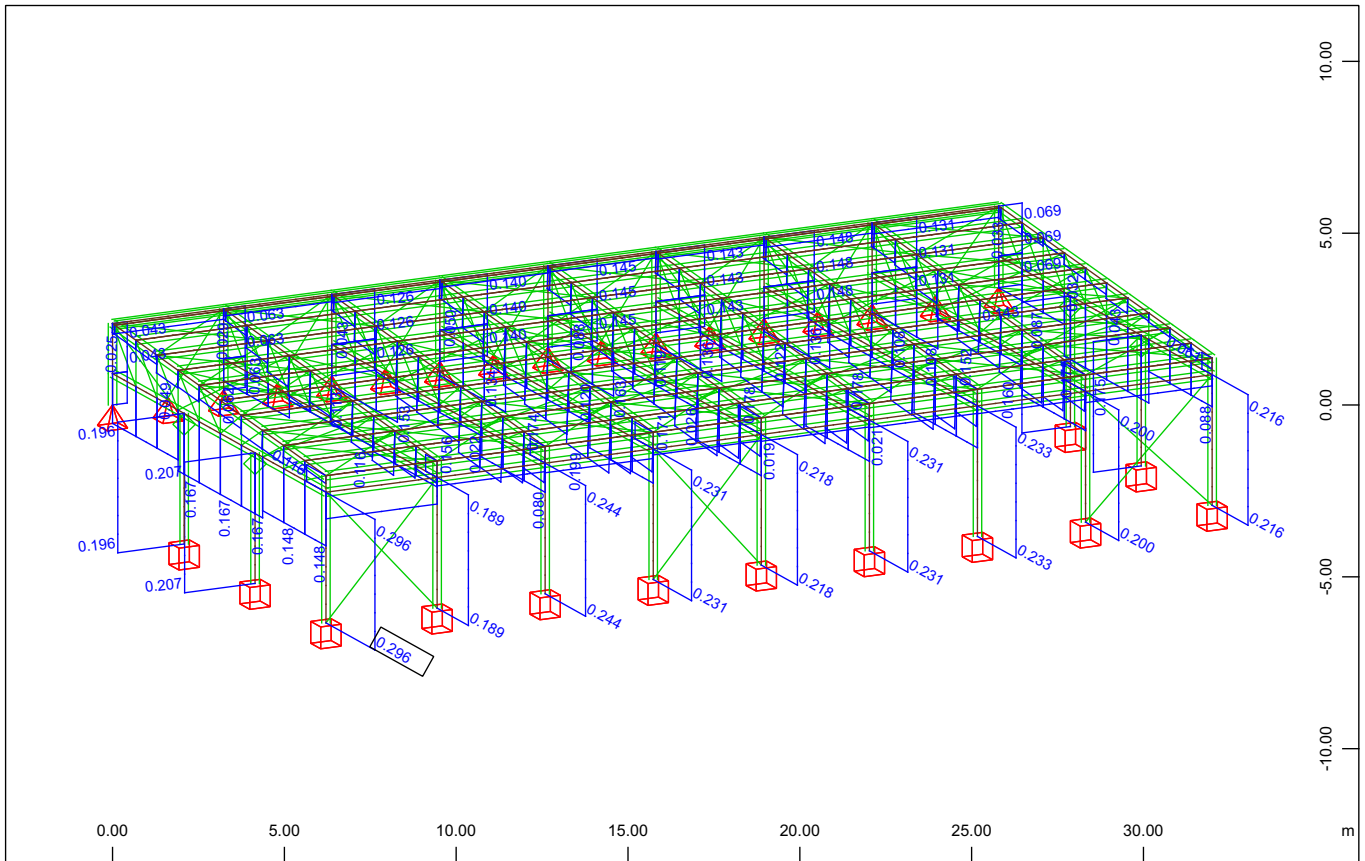
M 1 : 226
X * 0.502
Y * 0.906
Z * 0.962



Z
Y
X Beam Elements , Decisive - Buckling Resistance, Design Case 1002 , 1 cm 3D = 0.200
(Max=0.381)

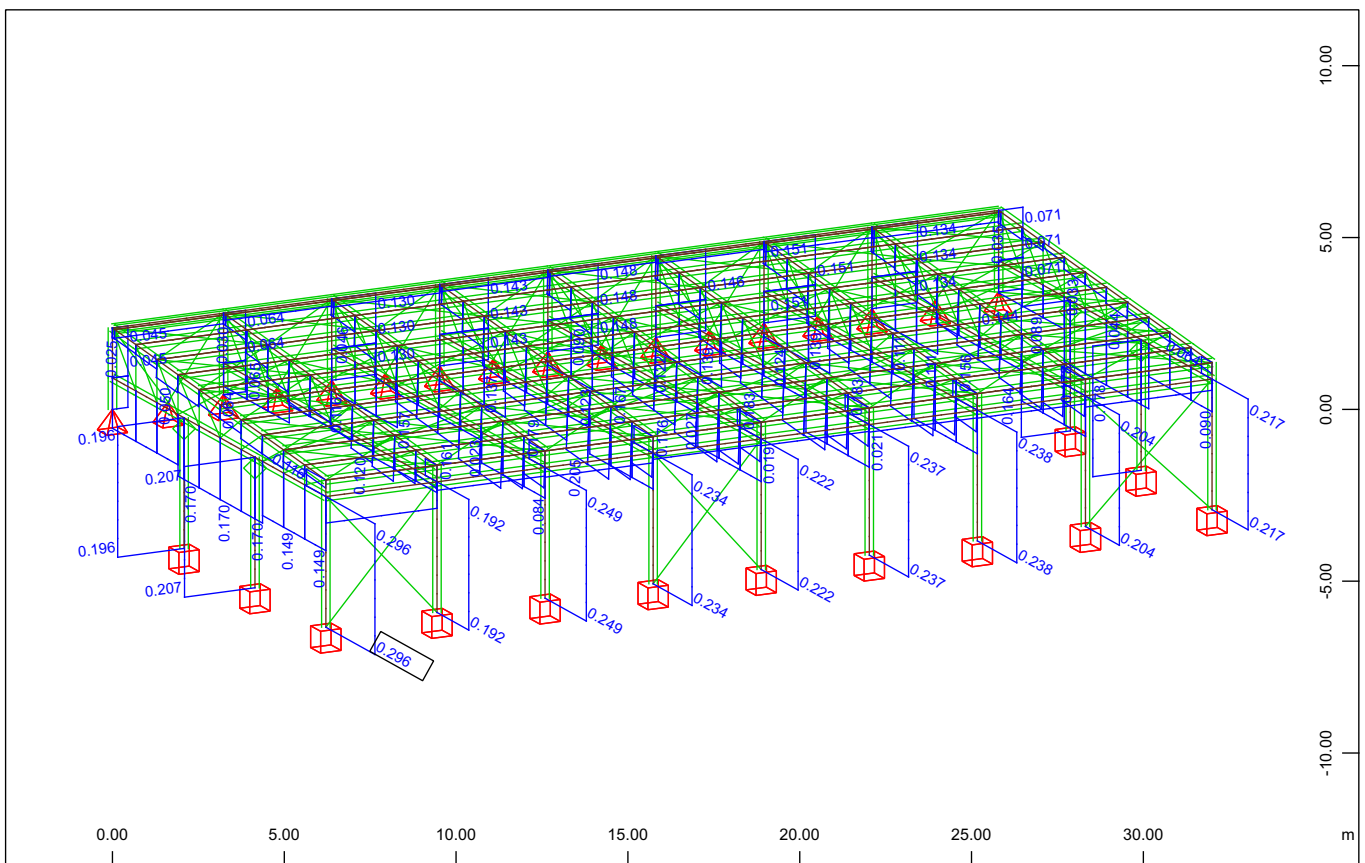
M 1 : 226
X * 0.502
Y * 0.906
Z * 0.962

Graphical Output



Beam Elements , Decisive - Buckling Resistance, Design Case 1003 , 1 cm 3D = 0.200
 (Max=0.296)

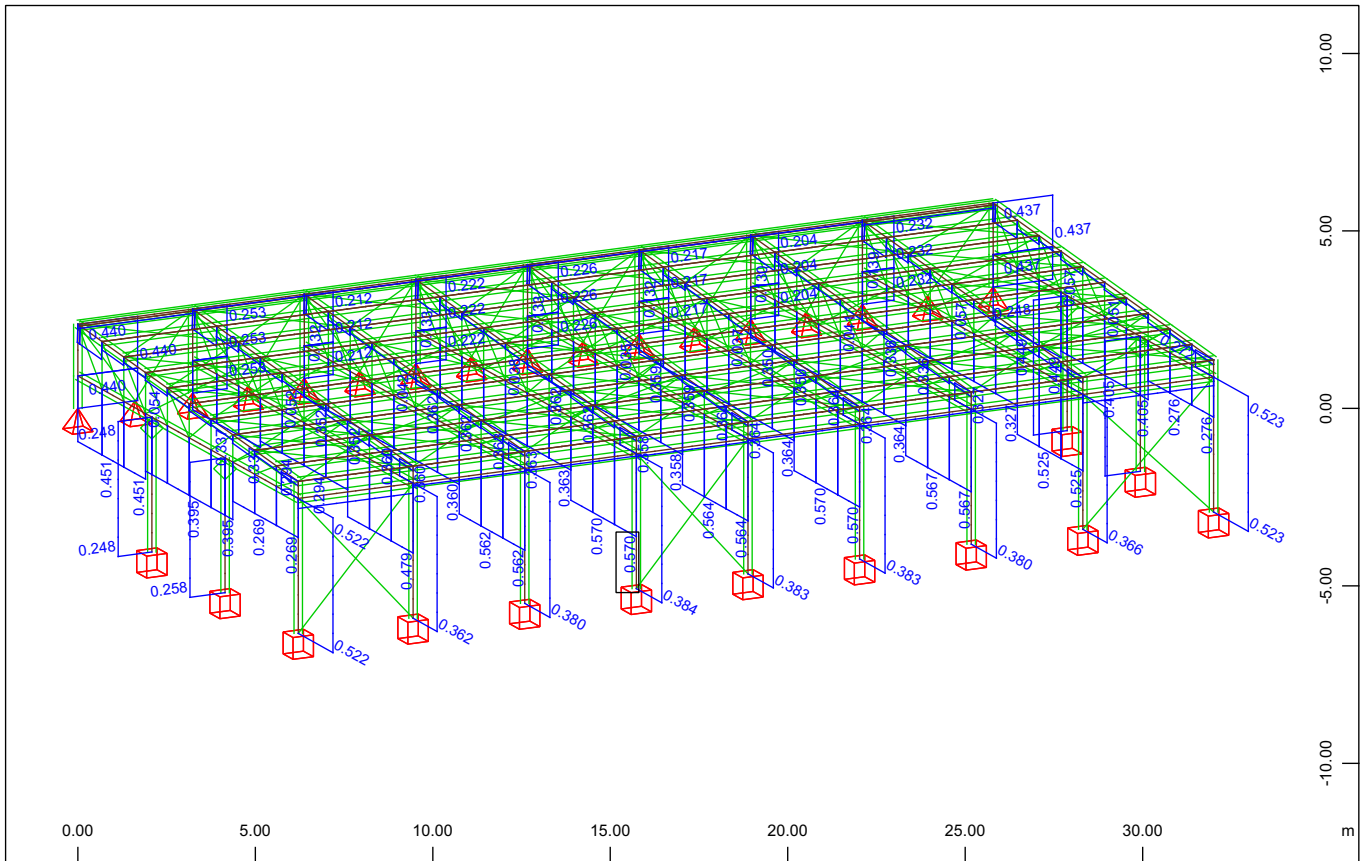
M 1 : 220
 X * 0.502
 Y * 0.906
 Z * 0.962



Beam Elements , Decisive - Buckling Resistance, Design Case 1004 , 1 cm 3D = 0.200
 (Max=0.296)

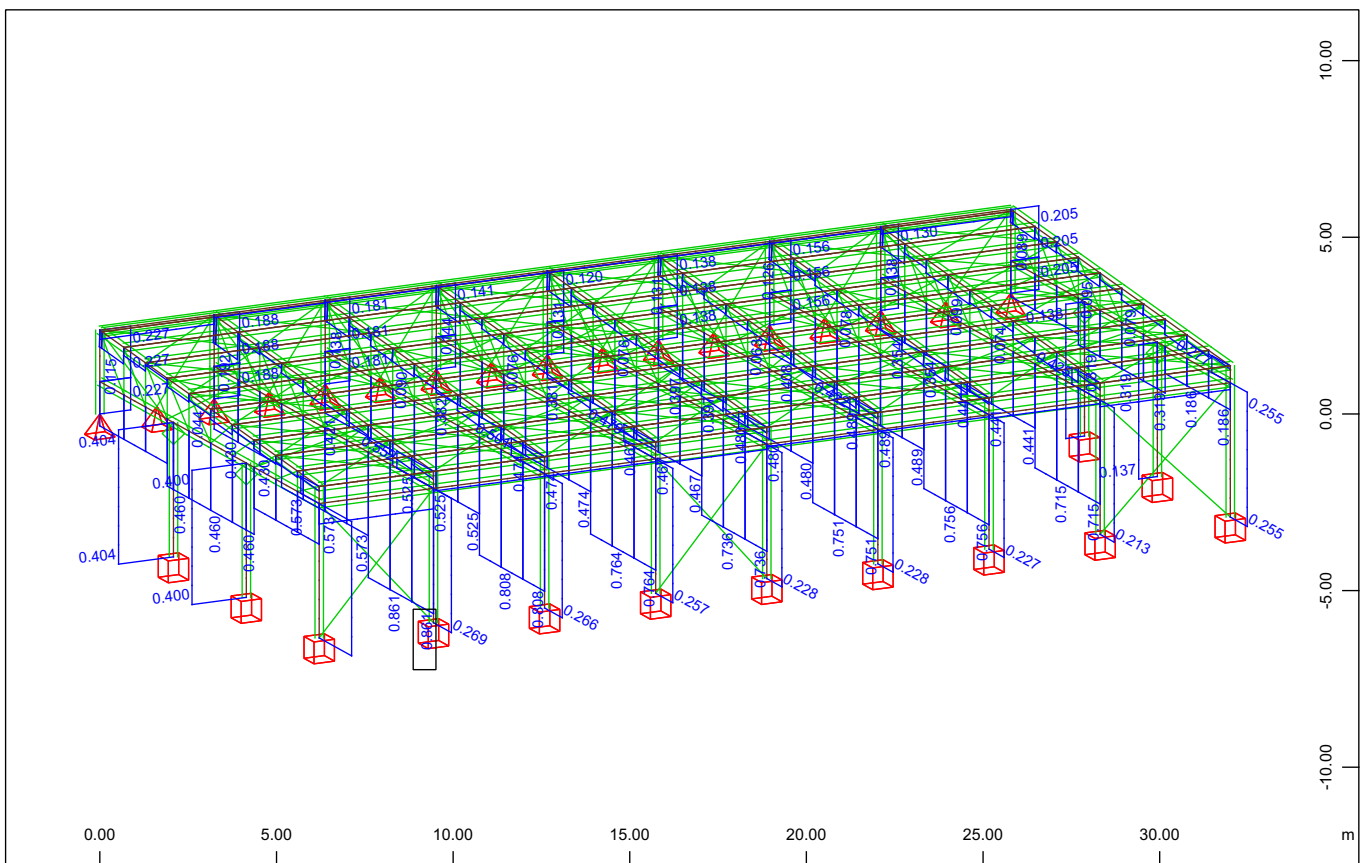
M 1 : 220
 X * 0.502
 Y * 0.906
 Z * 0.962

Graphical Output



Beam Elements , Decisive - Buckling Resistance, Design Case 1005 , 1 cm 3D = 0.500
 (Max=0.570)

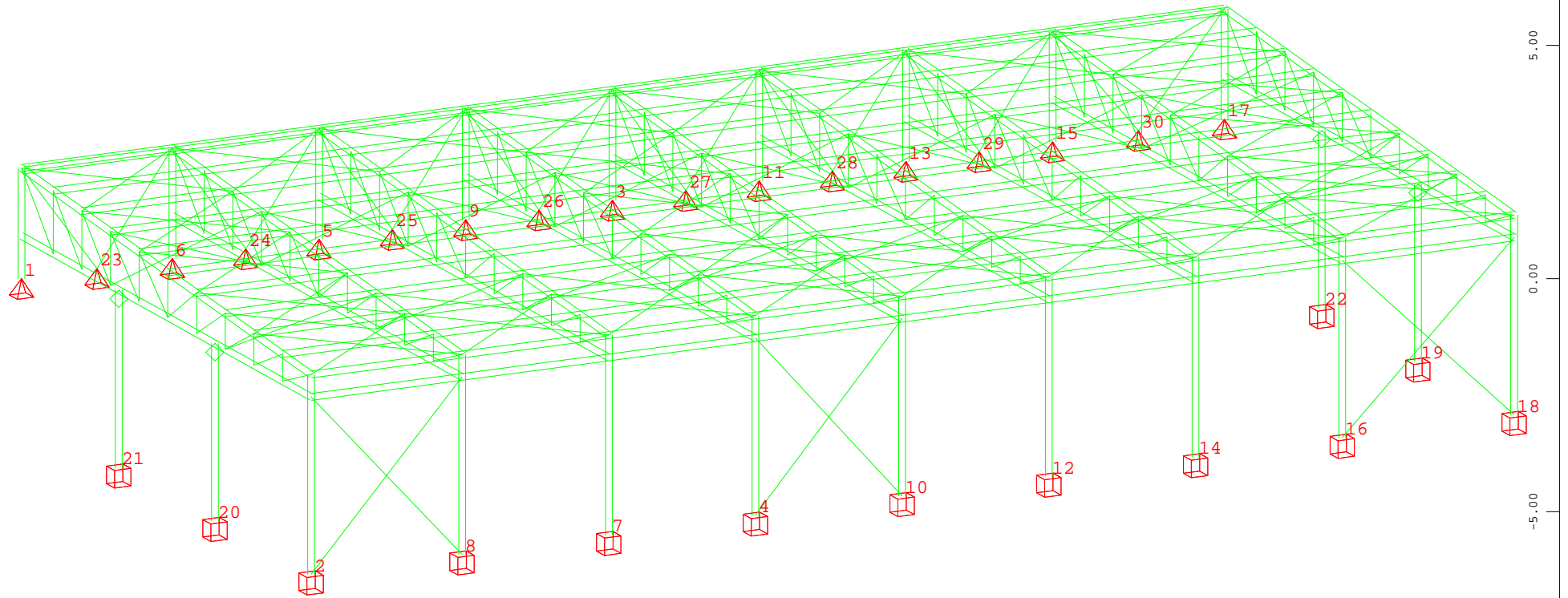
M 1 : 213
 X * 0.502
 Y * 0.906
 Z * 0.962



Beam Elements , Decisive - Buckling Resistance, Design Case 1006 , 1 cm 3D = 0.500
 (Max=0.861)

M 1 : 214
 X * 0.502
 Y * 0.906
 Z * 0.962

ΚΟΜΒΟΙ ΘΕΜΕΛΙΩΣΗΣ



0.00

5.00

10.00

15.00

20.00

25.00

30.00

m

Z
Y
X

Numbers of fixed nodes (Max=30)

M 1 : 130

X * 0.502

Y * 0.906

Z * 0.962

*** Μ Ε Μ Ο Ν Ω Μ Ε Ν Α Θ Ε Μ Ε Λ Ι Α ***

1. Node no	2.	Bx = 1.50	By = 2.00	Hz = 1.00	C25	S500	Gk = 75.000
LC no 2251	N=	0.808	Vx= 4.352	Vy= 2.294	Mx= -1.866	My= 5.293	
A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])							
ex = 0.07	ey = 0.03	Bx' = 1.36	By' = 1.95	A' = 2.646			
σE = 200.000	i = 0.908						
Rnd = 961.604	> NFd = 100.442						==> O.K.
B. Έλεγχος Ολίσθησης (ΕΑΚ 5.2.3.2.β)							
Rsd = 57.990	> Vsd = 4.920						==> O.K.
LC no 2252	N=	-2.305	Vx= -3.304	Vy= -4.038	Mx= 2.088	My= -2.520	
A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])							
ex = 0.03	ey = 0.03	Bx' = 1.43	By' = 1.95	A' = 2.792			
σE = 200.000	i = 0.907						
Rnd = 1012.746	> NFd = 103.555						==> O.K.
B. Έλεγχος Ολίσθησης (ΕΑΚ 5.2.3.2.β)							
Rsd = 59.787	> Vsd = 5.218						==> O.K.
LC no 2253	N=	9.174	Vx= 3.618	Vy= 5.804	Mx= -1.882	My= 3.696	
A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])							
ex = 0.06	ey = 0.03	Bx' = 1.39	By' = 1.94	A' = 2.696			
σE = 200.000	i = 0.858						
Rnd = 924.891	> NFd = 92.076						==> O.K.
B. Έλεγχος Ολίσθησης (ΕΑΚ 5.2.3.2.β)							
Rsd = 53.160	> Vsd = 6.839						==> O.K.
LC no 2254	N=	-10.672	Vx= -2.570	Vy= -7.548	Mx= 2.105	My= -0.923	
A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])							
ex = 0.01	ey = 0.02	Bx' = 1.48	By' = 1.95	A' = 2.884			
σE = 200.000	i = 0.872						
Rnd = 1006.225	> NFd = 111.922						==> O.K.
B. Έλεγχος Ολίσθησης (ΕΑΚ 5.2.3.2.β)							
Rsd = 64.618	> Vsd = 7.974						==> O.K.
LC no 2255	N=	13.023	Vx= -1.021	Vy= 4.924	Mx= -0.028	My= -2.210	
A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])							
ex = 0.04	ey = 0.00	Bx' = 1.43	By' = 2.00	A' = 2.856			
σE = 200.000	i = 0.888						
Rnd = 1014.819	> NFd = 88.227						==> O.K.
B. Έλεγχος Ολίσθησης (ΕΑΚ 5.2.3.2.β)							
Rsd = 50.938	> Vsd = 5.028						==> O.K.
LC no 2256	N=	-10.672	Vx= -2.570	Vy= -7.548	Mx= 2.105	My= -0.923	
A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])							
ex = 0.01	ey = 0.02	Bx' = 1.48	By' = 1.95	A' = 2.884			
σE = 200.000	i = 0.872						
Rnd = 1006.225	> NFd = 111.922						==> O.K.
B. Έλεγχος Ολίσθησης (ΕΑΚ 5.2.3.2.β)							
Rsd = 64.618	> Vsd = 7.974						==> O.K.
LC no 2259	N=	0.808	Vx= 4.352	Vy= 2.294	Mx= -1.866	My= 5.293	
A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])							
ex = 0.07	ey = 0.03	Bx' = 1.36	By' = 1.95	A' = 2.646			
σE = 200.000	i = 0.908						
Rnd = 961.604	> NFd = 100.442						==> O.K.
B. Έλεγχος Ολίσθησης (ΕΑΚ 5.2.3.2.β)							
Rsd = 57.990	> Vsd = 4.920						==> O.K.
LC no 2260	N=	-2.305	Vx= -3.304	Vy= -4.038	Mx= 2.088	My= -2.520	
A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])							
ex = 0.03	ey = 0.03	Bx' = 1.43	By' = 1.95	A' = 2.792			
σE = 200.000	i = 0.907						
Rnd = 1012.746	> NFd = 103.555						==> O.K.
B. Έλεγχος Ολίσθησης (ΕΑΚ 5.2.3.2.β)							
Rsd = 59.787	> Vsd = 5.218						==> O.K.
LC no 2261	N=	0.808	Vx= 4.352	Vy= 2.294	Mx= -1.866	My= 5.293	
A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])							
ex = 0.07	ey = 0.03	Bx' = 1.36	By' = 1.95	A' = 2.646			
σE = 200.000	i = 0.908						
Rnd = 961.604	> NFd = 100.442						==> O.K.
B. Έλεγχος Ολίσθησης (ΕΑΚ 5.2.3.2.β)							
Rsd = 57.990	> Vsd = 4.920						==> O.K.
LC no 2262	N=	-2.305	Vx= -3.304	Vy= -4.038	Mx= 2.088	My= -2.520	
A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])							
ex = 0.03	ey = 0.03	Bx' = 1.43	By' = 1.95	A' = 2.792			
σE = 200.000	i = 0.907						
Rnd = 1012.746	> NFd = 103.555						==> O.K.
B. Έλεγχος Ολίσθησης (ΕΑΚ 5.2.3.2.β)							
Rsd = 59.787	> Vsd = 5.218						==> O.K.

2. Node no 4. Bx = 1.50 By = 2.00 Hz = 1.00 C25 S500 Gk = 75.000

LC no 2251 N= -7.621 vx= 7.881 vy= -1.314 Mx= -0.005 My= 8.451
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 ex = 0.10 ey = 0.00 Bx' = 1.30 By' = 2.00 A' = 2.591
 σE = 200.000 i = 0.867
 RNd = 898.753 > NFd = 108.871 ==> O.K.
 B. Έλεγχος Ολίσθησης (ΕΑΚ 5.2.3.2.β)
 Rsd = 62.857 > Vsd = 7.990 ==> O.K.

LC no 2252 N= 8.949 vx= -7.471 vy= 0.698 Mx= -0.002 My= -6.088
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 ex = 0.09 ey = 0.00 Bx' = 1.32 By' = 2.00 A' = 2.631
 σE = 200.000 i = 0.845
 RNd = 888.988 > NFd = 92.301 ==> O.K.
 B. Έλεγχος Ολίσθησης (ΕΑΚ 5.2.3.2.β)
 Rsd = 53.290 > Vsd = 7.504 ==> O.K.

LC no 2253 N= 35.838 vx= -3.208 vy= 5.459 Mx= 0.001 My= -5.189
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 ex = 0.13 ey = 0.00 Bx' = 1.24 By' = 2.00 A' = 2.470
 σE = 200.000 i = 0.781
 RNd = 771.826 > NFd = 65.412 ==> O.K.
 B. Έλεγχος Ολίσθησης (ΕΑΚ 5.2.3.2.β)
 Rsd = 37.765 > Vsd = 6.332 ==> O.K.

LC no 2254 N= -16.261 vx= -5.131 vy= -3.207 Mx= -0.003 My= -2.302
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 ex = 0.03 ey = 0.00 Bx' = 1.45 By' = 2.00 A' = 2.899
 σE = 200.000 i = 0.908
 RNd = 1053.409 > NFd = 117.511 ==> O.K.
 B. Έλεγχος Ολίσθησης (ΕΑΚ 5.2.3.2.β)
 Rsd = 67.845 > Vsd = 6.051 ==> O.K.

LC no 2255 N= 35.838 vx= -3.208 vy= 5.459 Mx= 0.001 My= -5.189
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 ex = 0.13 ey = 0.00 Bx' = 1.24 By' = 2.00 A' = 2.470
 σE = 200.000 i = 0.781
 RNd = 771.826 > NFd = 65.412 ==> O.K.
 B. Έλεγχος Ολίσθησης (ΕΑΚ 5.2.3.2.β)
 Rsd = 37.765 > Vsd = 6.332 ==> O.K.

LC no 2256 N= -16.261 vx= -5.131 vy= -3.207 Mx= -0.003 My= -2.302
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 ex = 0.03 ey = 0.00 Bx' = 1.45 By' = 2.00 A' = 2.899
 σE = 200.000 i = 0.908
 RNd = 1053.409 > NFd = 117.511 ==> O.K.
 B. Έλεγχος Ολίσθησης (ΕΑΚ 5.2.3.2.β)
 Rsd = 67.845 > Vsd = 6.051 ==> O.K.

LC no 2259 N= -7.621 vx= 7.881 vy= -1.314 Mx= -0.005 My= 8.451
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 ex = 0.10 ey = 0.00 Bx' = 1.30 By' = 2.00 A' = 2.591
 σE = 200.000 i = 0.867
 RNd = 898.753 > NFd = 108.871 ==> O.K.
 B. Έλεγχος Ολίσθησης (ΕΑΚ 5.2.3.2.β)
 Rsd = 62.857 > Vsd = 7.990 ==> O.K.

LC no 2260 N= 8.949 vx= -7.471 vy= 0.698 Mx= -0.002 My= -6.088
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 ex = 0.09 ey = 0.00 Bx' = 1.32 By' = 2.00 A' = 2.631
 σE = 200.000 i = 0.845
 RNd = 888.988 > NFd = 92.301 ==> O.K.
 B. Έλεγχος Ολίσθησης (ΕΑΚ 5.2.3.2.β)
 Rsd = 53.290 > Vsd = 7.504 ==> O.K.

LC no 2261 N= 35.838 vx= -3.208 vy= 5.459 Mx= 0.001 My= -5.189
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 ex = 0.13 ey = 0.00 Bx' = 1.24 By' = 2.00 A' = 2.470
 σE = 200.000 i = 0.781
 RNd = 771.826 > NFd = 65.412 ==> O.K.
 B. Έλεγχος Ολίσθησης (ΕΑΚ 5.2.3.2.β)
 Rsd = 37.765 > Vsd = 6.332 ==> O.K.

LC no 2262 N= -7.621 vx= 7.881 vy= -1.314 Mx= -0.005 My= 8.451
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 ex = 0.10 ey = 0.00 Bx' = 1.30 By' = 2.00 A' = 2.591
 σE = 200.000 i = 0.867
 RNd = 898.753 > NFd = 108.871 ==> O.K.
 B. Έλεγχος Ολίσθησης (ΕΑΚ 5.2.3.2.β)
 Rsd = 62.857 > Vsd = 7.990 ==> O.K.

3. Node no 7. Bx = 1.50 By = 2.00 Hz = 1.00 C25 S500 Gk = 75.000

themel

LC no	2251	N=	-8.134	Vx=	7.826	Vy=	0.008	Mx=	-0.011	My=	8.338
A.	Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (EAK 5.2.3.2.α και Z.6[2])	ex =	0.10	ey =	0.00	Bx' =	1.30	By' =	2.00	A' =	2.598
		σE =	200.000	i =	0.871						
		RNd =	905.034	>	NFd =	109.384	==>	O.K.			
B.	Έλεγχος Ολίσθησης (EAK 5.2.3.2.β)	Rsd =	63.153	>	Vsd =	7.826	==>	O.K.			
LC no	2252	N=	9.425	Vx=	-7.338	Vy=	0.001	Mx=	0.000	My=	-5.890
A.	Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (EAK 5.2.3.2.α και Z.6[2])	ex =	0.09	ey =	0.00	Bx' =	1.32	By' =	2.00	A' =	2.641
		σE =	200.000	i =	0.847						
		RNd =	894.585	>	NFd =	91.825	==>	O.K.			
B.	Έλεγχος Ολίσθησης (EAK 5.2.3.2.β)	Rsd =	53.015	>	Vsd =	7.338	==>	O.K.			
LC no	2253	N=	-8.134	Vx=	7.826	Vy=	0.008	Mx=	-0.011	My=	8.338
A.	Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (EAK 5.2.3.2.α και Z.6[2])	ex =	0.10	ey =	0.00	Bx' =	1.30	By' =	2.00	A' =	2.598
		σE =	200.000	i =	0.871						
		RNd =	905.034	>	NFd =	109.384	==>	O.K.			
B.	Έλεγχος Ολίσθησης (EAK 5.2.3.2.β)	Rsd =	63.153	>	Vsd =	7.826	==>	O.K.			
LC no	2254	N=	34.862	Vx=	-3.128	Vy=	-0.004	Mx=	0.005	My=	-5.031
A.	Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (EAK 5.2.3.2.α και Z.6[2])	ex =	0.13	ey =	0.00	Bx' =	1.25	By' =	2.00	A' =	2.498
		σE =	200.000	i =	0.893						
		RNd =	892.049	>	NFd =	66.388	==>	O.K.			
B.	Έλεγχος Ολίσθησης (EAK 5.2.3.2.β)	Rsd =	38.329	>	Vsd =	3.128	==>	O.K.			
LC no	2255	N=	34.862	Vx=	-3.128	Vy=	-0.004	Mx=	0.005	My=	-5.031
A.	Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (EAK 5.2.3.2.α και Z.6[2])	ex =	0.13	ey =	0.00	Bx' =	1.25	By' =	2.00	A' =	2.498
		σE =	200.000	i =	0.893						
		RNd =	892.049	>	NFd =	66.388	==>	O.K.			
B.	Έλεγχος Ολίσθησης (EAK 5.2.3.2.β)	Rsd =	38.329	>	Vsd =	3.128	==>	O.K.			
LC no	2256	N=	-15.469	Vx=	-5.052	Vy=	0.004	Mx=	-0.003	My=	-2.214
A.	Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (EAK 5.2.3.2.α και Z.6[2])	ex =	0.02	ey =	0.00	Bx' =	1.45	By' =	2.00	A' =	2.902
		σE =	200.000	i =	0.923						
		RNd =	1071.079	>	NFd =	116.719	==>	O.K.			
B.	Έλεγχος Ολίσθησης (EAK 5.2.3.2.β)	Rsd =	67.388	>	Vsd =	5.052	==>	O.K.			
LC no	2259	N=	-8.134	Vx=	7.826	Vy=	0.008	Mx=	-0.011	My=	8.338
A.	Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (EAK 5.2.3.2.α και Z.6[2])	ex =	0.10	ey =	0.00	Bx' =	1.30	By' =	2.00	A' =	2.598
		σE =	200.000	i =	0.871						
		RNd =	905.034	>	NFd =	109.384	==>	O.K.			
B.	Έλεγχος Ολίσθησης (EAK 5.2.3.2.β)	Rsd =	63.153	>	Vsd =	7.826	==>	O.K.			
LC no	2260	N=	9.425	Vx=	-7.338	Vy=	0.001	Mx=	0.000	My=	-5.890
A.	Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (EAK 5.2.3.2.α και Z.6[2])	ex =	0.09	ey =	0.00	Bx' =	1.32	By' =	2.00	A' =	2.641
		σE =	200.000	i =	0.847						
		RNd =	894.585	>	NFd =	91.825	==>	O.K.			
B.	Έλεγχος Ολίσθησης (EAK 5.2.3.2.β)	Rsd =	53.015	>	Vsd =	7.338	==>	O.K.			
LC no	2261	N=	34.862	Vx=	-3.128	Vy=	-0.004	Mx=	0.005	My=	-5.031
A.	Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (EAK 5.2.3.2.α και Z.6[2])	ex =	0.13	ey =	0.00	Bx' =	1.25	By' =	2.00	A' =	2.498
		σE =	200.000	i =	0.893						
		RNd =	892.049	>	NFd =	66.388	==>	O.K.			
B.	Έλεγχος Ολίσθησης (EAK 5.2.3.2.β)	Rsd =	38.329	>	Vsd =	3.128	==>	O.K.			
LC no	2262	N=	-8.134	Vx=	7.826	Vy=	0.008	Mx=	-0.011	My=	8.338
A.	Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (EAK 5.2.3.2.α και Z.6[2])	ex =	0.10	ey =	0.00	Bx' =	1.30	By' =	2.00	A' =	2.598
		σE =	200.000	i =	0.871						
		RNd =	905.034	>	NFd =	109.384	==>	O.K.			
B.	Έλεγχος Ολίσθησης (EAK 5.2.3.2.β)	Rsd =	63.153	>	Vsd =	7.826	==>	O.K.			

4. Node no 8. Bx = 1.50 By = 2.00 HZ = 1.00 c25 s500 Gk = 75.000

LC no	2251	N=	-7.428	Vx=	7.627	Vy=	1.393	Mx=	-0.005	My=	8.027
A.	Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (EAK 5.2.3.2.α και Z.6[2])	ex =	0.10	ey =	0.00	Bx' =	1.31	By' =	2.00	A' =	2.610

theme1

$\sigma E = 200.000$ $i = 0.871$
 $Rnd = 909.262 > NFD = 108.678 \implies O.K.$
 B. Έλεγχος ολίσθησης (ΕΑΚ 5.2.3.2.β)
 $Rsd = 62.745 > Vsd = 7.753 \implies O.K.$

LC no 2252 $N = 7.676$ $v_x = -6.943$ $v_y = -2.442$ $M_x = 0.007$ $M_y = -5.338$
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 $ex = 0.08$ $ey = 0.00$ $Bx' = 1.34$ $By' = 2.00$ $A' = 2.683$
 $\sigma E = 200.000$ $i = 0.850$
 $Rnd = 912.467 > NFD = 93.574 \implies O.K.$
 B. Έλεγχος ολίσθησης (ΕΑΚ 5.2.3.2.β)
 $Rsd = 54.025 > Vsd = 7.360 \implies O.K.$

LC no 2253 $N = -7.428$ $v_x = 7.627$ $v_y = 1.393$ $M_x = -0.005$ $M_y = 8.027$
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 $ex = 0.10$ $ey = 0.00$ $Bx' = 1.31$ $By' = 2.00$ $A' = 2.610$
 $\sigma E = 200.000$ $i = 0.871$
 $Rnd = 909.262 > NFD = 108.678 \implies O.K.$
 B. Έλεγχος ολίσθησης (ΕΑΚ 5.2.3.2.β)
 $Rsd = 62.745 > Vsd = 7.753 \implies O.K.$

LC no 2254 $N = 7.676$ $v_x = -6.943$ $v_y = -2.442$ $M_x = 0.007$ $M_y = -5.338$
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 $ex = 0.08$ $ey = 0.00$ $Bx' = 1.34$ $By' = 2.00$ $A' = 2.683$
 $\sigma E = 200.000$ $i = 0.850$
 $Rnd = 912.467 > NFD = 93.574 \implies O.K.$
 B. Έλεγχος ολίσθησης (ΕΑΚ 5.2.3.2.β)
 $Rsd = 54.025 > Vsd = 7.360 \implies O.K.$

LC no 2255 $N = 28.303$ $v_x = -2.666$ $v_y = -0.835$ $M_x = -0.013$ $M_y = -4.392$
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 $ex = 0.09$ $ey = 0.00$ $Bx' = 1.31$ $By' = 2.00$ $A' = 2.623$
 $\sigma E = 200.000$ $i = 0.917$
 $Rnd = 962.415 > NFD = 72.947 \implies O.K.$
 B. Έλεγχος ολίσθησης (ΕΑΚ 5.2.3.2.β)
 $Rsd = 42.116 > Vsd = 2.794 \implies O.K.$

LC no 2256 $N = -12.098$ $v_x = -4.991$ $v_y = -1.941$ $M_x = 0.017$ $M_y = -2.126$
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 $ex = 0.02$ $ey = 0.00$ $Bx' = 1.45$ $By' = 2.00$ $A' = 2.902$
 $\sigma E = 200.000$ $i = 0.915$
 $Rnd = 1062.051 > NFD = 113.348 \implies O.K.$
 B. Έλεγχος ολίσθησης (ΕΑΚ 5.2.3.2.β)
 $Rsd = 65.441 > Vsd = 5.355 \implies O.K.$

LC no 2259 $N = -7.428$ $v_x = 7.627$ $v_y = 1.393$ $M_x = -0.005$ $M_y = 8.027$
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 $ex = 0.10$ $ey = 0.00$ $Bx' = 1.31$ $By' = 2.00$ $A' = 2.610$
 $\sigma E = 200.000$ $i = 0.871$
 $Rnd = 909.262 > NFD = 108.678 \implies O.K.$
 B. Έλεγχος ολίσθησης (ΕΑΚ 5.2.3.2.β)
 $Rsd = 62.745 > Vsd = 7.753 \implies O.K.$

LC no 2260 $N = 7.676$ $v_x = -6.943$ $v_y = -2.442$ $M_x = 0.007$ $M_y = -5.338$
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 $ex = 0.08$ $ey = 0.00$ $Bx' = 1.34$ $By' = 2.00$ $A' = 2.683$
 $\sigma E = 200.000$ $i = 0.850$
 $Rnd = 912.467 > NFD = 93.574 \implies O.K.$
 B. Έλεγχος ολίσθησης (ΕΑΚ 5.2.3.2.β)
 $Rsd = 54.025 > Vsd = 7.360 \implies O.K.$

LC no 2261 $N = -12.098$ $v_x = -4.991$ $v_y = -1.941$ $M_x = 0.017$ $M_y = -2.126$
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 $ex = 0.02$ $ey = 0.00$ $Bx' = 1.45$ $By' = 2.00$ $A' = 2.902$
 $\sigma E = 200.000$ $i = 0.915$
 $Rnd = 1062.051 > NFD = 113.348 \implies O.K.$
 B. Έλεγχος ολίσθησης (ΕΑΚ 5.2.3.2.β)
 $Rsd = 65.441 > Vsd = 5.355 \implies O.K.$

LC no 2262 $N = 12.346$ $v_x = 5.675$ $v_y = 0.892$ $M_x = -0.016$ $M_y = 4.814$
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 $ex = 0.08$ $ey = 0.00$ $Bx' = 1.35$ $By' = 2.00$ $A' = 2.692$
 $\sigma E = 200.000$ $i = 0.874$
 $Rnd = 941.140 > NFD = 88.904 \implies O.K.$
 B. Έλεγχος ολίσθησης (ΕΑΚ 5.2.3.2.β)
 $Rsd = 51.329 > Vsd = 5.745 \implies O.K.$

5. Node no 10. $B_x = 1.50$ $B_y = 2.00$ $H_z = 1.00$ C25 S500 $G_k = 75.000$

LC no 2251 $N = -7.732$ $v_x = 7.879$ $v_y = 1.408$ $M_x = -0.001$ $M_y = 8.452$
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 $ex = 0.10$ $ey = 0.00$ $Bx' = 1.30$ $By' = 2.00$ $A' = 2.591$
 $\sigma E = 200.000$ $i = 0.867$
 $Rnd = 898.909 > NFD = 108.982 \implies O.K.$
 B. Έλεγχος ολίσθησης (ΕΑΚ 5.2.3.2.β)

theme1

Rsd = 62.921 > Vsd = 8.003 ==> O.K.

LC no 2252 N= 13.555 vx= -5.040 vy= -2.585 Mx= 0.000 My= -4.286
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 ex = 0.07 ey = 0.00 Bx' = 1.36 By' = 2.00 A' = 2.721
 σE = 200.000 i = 0.873
 Rnd = 950.554 > NFd = 87.695 ==> O.K.
 B. Έλεγχος Ολίσθησης (ΕΑΚ 5.2.3.2.β)
 Rsd = 50.631 > Vsd = 5.665 ==> O.K.

LC no 2253 N= -7.732 vx= 7.879 vy= 1.408 Mx= -0.001 My= 8.452
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 ex = 0.10 ey = 0.00 Bx' = 1.30 By' = 2.00 A' = 2.591
 σE = 200.000 i = 0.867
 Rnd = 898.909 > NFd = 108.982 ==> O.K.
 B. Έλεγχος Ολίσθησης (ΕΑΚ 5.2.3.2.β)
 Rsd = 62.921 > Vsd = 8.003 ==> O.K.

LC no 2254 N= 35.261 vx= -3.178 vy= -5.417 Mx= 0.007 My= -5.157
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 ex = 0.13 ey = 0.00 Bx' = 1.24 By' = 2.00 A' = 2.480
 σE = 200.000 i = 0.786
 Rnd = 779.825 > NFd = 65.989 ==> O.K.
 B. Έλεγχος Ολίσθησης (ΕΑΚ 5.2.3.2.β)
 Rsd = 38.099 > Vsd = 6.281 ==> O.K.

LC no 2255 N= 35.261 vx= -3.178 vy= -5.417 Mx= 0.007 My= -5.157
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 ex = 0.13 ey = 0.00 Bx' = 1.24 By' = 2.00 A' = 2.480
 σE = 200.000 i = 0.786
 Rnd = 779.825 > NFd = 65.989 ==> O.K.
 B. Έλεγχος Ολίσθησης (ΕΑΚ 5.2.3.2.β)
 Rsd = 38.099 > Vsd = 6.281 ==> O.K.

LC no 2256 N= -11.218 vx= -2.722 vy= 1.284 Mx= -0.005 My= -0.523
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 ex = 0.01 ey = 0.00 Bx' = 1.49 By' = 2.00 A' = 2.976
 σE = 200.000 i = 0.951
 Rnd = 1132.469 > NFd = 112.468 ==> O.K.
 B. Έλεγχος Ολίσθησης (ΕΑΚ 5.2.3.2.β)
 Rsd = 64.933 > Vsd = 3.009 ==> O.K.

LC no 2259 N= -7.732 vx= 7.879 vy= 1.408 Mx= -0.001 My= 8.452
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 ex = 0.10 ey = 0.00 Bx' = 1.30 By' = 2.00 A' = 2.591
 σE = 200.000 i = 0.867
 Rnd = 898.909 > NFd = 108.982 ==> O.K.
 B. Έλεγχος Ολίσθησης (ΕΑΚ 5.2.3.2.β)
 Rsd = 62.921 > Vsd = 8.003 ==> O.K.

LC no 2260 N= 35.261 vx= -3.178 vy= -5.417 Mx= 0.007 My= -5.157
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 ex = 0.13 ey = 0.00 Bx' = 1.24 By' = 2.00 A' = 2.480
 σE = 200.000 i = 0.786
 Rnd = 779.825 > NFd = 65.989 ==> O.K.
 B. Έλεγχος Ολίσθησης (ΕΑΚ 5.2.3.2.β)
 Rsd = 38.099 > Vsd = 6.281 ==> O.K.

LC no 2261 N= -11.218 vx= -2.722 vy= 1.284 Mx= -0.005 My= -0.523
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 ex = 0.01 ey = 0.00 Bx' = 1.49 By' = 2.00 A' = 2.976
 σE = 200.000 i = 0.951
 Rnd = 1132.469 > NFd = 112.468 ==> O.K.
 B. Έλεγχος Ολίσθησης (ΕΑΚ 5.2.3.2.β)
 Rsd = 64.933 > Vsd = 3.009 ==> O.K.

LC no 2262 N= 35.261 vx= -3.178 vy= -5.417 Mx= 0.007 My= -5.157
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 ex = 0.13 ey = 0.00 Bx' = 1.24 By' = 2.00 A' = 2.480
 σE = 200.000 i = 0.786
 Rnd = 779.825 > NFd = 65.989 ==> O.K.
 B. Έλεγχος Ολίσθησης (ΕΑΚ 5.2.3.2.β)
 Rsd = 38.099 > Vsd = 6.281 ==> O.K.

6. Node no 12. Bx = 1.50 By = 2.00 Hz = 1.00 c25 s500 Gk = 75.000

LC no 2251 N= -8.330 vx= 7.880 vy= -0.004 Mx= 0.006 My= 8.438
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 ex = 0.10 ey = 0.00 Bx' = 1.30 By' = 2.00 A' = 2.595
 σE = 200.000 i = 0.870
 Rnd = 903.157 > NFd = 109.580 ==> O.K.
 B. Έλεγχος Ολίσθησης (ΕΑΚ 5.2.3.2.β)
 Rsd = 63.266 > Vsd = 7.880 ==> O.K.

LC no 2252 N= 10.481 vx= -5.040 vy= 0.002 Mx= -0.001 My= -4.294

theme1

- A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 $ex = 0.07$ $ey = 0.00$ $Bx' = 1.37$ $By' = 2.00$ $A' = 2.734$
 $\sigma E = 200.000$ $i = 0.892$
 $RNd = 975.790 > NFd = 90.769 \implies O.K.$
 B. Έλεγχος Ολίσθησης (ΕΑΚ 5.2.3.2.β)
 $Rsd = 52.405 > Vsd = 5.040 \implies O.K.$

- LC no 2253 N= 34.689 $v_x = -3.180$ $v_y = 0.003$ $m_x = -0.004$ $m_y = -5.138$
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 $ex = 0.13$ $ey = 0.00$ $Bx' = 1.25$ $By' = 2.00$ $A' = 2.490$
 $\sigma E = 200.000$ $i = 0.891$
 $RNd = 887.718 > NFd = 66.561 \implies O.K.$
 B. Έλεγχος Ολίσθησης (ΕΑΚ 5.2.3.2.β)
 $Rsd = 38.429 > Vsd = 3.180 \implies O.K.$

- LC no 2254 N= -8.330 $v_x = 7.880$ $v_y = -0.004$ $m_x = 0.006$ $m_y = 8.438$
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 $ex = 0.10$ $ey = 0.00$ $Bx' = 1.30$ $By' = 2.00$ $A' = 2.595$
 $\sigma E = 200.000$ $i = 0.870$
 $RNd = 903.157 > NFd = 109.580 \implies O.K.$
 B. Έλεγχος Ολίσθησης (ΕΑΚ 5.2.3.2.β)
 $Rsd = 63.266 > Vsd = 7.880 \implies O.K.$

- LC no 2255 N= 34.689 $v_x = -3.180$ $v_y = 0.003$ $m_x = -0.004$ $m_y = -5.138$
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 $ex = 0.13$ $ey = 0.00$ $Bx' = 1.25$ $By' = 2.00$ $A' = 2.490$
 $\sigma E = 200.000$ $i = 0.891$
 $RNd = 887.718 > NFd = 66.561 \implies O.K.$
 B. Έλεγχος Ολίσθησης (ΕΑΚ 5.2.3.2.β)
 $Rsd = 38.429 > Vsd = 3.180 \implies O.K.$

- LC no 2256 N= -14.302 $v_x = -2.714$ $v_y = 0.000$ $m_x = 0.002$ $m_y = -0.537$
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 $ex = 0.01$ $ey = 0.00$ $Bx' = 1.49$ $By' = 2.00$ $A' = 2.976$
 $\sigma E = 200.000$ $i = 0.958$
 $RNd = 1140.019 > NFd = 115.552 \implies O.K.$
 B. Έλεγχος Ολίσθησης (ΕΑΚ 5.2.3.2.β)
 $Rsd = 66.714 > Vsd = 2.714 \implies O.K.$

- LC no 2259 N= -8.330 $v_x = 7.880$ $v_y = -0.004$ $m_x = 0.006$ $m_y = 8.438$
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 $ex = 0.10$ $ey = 0.00$ $Bx' = 1.30$ $By' = 2.00$ $A' = 2.595$
 $\sigma E = 200.000$ $i = 0.870$
 $RNd = 903.157 > NFd = 109.580 \implies O.K.$
 B. Έλεγχος Ολίσθησης (ΕΑΚ 5.2.3.2.β)
 $Rsd = 63.266 > Vsd = 7.880 \implies O.K.$

- LC no 2260 N= 34.689 $v_x = -3.180$ $v_y = 0.003$ $m_x = -0.004$ $m_y = -5.138$
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 $ex = 0.13$ $ey = 0.00$ $Bx' = 1.25$ $By' = 2.00$ $A' = 2.490$
 $\sigma E = 200.000$ $i = 0.891$
 $RNd = 887.718 > NFd = 66.561 \implies O.K.$
 B. Έλεγχος Ολίσθησης (ΕΑΚ 5.2.3.2.β)
 $Rsd = 38.429 > Vsd = 3.180 \implies O.K.$

- LC no 2261 N= -14.302 $v_x = -2.714$ $v_y = 0.000$ $m_x = 0.002$ $m_y = -0.537$
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 $ex = 0.01$ $ey = 0.00$ $Bx' = 1.49$ $By' = 2.00$ $A' = 2.976$
 $\sigma E = 200.000$ $i = 0.958$
 $RNd = 1140.019 > NFd = 115.552 \implies O.K.$
 B. Έλεγχος Ολίσθησης (ΕΑΚ 5.2.3.2.β)
 $Rsd = 66.714 > Vsd = 2.714 \implies O.K.$

- LC no 2262 N= 34.689 $v_x = -3.180$ $v_y = 0.003$ $m_x = -0.004$ $m_y = -5.138$
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 $ex = 0.13$ $ey = 0.00$ $Bx' = 1.25$ $By' = 2.00$ $A' = 2.490$
 $\sigma E = 200.000$ $i = 0.891$
 $RNd = 887.718 > NFd = 66.561 \implies O.K.$
 B. Έλεγχος Ολίσθησης (ΕΑΚ 5.2.3.2.β)
 $Rsd = 38.429 > Vsd = 3.180 \implies O.K.$

7. Node no 14. $Bx = 1.50$ $By = 1.50$ $H_z = 1.00$ C25 S500 $G_k = 56.250$

- LC no 2251 N= -8.214 $v_x = 7.836$ $v_y = -0.008$ $m_x = 0.012$ $m_y = 8.341$
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 $ex = 0.13$ $ey = 0.00$ $Bx' = 1.24$ $By' = 1.50$ $A' = 1.861$
 $\sigma E = 200.000$ $i = 0.834$
 $RNd = 621.008 > NFd = 84.152 \implies O.K.$
 B. Έλεγχος Ολίσθησης (ΕΑΚ 5.2.3.2.β)
 $Rsd = 48.585 > Vsd = 7.836 \implies O.K.$

- LC no 2252 N= 10.569 $v_x = -5.047$ $v_y = 0.002$ $m_x = -0.001$ $m_y = -4.306$
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 $ex = 0.09$ $ey = 0.00$ $Bx' = 1.31$ $By' = 1.50$ $A' = 1.967$
 $\sigma E = 200.000$ $i = 0.849$

theme1

RNd = 667.908 > NFd = 65.368 ==> O.K.
 B. Έλεγχος Ολίσθησης (ΕΑΚ 5.2.3.2.β)
 Rsd = 37.740 > Vsd = 5.047 ==> O.K.

LC no 2253 N= 34.880 vx= -3.149 vy= 0.004 mx= -0.006 my= -5.051
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 ex = 0.24 ey = 0.00 Bx' = 1.03 By' = 1.50 A' = 1.540
 σE = 200.000 i = 0.800
 RNd = 492.902 > NFd = 41.057 ==> O.K.
 B. Έλεγχος Ολίσθησης (ΕΑΚ 5.2.3.2.β)
 Rsd = 23.704 > Vsd = 3.149 ==> O.K.

LC no 2254 N= -8.214 vx= 7.836 vy= -0.008 mx= 0.012 my= 8.341
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 ex = 0.13 ey = 0.00 Bx' = 1.24 By' = 1.50 A' = 1.861
 σE = 200.000 i = 0.834
 RNd = 621.008 > NFd = 84.152 ==> O.K.
 B. Έλεγχος Ολίσθησης (ΕΑΚ 5.2.3.2.β)
 Rsd = 48.585 > Vsd = 7.836 ==> O.K.

LC no 2255 N= 34.880 vx= -3.149 vy= 0.004 mx= -0.006 my= -5.051
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 ex = 0.24 ey = 0.00 Bx' = 1.03 By' = 1.50 A' = 1.540
 σE = 200.000 i = 0.800
 RNd = 492.902 > NFd = 41.057 ==> O.K.
 B. Έλεγχος Ολίσθησης (ΕΑΚ 5.2.3.2.β)
 Rsd = 23.704 > Vsd = 3.149 ==> O.K.

LC no 2256 N= -14.364 vx= -2.741 vy= -0.001 mx= 0.004 my= -0.609
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 ex = 0.01 ey = 0.00 Bx' = 1.48 By' = 1.50 A' = 2.224
 σE = 200.000 i = 0.946
 RNd = 841.627 > NFd = 90.302 ==> O.K.
 B. Έλεγχος Ολίσθησης (ΕΑΚ 5.2.3.2.β)
 Rsd = 52.136 > Vsd = 2.741 ==> O.K.

LC no 2259 N= -8.214 vx= 7.836 vy= -0.008 mx= 0.012 my= 8.341
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 ex = 0.13 ey = 0.00 Bx' = 1.24 By' = 1.50 A' = 1.861
 σE = 200.000 i = 0.834
 RNd = 621.008 > NFd = 84.152 ==> O.K.
 B. Έλεγχος Ολίσθησης (ΕΑΚ 5.2.3.2.β)
 Rsd = 48.585 > Vsd = 7.836 ==> O.K.

LC no 2260 N= 34.880 vx= -3.149 vy= 0.004 mx= -0.006 my= -5.051
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 ex = 0.24 ey = 0.00 Bx' = 1.03 By' = 1.50 A' = 1.540
 σE = 200.000 i = 0.800
 RNd = 492.902 > NFd = 41.057 ==> O.K.
 B. Έλεγχος Ολίσθησης (ΕΑΚ 5.2.3.2.β)
 Rsd = 23.704 > Vsd = 3.149 ==> O.K.

LC no 2261 N= -8.214 vx= 7.836 vy= -0.008 mx= 0.012 my= 8.341
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 ex = 0.13 ey = 0.00 Bx' = 1.24 By' = 1.50 A' = 1.861
 σE = 200.000 i = 0.834
 RNd = 621.008 > NFd = 84.152 ==> O.K.
 B. Έλεγχος Ολίσθησης (ΕΑΚ 5.2.3.2.β)
 Rsd = 48.585 > Vsd = 7.836 ==> O.K.

LC no 2262 N= 34.880 vx= -3.149 vy= 0.004 mx= -0.006 my= -5.051
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 ex = 0.24 ey = 0.00 Bx' = 1.03 By' = 1.50 A' = 1.540
 σE = 200.000 i = 0.800
 RNd = 492.902 > NFd = 41.057 ==> O.K.
 B. Έλεγχος Ολίσθησης (ΕΑΚ 5.2.3.2.β)
 Rsd = 23.704 > Vsd = 3.149 ==> O.K.

8. Node no 16. Bx = 1.50 By = 1.50 Hz = 1.00 c25 s500 Gk = 56.250

LC no 2251 N= -8.426 vx= 7.692 vy= -1.570 mx= 0.002 my= 8.109
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 ex = 0.13 ey = 0.00 Bx' = 1.25 By' = 1.50 A' = 1.874
 σE = 200.000 i = 0.834
 RNd = 625.322 > NFd = 84.363 ==> O.K.
 B. Έλεγχος Ολίσθησης (ΕΑΚ 5.2.3.2.β)
 Rsd = 48.707 > Vsd = 7.850 ==> O.K.

LC no 2252 N= 7.433 vx= -4.976 vy= -1.288 mx= -0.001 my= -4.215
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 ex = 0.09 ey = 0.00 Bx' = 1.33 By' = 1.50 A' = 1.991
 σE = 200.000 i = 0.856
 RNd = 681.508 > NFd = 68.504 ==> O.K.
 B. Έλεγχος Ολίσθησης (ΕΑΚ 5.2.3.2.β)
 Rsd = 39.551 > Vsd = 5.140 ==> O.K.

theme1

LC no 2253 N= 31.757 vx= -2.863 vy= 0.849 Mx= 0.016 My= -4.654
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (EAK 5.2.3.2.α και Z.6[2])
 $ex = 0.19$ $ey = 0.00$ $Bx' = 1.12$ $By' = 1.50$ $A' = 1.679$
 $\sigma E = 200.000$ $i = 0.834$
 $Rnd = 559.666 > Nfd = 44.180 \implies$ O.K.
 B. Έλεγχος Ολίσθησης (EAK 5.2.3.2.β)
 $Rsd = 25.508 > Vsd = 2.987 \implies$ O.K.

LC no 2254 N= -14.928 vx= -2.872 vy= -1.806 Mx= -0.014 My= -0.800
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (EAK 5.2.3.2.α και Z.6[2])
 $ex = 0.01$ $ey = 0.00$ $Bx' = 1.48$ $By' = 1.50$ $A' = 2.216$
 $\sigma E = 200.000$ $i = 0.934$
 $Rnd = 827.697 > Nfd = 90.865 \implies$ O.K.
 B. Έλεγχος Ολίσθησης (EAK 5.2.3.2.β)
 $Rsd = 52.461 > Vsd = 3.393 \implies$ O.K.

LC no 2255 N= 31.757 vx= -2.863 vy= 0.849 Mx= 0.016 My= -4.654
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (EAK 5.2.3.2.α και Z.6[2])
 $ex = 0.19$ $ey = 0.00$ $Bx' = 1.12$ $By' = 1.50$ $A' = 1.679$
 $\sigma E = 200.000$ $i = 0.834$
 $Rnd = 559.666 > Nfd = 44.180 \implies$ O.K.
 B. Έλεγχος Ολίσθησης (EAK 5.2.3.2.β)
 $Rsd = 25.508 > Vsd = 2.987 \implies$ O.K.

LC no 2256 N= -14.928 vx= -2.872 vy= -1.806 Mx= -0.014 My= -0.800
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (EAK 5.2.3.2.α και Z.6[2])
 $ex = 0.01$ $ey = 0.00$ $Bx' = 1.48$ $By' = 1.50$ $A' = 2.216$
 $\sigma E = 200.000$ $i = 0.934$
 $Rnd = 827.697 > Nfd = 90.865 \implies$ O.K.
 B. Έλεγχος Ολίσθησης (EAK 5.2.3.2.β)
 $Rsd = 52.461 > Vsd = 3.393 \implies$ O.K.

LC no 2259 N= -8.426 vx= 7.692 vy= -1.570 Mx= 0.002 My= 8.109
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (EAK 5.2.3.2.α και Z.6[2])
 $ex = 0.13$ $ey = 0.00$ $Bx' = 1.25$ $By' = 1.50$ $A' = 1.874$
 $\sigma E = 200.000$ $i = 0.834$
 $Rnd = 625.322 > Nfd = 84.363 \implies$ O.K.
 B. Έλεγχος Ολίσθησης (EAK 5.2.3.2.β)
 $Rsd = 48.707 > Vsd = 7.850 \implies$ O.K.

LC no 2260 N= 31.757 vx= -2.863 vy= 0.849 Mx= 0.016 My= -4.654
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (EAK 5.2.3.2.α και Z.6[2])
 $ex = 0.19$ $ey = 0.00$ $Bx' = 1.12$ $By' = 1.50$ $A' = 1.679$
 $\sigma E = 200.000$ $i = 0.834$
 $Rnd = 559.666 > Nfd = 44.180 \implies$ O.K.
 B. Έλεγχος Ολίσθησης (EAK 5.2.3.2.β)
 $Rsd = 25.508 > Vsd = 2.987 \implies$ O.K.

LC no 2261 N= 13.936 vx= 5.588 vy= -1.052 Mx= 0.016 My= 4.693
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (EAK 5.2.3.2.α και Z.6[2])
 $ex = 0.11$ $ey = 0.00$ $Bx' = 1.28$ $By' = 1.50$ $A' = 1.916$
 $\sigma E = 200.000$ $i = 0.817$
 $Rnd = 626.284 > Nfd = 62.002 \implies$ O.K.
 B. Έλεγχος Ολίσθησης (EAK 5.2.3.2.β)
 $Rsd = 35.797 > Vsd = 5.687 \implies$ O.K.

LC no 2262 N= 9.396 vx= -0.760 vy= 0.332 Mx= 0.002 My= -1.238
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (EAK 5.2.3.2.α και Z.6[2])
 $ex = 0.03$ $ey = 0.00$ $Bx' = 1.45$ $By' = 1.50$ $A' = 2.171$
 $\sigma E = 200.000$ $i = 0.975$
 $Rnd = 846.792 > Nfd = 66.541 \implies$ O.K.
 B. Έλεγχος Ολίσθησης (EAK 5.2.3.2.β)
 $Rsd = 38.418 > Vsd = 0.829 \implies$ O.K.

9. Node no 18. Bx = 1.50 By = 1.50 Hz = 1.00 C25 S500 Gk = 56.250

LC no 2251 N= 0.705 vx= 4.352 vy= -2.338 Mx= 1.870 My= 5.285
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (EAK 5.2.3.2.α και Z.6[2])
 $ex = 0.10$ $ey = 0.03$ $Bx' = 1.31$ $By' = 1.43$ $A' = 1.876$
 $\sigma E = 200.000$ $i = 0.878$
 $Rnd = 658.783 > Nfd = 75.232 \implies$ O.K.
 B. Έλεγχος Ολίσθησης (EAK 5.2.3.2.β)
 $Rsd = 43.435 > Vsd = 4.940 \implies$ O.K.

LC no 2252 N= 8.076 vx= -2.212 vy= -4.287 Mx= 1.065 My= -1.855
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (EAK 5.2.3.2.α και Z.6[2])
 $ex = 0.04$ $ey = 0.02$ $Bx' = 1.42$ $By' = 1.46$ $A' = 2.072$
 $\sigma E = 200.000$ $i = 0.863$
 $Rnd = 714.813 > Nfd = 67.861 \implies$ O.K.
 B. Έλεγχος Ολίσθησης (EAK 5.2.3.2.β)
 $Rsd = 39.180 > Vsd = 4.824 \implies$ O.K.

LC no 2253 N= -0.426 vx= -1.457 vy= -0.910 Mx= 1.045 My= -0.222
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (EAK 5.2.3.2.α και Z.6[2])

themen1

ex = 0.00 ey = 0.02 Bx' = 1.49 By' = 1.46 A' = 2.183
 σE = 200.000 i = 0.958
 Rnd = 836.463 > Nfd = 76.363 ==> O.K.
 B. Έλεγχος ολίσθησης (ΕΑΚ 5.2.3.2.β)
 Rsd = 44.088 > Vsd = 1.718 ==> O.K.

LC no 2254 N= 9.207 vx= 3.597 vy= -5.715 Mx= 1.890 My= 3.652
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 ex = 0.08 ey = 0.04 Bx' = 1.34 By' = 1.42 A' = 1.909
 σE = 200.000 i = 0.805
 Rnd = 614.701 > Nfd = 66.730 ==> O.K.
 B. Έλεγχος ολίσθησης (ΕΑΚ 5.2.3.2.β)
 Rsd = 38.527 > Vsd = 6.752 ==> O.K.

LC no 2255 N= 13.214 vx= -1.046 vy= -4.735 Mx= 0.035 My= -2.253
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 ex = 0.05 ey = 0.00 Bx' = 1.40 By' = 1.50 A' = 2.091
 σE = 200.000 i = 0.846
 Rnd = 707.387 > Nfd = 62.723 ==> O.K.
 B. Έλεγχος ολίσθησης (ΕΑΚ 5.2.3.2.β)
 Rsd = 36.213 > Vsd = 4.849 ==> O.K.

LC no 2256 N= -0.426 vx= -1.457 vy= -0.910 Mx= 1.045 My= -0.222
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 ex = 0.00 ey = 0.02 Bx' = 1.49 By' = 1.46 A' = 2.183
 σE = 200.000 i = 0.958
 Rnd = 836.463 > Nfd = 76.363 ==> O.K.
 B. Έλεγχος ολίσθησης (ΕΑΚ 5.2.3.2.β)
 Rsd = 44.088 > Vsd = 1.718 ==> O.K.

LC no 2259 N= 0.705 vx= 4.352 vy= -2.338 Mx= 1.870 My= 5.285
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 ex = 0.10 ey = 0.03 Bx' = 1.31 By' = 1.43 A' = 1.876
 σE = 200.000 i = 0.878
 Rnd = 658.783 > Nfd = 75.232 ==> O.K.
 B. Έλεγχος ολίσθησης (ΕΑΚ 5.2.3.2.β)
 Rsd = 43.435 > Vsd = 4.940 ==> O.K.

LC no 2260 N= 13.214 vx= -1.046 vy= -4.735 Mx= 0.035 My= -2.253
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 ex = 0.05 ey = 0.00 Bx' = 1.40 By' = 1.50 A' = 2.091
 σE = 200.000 i = 0.846
 Rnd = 707.387 > Nfd = 62.723 ==> O.K.
 B. Έλεγχος ολίσθησης (ΕΑΚ 5.2.3.2.β)
 Rsd = 36.213 > Vsd = 4.849 ==> O.K.

LC no 2261 N= 13.214 vx= -1.046 vy= -4.735 Mx= 0.035 My= -2.253
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 ex = 0.05 ey = 0.00 Bx' = 1.40 By' = 1.50 A' = 2.091
 σE = 200.000 i = 0.846
 Rnd = 707.387 > Nfd = 62.723 ==> O.K.
 B. Έλεγχος ολίσθησης (ΕΑΚ 5.2.3.2.β)
 Rsd = 36.213 > Vsd = 4.849 ==> O.K.

LC no 2262 N= 0.705 vx= 4.352 vy= -2.338 Mx= 1.870 My= 5.285
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 ex = 0.10 ey = 0.03 Bx' = 1.31 By' = 1.43 A' = 1.876
 σE = 200.000 i = 0.878
 Rnd = 658.783 > Nfd = 75.232 ==> O.K.
 B. Έλεγχος ολίσθησης (ΕΑΚ 5.2.3.2.β)
 Rsd = 43.435 > Vsd = 4.940 ==> O.K.

10. Node no 19. Bx = 1.00 By = 1.50 Hz = 1.00 c25 s500 Gk = 37.500

LC no 2251 N= -2.741 vx= 0.040 vy= -6.438 Mx= 5.771 My= 0.156
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 ex = 0.00 ey = 0.14 Bx' = 0.99 By' = 1.21 A' = 1.204
 σE = 200.000 i = 0.783
 Rnd = 377.234 > Nfd = 53.366 ==> O.K.
 B. Έλεγχος ολίσθησης (ΕΑΚ 5.2.3.2.β)
 Rsd = 30.811 > Vsd = 6.438 ==> O.K.

LC no 2252 N= 14.591 vx= -0.026 vy= -0.400 Mx= 1.580 My= -0.101
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 ex = 0.00 ey = 0.07 Bx' = 0.99 By' = 1.36 A' = 1.350
 σE = 200.000 i = 0.976
 Rnd = 526.859 > Nfd = 36.034 ==> O.K.
 B. Έλεγχος ολίσθησης (ΕΑΚ 5.2.3.2.β)
 Rsd = 20.804 > Vsd = 0.401 ==> O.K.

LC no 2253 N= 4.865 vx= -0.007 vy= -0.104 Mx= 0.412 My= -0.027
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 ex = 0.00 ey = 0.01 Bx' = 1.00 By' = 1.47 A' = 1.472
 σE = 200.000 i = 0.996
 Rnd = 586.294 > Nfd = 45.760 ==> O.K.

B. Έλεγχος ολίσθησης (ΕΑΚ 5.2.3.2.β)
 $R_{sd} = 26.419 > V_{sd} = 0.104 \Rightarrow O.K.$

LC no 2254 N= 6.985 $v_x = 0.021$ $v_y = -6.734$ $M_x = 6.939$ $M_y = 0.082$
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και 2.6[2])
 $e_x = 0.00$ $e_y = 0.23$ $B_x' = 0.99$ $B_y' = 1.05$ $A' = 1.040$
 $\sigma E = 200.000$ $i = 0.705$
 $R_{nd} = 293.316 > N_{Fd} = 43.640 \Rightarrow O.K.$
 B. Έλεγχος ολίσθησης (ΕΑΚ 5.2.3.2.β)
 $R_{sd} = 25.196 > V_{sd} = 6.734 \Rightarrow O.K.$

LC no 2255 N= 14.591 $v_x = -0.026$ $v_y = -0.400$ $M_x = 1.580$ $M_y = -0.101$
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και 2.6[2])
 $e_x = 0.00$ $e_y = 0.07$ $B_x' = 0.99$ $B_y' = 1.36$ $A' = 1.350$
 $\sigma E = 200.000$ $i = 0.976$
 $R_{nd} = 526.859 > N_{Fd} = 36.034 \Rightarrow O.K.$
 B. Έλεγχος ολίσθησης (ΕΑΚ 5.2.3.2.β)
 $R_{sd} = 20.804 > V_{sd} = 0.401 \Rightarrow O.K.$

LC no 2256 N= -4.348 $v_x = 0.016$ $v_y = -3.637$ $M_x = 3.133$ $M_y = 0.062$
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και 2.6[2])
 $e_x = 0.00$ $e_y = 0.07$ $B_x' = 1.00$ $B_y' = 1.35$ $A' = 1.346$
 $\sigma E = 200.000$ $i = 0.880$
 $R_{nd} = 474.131 > N_{Fd} = 54.973 \Rightarrow O.K.$
 B. Έλεγχος ολίσθησης (ΕΑΚ 5.2.3.2.β)
 $R_{sd} = 31.739 > V_{sd} = 3.637 \Rightarrow O.K.$

LC no 2259 N= -2.741 $v_x = 0.040$ $v_y = -6.438$ $M_x = 5.771$ $M_y = 0.156$
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και 2.6[2])
 $e_x = 0.00$ $e_y = 0.14$ $B_x' = 0.99$ $B_y' = 1.21$ $A' = 1.204$
 $\sigma E = 200.000$ $i = 0.783$
 $R_{nd} = 377.234 > N_{Fd} = 53.366 \Rightarrow O.K.$
 B. Έλεγχος ολίσθησης (ΕΑΚ 5.2.3.2.β)
 $R_{sd} = 30.811 > V_{sd} = 6.438 \Rightarrow O.K.$

LC no 2260 N= 14.591 $v_x = -0.026$ $v_y = -0.400$ $M_x = 1.580$ $M_y = -0.101$
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και 2.6[2])
 $e_x = 0.00$ $e_y = 0.07$ $B_x' = 0.99$ $B_y' = 1.36$ $A' = 1.350$
 $\sigma E = 200.000$ $i = 0.976$
 $R_{nd} = 526.859 > N_{Fd} = 36.034 \Rightarrow O.K.$
 B. Έλεγχος ολίσθησης (ΕΑΚ 5.2.3.2.β)
 $R_{sd} = 20.804 > V_{sd} = 0.401 \Rightarrow O.K.$

LC no 2261 N= 6.985 $v_x = 0.021$ $v_y = -6.734$ $M_x = 6.939$ $M_y = 0.082$
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και 2.6[2])
 $e_x = 0.00$ $e_y = 0.23$ $B_x' = 0.99$ $B_y' = 1.05$ $A' = 1.040$
 $\sigma E = 200.000$ $i = 0.705$
 $R_{nd} = 293.316 > N_{Fd} = 43.640 \Rightarrow O.K.$
 B. Έλεγχος ολίσθησης (ΕΑΚ 5.2.3.2.β)
 $R_{sd} = 25.196 > V_{sd} = 6.734 \Rightarrow O.K.$

LC no 2262 N= 4.865 $v_x = -0.007$ $v_y = -0.104$ $M_x = 0.412$ $M_y = -0.027$
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και 2.6[2])
 $e_x = 0.00$ $e_y = 0.01$ $B_x' = 1.00$ $B_y' = 1.47$ $A' = 1.472$
 $\sigma E = 200.000$ $i = 0.996$
 $R_{nd} = 586.294 > N_{Fd} = 45.760 \Rightarrow O.K.$
 B. Έλεγχος ολίσθησης (ΕΑΚ 5.2.3.2.β)
 $R_{sd} = 26.419 > V_{sd} = 0.104 \Rightarrow O.K.$

11. Node no 20. $B_x = 1.00$ $B_y = 1.50$ $H_z = 1.00$ C25 S500 $G_k = 37.500$

LC no 2251 N= -2.449 $v_x = 0.040$ $v_y = 6.432$ $M_x = -5.747$ $M_y = 0.157$
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και 2.6[2])
 $e_x = 0.00$ $e_y = 0.14$ $B_x' = 0.99$ $B_y' = 1.21$ $A' = 1.203$
 $\sigma E = 200.000$ $i = 0.782$
 $R_{nd} = 376.267 > N_{Fd} = 53.074 \Rightarrow O.K.$
 B. Έλεγχος ολίσθησης (ΕΑΚ 5.2.3.2.β)
 $R_{sd} = 30.642 > V_{sd} = 6.432 \Rightarrow O.K.$

LC no 2252 N= 13.718 $v_x = -0.025$ $v_y = 0.413$ $M_x = -1.630$ $M_y = -0.100$
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και 2.6[2])
 $e_x = 0.00$ $e_y = 0.07$ $B_x' = 0.99$ $B_y' = 1.36$ $A' = 1.351$
 $\sigma E = 200.000$ $i = 0.976$
 $R_{nd} = 527.473 > N_{Fd} = 36.907 \Rightarrow O.K.$
 B. Έλεγχος ολίσθησης (ΕΑΚ 5.2.3.2.β)
 $R_{sd} = 21.308 > V_{sd} = 0.413 \Rightarrow O.K.$

LC no 2253 N= 6.586 $v_x = 0.021$ $v_y = 6.736$ $M_x = -6.949$ $M_y = 0.084$
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και 2.6[2])
 $e_x = 0.00$ $e_y = 0.22$ $B_x' = 0.99$ $B_y' = 1.05$ $A' = 1.045$
 $\sigma E = 200.000$ $i = 0.709$
 $R_{nd} = 296.240 > N_{Fd} = 44.039 \Rightarrow O.K.$
 B. Έλεγχος ολίσθησης (ΕΑΚ 5.2.3.2.β)
 $R_{sd} = 25.426 > V_{sd} = 6.736 \Rightarrow O.K.$

theme1

LC no 2254 N= -7.281 vx= 0.017 vy= -8.514 Mx= 9.056 My= 0.069
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 ex = 0.00 ey = 0.20 Bx' = 1.00 By' = 1.10 A' = 1.092
 σE = 200.000 i = 0.744
 RNd = 325.187 > NFd = 57.906 ==> O.K.
 B. Έλεγχος Ολίσθησης (ΕΑΚ 5.2.3.2.β)
 Rsd = 33.432 > Vsd = 8.514 ==> O.K.

LC no 2255 N= 13.718 vx= -0.025 vy= 0.413 Mx= -1.630 My= -0.100
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 ex = 0.00 ey = 0.07 Bx' = 0.99 By' = 1.36 A' = 1.351
 σE = 200.000 i = 0.976
 RNd = 527.473 > NFd = 36.907 ==> O.K.
 B. Έλεγχος Ολίσθησης (ΕΑΚ 5.2.3.2.β)
 Rsd = 21.308 > Vsd = 0.413 ==> O.K.

LC no 2256 N= -7.281 vx= 0.017 vy= -8.514 Mx= 9.056 My= 0.069
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 ex = 0.00 ey = 0.20 Bx' = 1.00 By' = 1.10 A' = 1.092
 σE = 200.000 i = 0.744
 RNd = 325.187 > NFd = 57.906 ==> O.K.
 B. Έλεγχος Ολίσθησης (ΕΑΚ 5.2.3.2.β)
 Rsd = 33.432 > Vsd = 8.514 ==> O.K.

LC no 2259 N= -2.449 vx= 0.040 vy= 6.432 Mx= -5.747 My= 0.157
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 ex = 0.00 ey = 0.14 Bx' = 0.99 By' = 1.21 A' = 1.203
 σE = 200.000 i = 0.782
 RNd = 376.267 > NFd = 53.074 ==> O.K.
 B. Έλεγχος Ολίσθησης (ΕΑΚ 5.2.3.2.β)
 Rsd = 30.642 > Vsd = 6.432 ==> O.K.

LC no 2260 N= 13.718 vx= -0.025 vy= 0.413 Mx= -1.630 My= -0.100
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 ex = 0.00 ey = 0.07 Bx' = 0.99 By' = 1.36 A' = 1.351
 σE = 200.000 i = 0.976
 RNd = 527.473 > NFd = 36.907 ==> O.K.
 B. Έλεγχος Ολίσθησης (ΕΑΚ 5.2.3.2.β)
 Rsd = 21.308 > Vsd = 0.413 ==> O.K.

LC no 2261 N= -7.281 vx= 0.017 vy= -8.514 Mx= 9.056 My= 0.069
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 ex = 0.00 ey = 0.20 Bx' = 1.00 By' = 1.10 A' = 1.092
 σE = 200.000 i = 0.744
 RNd = 325.187 > NFd = 57.906 ==> O.K.
 B. Έλεγχος Ολίσθησης (ΕΑΚ 5.2.3.2.β)
 Rsd = 33.432 > Vsd = 8.514 ==> O.K.

LC no 2262 N= 6.586 vx= 0.021 vy= 6.736 Mx= -6.949 My= 0.084
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 ex = 0.00 ey = 0.22 Bx' = 0.99 By' = 1.05 A' = 1.045
 σE = 200.000 i = 0.709
 RNd = 296.240 > NFd = 44.039 ==> O.K.
 B. Έλεγχος Ολίσθησης (ΕΑΚ 5.2.3.2.β)
 Rsd = 25.426 > Vsd = 6.736 ==> O.K.

12. Node no 21. Bx = 1.00 By = 1.50 Hz = 1.00 c25 s500 Gk = 37.500

LC no 2251 N= -3.642 vx= 0.039 vy= 6.345 Mx= -5.406 My= 0.155
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 ex = 0.00 ey = 0.13 Bx' = 0.99 By' = 1.24 A' = 1.228
 σE = 200.000 i = 0.791
 RNd = 388.480 > NFd = 54.267 ==> O.K.
 B. Έλεγχος Ολίσθησης (ΕΑΚ 5.2.3.2.β)
 Rsd = 31.331 > Vsd = 6.346 ==> O.K.

LC no 2252 N= 15.625 vx= -0.025 vy= 0.514 Mx= -2.029 My= -0.099
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 ex = 0.00 ey = 0.09 Bx' = 0.99 By' = 1.31 A' = 1.303
 σE = 200.000 i = 0.967
 RNd = 503.989 > NFd = 35.000 ==> O.K.
 B. Έλεγχος Ολίσθησης (ΕΑΚ 5.2.3.2.β)
 Rsd = 20.207 > Vsd = 0.514 ==> O.K.

LC no 2253 N= 6.775 vx= 0.021 vy= 6.724 Mx= -6.901 My= 0.083
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 ex = 0.00 ey = 0.22 Bx' = 0.99 By' = 1.05 A' = 1.045
 σE = 200.000 i = 0.708
 RNd = 295.843 > NFd = 43.850 ==> O.K.
 B. Έλεγχος Ολίσθησης (ΕΑΚ 5.2.3.2.β)
 Rsd = 25.317 > Vsd = 6.724 ==> O.K.

LC no 2254 N= -8.575 vx= 0.017 vy= -8.496 Mx= 8.984 My= 0.069
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 ex = 0.00 ey = 0.19 Bx' = 1.00 By' = 1.11 A' = 1.107

theme1

$\sigma E = 200.000$ $i = 0.752$
 $Rnd = 332.789 > Nfd = 59.200 \implies O.K.$
 B. Έλεγχος ολίσθησης (ΕΑΚ 5.2.3.2.β)
 $Rsd = 34.179 > Vsd = 8.496 \implies O.K.$

LC no 2255 $N = 15.625$ $v_x = -0.025$ $v_y = 0.514$ $M_x = -2.029$ $M_y = -0.099$
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 $ex = 0.00$ $ey = 0.09$ $Bx' = 0.99$ $By' = 1.31$ $A' = 1.303$
 $\sigma E = 200.000$ $i = 0.967$
 $Rnd = 503.989 > Nfd = 35.000 \implies O.K.$
 B. Έλεγχος ολίσθησης (ΕΑΚ 5.2.3.2.β)
 $Rsd = 20.207 > Vsd = 0.514 \implies O.K.$

LC no 2256 $N = -8.575$ $v_x = 0.017$ $v_y = -8.496$ $M_x = 8.984$ $M_y = 0.069$
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 $ex = 0.00$ $ey = 0.19$ $Bx' = 1.00$ $By' = 1.11$ $A' = 1.107$
 $\sigma E = 200.000$ $i = 0.752$
 $Rnd = 332.789 > Nfd = 59.200 \implies O.K.$
 B. Έλεγχος ολίσθησης (ΕΑΚ 5.2.3.2.β)
 $Rsd = 34.179 > Vsd = 8.496 \implies O.K.$

LC no 2259 $N = -3.642$ $v_x = 0.039$ $v_y = 6.345$ $M_x = -5.406$ $M_y = 0.155$
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 $ex = 0.00$ $ey = 0.13$ $Bx' = 0.99$ $By' = 1.24$ $A' = 1.228$
 $\sigma E = 200.000$ $i = 0.791$
 $Rnd = 388.480 > Nfd = 54.267 \implies O.K.$
 B. Έλεγχος ολίσθησης (ΕΑΚ 5.2.3.2.β)
 $Rsd = 31.331 > Vsd = 6.346 \implies O.K.$

LC no 2260 $N = 15.625$ $v_x = -0.025$ $v_y = 0.514$ $M_x = -2.029$ $M_y = -0.099$
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 $ex = 0.00$ $ey = 0.09$ $Bx' = 0.99$ $By' = 1.31$ $A' = 1.303$
 $\sigma E = 200.000$ $i = 0.967$
 $Rnd = 503.989 > Nfd = 35.000 \implies O.K.$
 B. Έλεγχος ολίσθησης (ΕΑΚ 5.2.3.2.β)
 $Rsd = 20.207 > Vsd = 0.514 \implies O.K.$

LC no 2261 $N = -3.642$ $v_x = 0.039$ $v_y = 6.345$ $M_x = -5.406$ $M_y = 0.155$
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 $ex = 0.00$ $ey = 0.13$ $Bx' = 0.99$ $By' = 1.24$ $A' = 1.228$
 $\sigma E = 200.000$ $i = 0.791$
 $Rnd = 388.480 > Nfd = 54.267 \implies O.K.$
 B. Έλεγχος ολίσθησης (ΕΑΚ 5.2.3.2.β)
 $Rsd = 31.331 > Vsd = 6.346 \implies O.K.$

LC no 2262 $N = 1.843$ $v_x = -0.001$ $v_y = -8.117$ $M_x = 7.489$ $M_y = -0.003$
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 $ex = 0.00$ $ey = 0.21$ $Bx' = 1.00$ $By' = 1.08$ $A' = 1.080$
 $\sigma E = 200.000$ $i = 0.697$
 $Rnd = 300.840 > Nfd = 48.782 \implies O.K.$
 B. Έλεγχος ολίσθησης (ΕΑΚ 5.2.3.2.β)
 $Rsd = 28.165 > Vsd = 8.117 \implies O.K.$

13. Node no 22. $B_x = 1.00$ $B_y = 1.50$ $H_z = 1.00$ C25 S500 $G_k = 37.500$

LC no 2251 $N = -3.915$ $v_x = 0.039$ $v_y = -6.350$ $M_x = 5.424$ $M_y = 0.154$
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 $ex = 0.00$ $ey = 0.13$ $Bx' = 0.99$ $By' = 1.24$ $A' = 1.229$
 $\sigma E = 200.000$ $i = 0.792$
 $Rnd = 389.367 > Nfd = 54.540 \implies O.K.$
 B. Έλεγχος ολίσθησης (ΕΑΚ 5.2.3.2.β)
 $Rsd = 31.488 > Vsd = 6.350 \implies O.K.$

LC no 2252 $N = 16.468$ $v_x = -0.025$ $v_y = -0.500$ $M_x = 1.975$ $M_y = -0.099$
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 $ex = 0.00$ $ey = 0.09$ $Bx' = 0.99$ $By' = 1.31$ $A' = 1.300$
 $\sigma E = 200.000$ $i = 0.967$
 $Rnd = 502.681 > Nfd = 34.157 \implies O.K.$
 B. Έλεγχος ολίσθησης (ΕΑΚ 5.2.3.2.β)
 $Rsd = 19.721 > Vsd = 0.501 \implies O.K.$

LC no 2253 $N = 5.375$ $v_x = -0.007$ $v_y = -0.131$ $M_x = 0.515$ $M_y = -0.026$
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 $ex = 0.00$ $ey = 0.02$ $Bx' = 1.00$ $By' = 1.47$ $A' = 1.465$
 $\sigma E = 200.000$ $i = 0.994$
 $Rnd = 582.859 > Nfd = 45.250 \implies O.K.$
 B. Έλεγχος ολίσθησης (ΕΑΚ 5.2.3.2.β)
 $Rsd = 26.125 > Vsd = 0.131 \implies O.K.$

LC no 2254 $N = 7.178$ $v_x = 0.021$ $v_y = -6.720$ $M_x = 6.883$ $M_y = 0.082$
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 $ex = 0.00$ $ey = 0.23$ $Bx' = 0.99$ $By' = 1.05$ $A' = 1.040$
 $\sigma E = 200.000$ $i = 0.704$
 $Rnd = 293.038 > Nfd = 43.447 \implies O.K.$
 B. Έλεγχος ολίσθησης (ΕΑΚ 5.2.3.2.β)

theme1

Rsd = 25.084 > Vsd = 6.720 ==> O.K.

LC no 2255 N= 16.468 vx= -0.025 vy= -0.500 Mx= 1.975 My= -0.099
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 ex = 0.00 ey = 0.09 Bx' = 0.99 By' = 1.31 A' = 1.300
 σE = 200.000 i = 0.967
 Rnd = 502.681 > NFd = 34.157 ==> O.K.
 B. Έλεγχος Ολίσθησης (ΕΑΚ 5.2.3.2.β)
 Rsd = 19.721 > Vsd = 0.501 ==> O.K.

LC no 2256 N= -5.467 vx= 0.016 vy= -3.552 Mx= 2.795 My= 0.062
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 ex = 0.00 ey = 0.07 Bx' = 1.00 By' = 1.37 A' = 1.366
 σE = 200.000 i = 0.886
 Rnd = 484.209 > NFd = 56.092 ==> O.K.
 B. Έλεγχος Ολίσθησης (ΕΑΚ 5.2.3.2.β)
 Rsd = 32.385 > Vsd = 3.552 ==> O.K.

LC no 2259 N= -3.915 vx= 0.039 vy= -6.350 Mx= 5.424 My= 0.154
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 ex = 0.00 ey = 0.13 Bx' = 0.99 By' = 1.24 A' = 1.229
 σE = 200.000 i = 0.792
 Rnd = 389.367 > NFd = 54.540 ==> O.K.
 B. Έλεγχος Ολίσθησης (ΕΑΚ 5.2.3.2.β)
 Rsd = 31.488 > Vsd = 6.350 ==> O.K.

LC no 2260 N= 16.468 vx= -0.025 vy= -0.500 Mx= 1.975 My= -0.099
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 ex = 0.00 ey = 0.09 Bx' = 0.99 By' = 1.31 A' = 1.300
 σE = 200.000 i = 0.967
 Rnd = 502.681 > NFd = 34.157 ==> O.K.
 B. Έλεγχος Ολίσθησης (ΕΑΚ 5.2.3.2.β)
 Rsd = 19.721 > Vsd = 0.501 ==> O.K.

LC no 2261 N= 16.468 vx= -0.025 vy= -0.500 Mx= 1.975 My= -0.099
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 ex = 0.00 ey = 0.09 Bx' = 0.99 By' = 1.31 A' = 1.300
 σE = 200.000 i = 0.967
 Rnd = 502.681 > NFd = 34.157 ==> O.K.
 B. Έλεγχος Ολίσθησης (ΕΑΚ 5.2.3.2.β)
 Rsd = 19.721 > Vsd = 0.501 ==> O.K.

LC no 2262 N= -3.915 vx= 0.039 vy= -6.350 Mx= 5.424 My= 0.154
 A. Έλεγχος Υπέρβασης Φέρουσας Ικανότητας (ΕΑΚ 5.2.3.2.α και Z.6[2])
 ex = 0.00 ey = 0.13 Bx' = 0.99 By' = 1.24 A' = 1.229
 σE = 200.000 i = 0.792
 Rnd = 389.367 > NFd = 54.540 ==> O.K.
 B. Έλεγχος Ολίσθησης (ΕΑΚ 5.2.3.2.β)
 Rsd = 31.488 > Vsd = 6.350 ==> O.K.