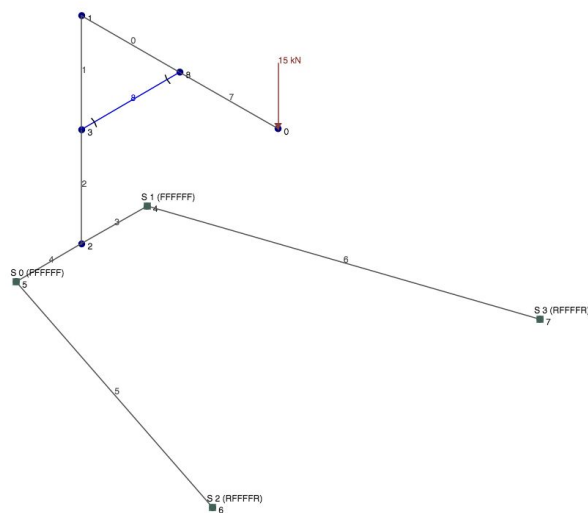




LINEAR STATIC ANALYSIS REPORT

Wed Aug 10 2016 19:15:18 GMT+1000 (AEST)



File Name: Engine-Crane-Report-Example

Software: SkyCiv Structural v1.2.5

Included in this Report:

- Job Setup
- Single Member Reports
- User Defined Screenshots
- Direct Results
- Intermediate Results

Job Setup

LINEAR STATIC ANALYSIS REPORT
SkyCiv Structural 3D v1.2.5
Date: Wed Aug 10 2016 19:15:12 GMT+1000 (AEST)

File Name: Engine-Crane-Report-Example
Job Name: Empty
Designer: Empty
Job Description: Empty

Length Units: m
Section Length Units: mm
Force Units: kN
Moment and Torsion Units: kNm
Material Strength Units: MPa
Material Density Units: kg/m³
Translation Units: mm
Stress Units: MPa

Nodes: 9
Members: 9
Supports: 4
Sections: 2

Point Loads: 1
Distributed Loads: 0
Moments: 0

Units: metric
Maximum Decimal Places: 3
Evaluation Points: 10
General Constraint: RRRRRR
Total Degrees of Freedom: 34

Self Weight: OFF
Load Combinations: OFF

NODE COORDINATES (m)

Node	X Coord	Y Coord	Z Coord
0	0.000	0.600	0.000
1	-0.600	0.600	0.000
2	-0.600	0.000	0.000
3	-0.600	0.300	0.000
4	-0.600	0.000	-0.200
5	-0.600	0.000	0.200
6	0.300	0.000	0.500
7	0.300	0.000	-0.500
8	-0.300	0.600	0.000

MEMBERS (deg, m)

F=Fixed, R=Released

Member	Node A	Node B	Section	Angle	Node A Fixity	Node B Fixity	Length
0	1	8	0	0.000	FFFFFF	FFFFFF	0.300
1	1	3	0	0.000	FFFFFF	FFFFFF	0.300
2	3	2	0	0.000	FFFFFF	FFFFFF	0.300
3	2	4	0	0.000	FFFFFF	FFFFFF	0.200
4	5	2	0	0.000	FFFFFF	FFFFFF	0.200
5	5	6	0	0.000	FFFFFF	FFFFFF	0.949
6	4	7	0	0.000	FFFFFF	FFFFFF	0.949
7	8	0	0	0.000	FFFFFF	FFFFFF	0.300
8	3	8	1	0.000	FFFFFR	FFFFFR	0.424

SUPPORTS (kN/m, kNm/rad)

F=Fixed, R=Released, S=Spring

Node	Restraint Code	X Trans Stiffness	Y Trans Stiffness	Z Trans Stiffness	X Rot Stiffness	Y Rot Stiffness	Z Rot Stiffness
5	FFFFFF	-	-	-	-	-	-
4	FFFFFF	-	-	-	-	-	-
6	RFFFFR	-	-	-	-	-	-
7	RFFFFR	-	-	-	-	-	-

SECTIONS (MPa, kg/m³, mm, mm², mm⁴, deg)

Section	Name	Shape	Depth	Width
0	Steel Members	Hollow Rect	50.000	40.000
1	50	Circ	50.000	50.000

Section	Young's Modulus	Density	Poisson's Ratio	Area	Y-Axis MoI	Z-Axis MoI	Torsion Constant	Principal Angle
0	200000.000	7850.000	0.270	800.000	176666.667	256666.667	310078.125	0.000
1	200000.000	7850.000	0.270	1963.495	306796.158	306796.158	613592.315	0.000

POINT LOADS (kN)

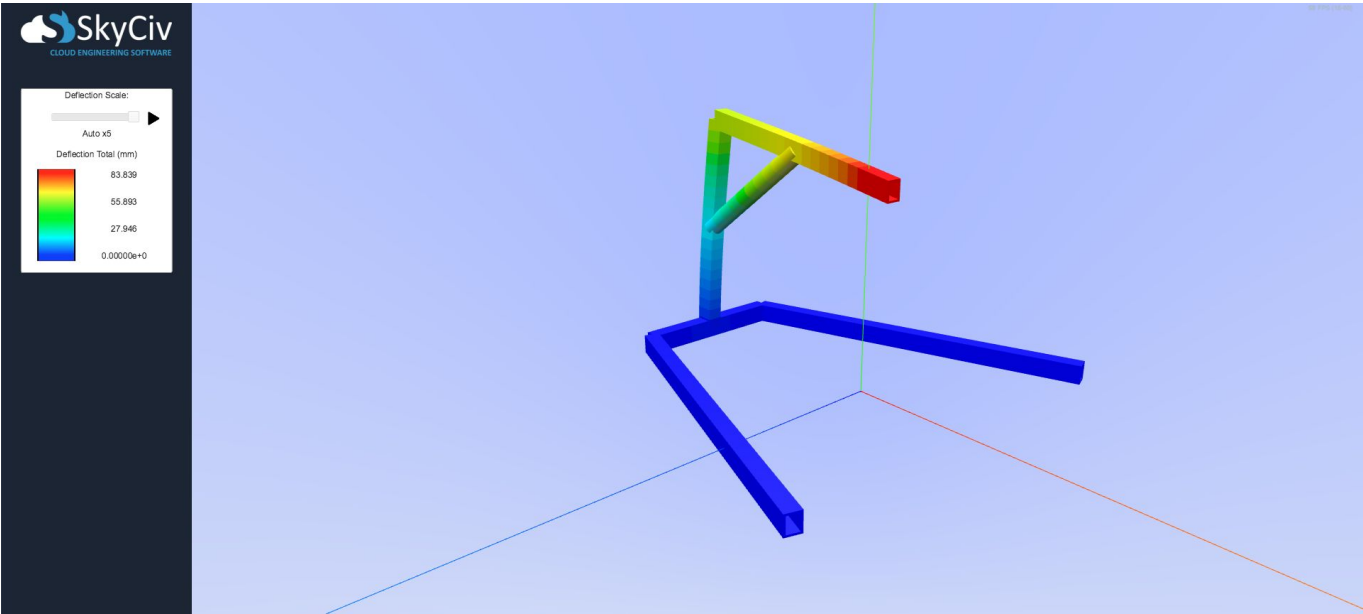
Load Group	Node	Member	Position (%)	X Magnitude	Y Magnitude	Z Magnitude
0	0			0.000	-15.000	0.000

BILL OF MATERIALS (m, kg)

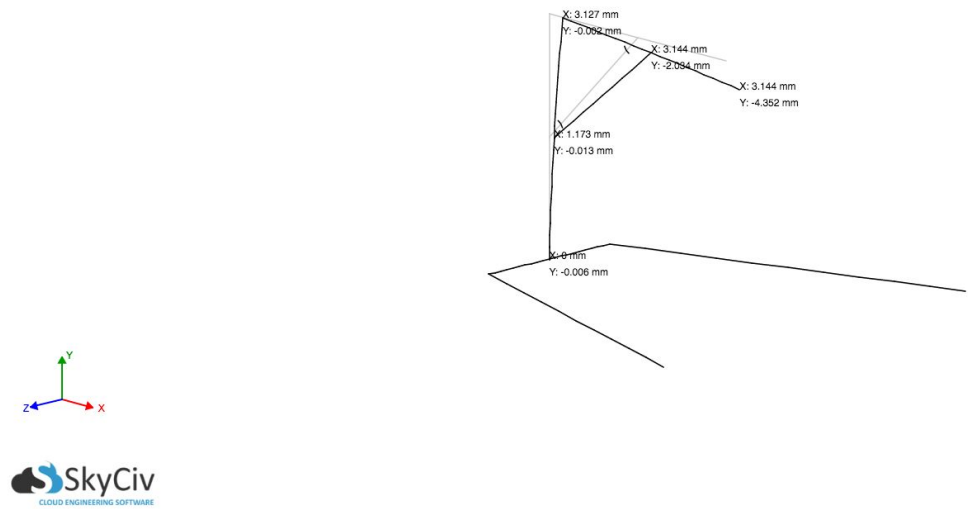
Section	Quantity	Unit Length	Total Length	Unit Mass	Total Mass
0	4	0.300	1.200	1.884	7.536
0	2	0.200	0.400	1.256	2.512
0	2	0.949	1.897	5.958	11.915
1	1	0.424	0.424	6.539	6.539
					28.503

User Defined Screenshots

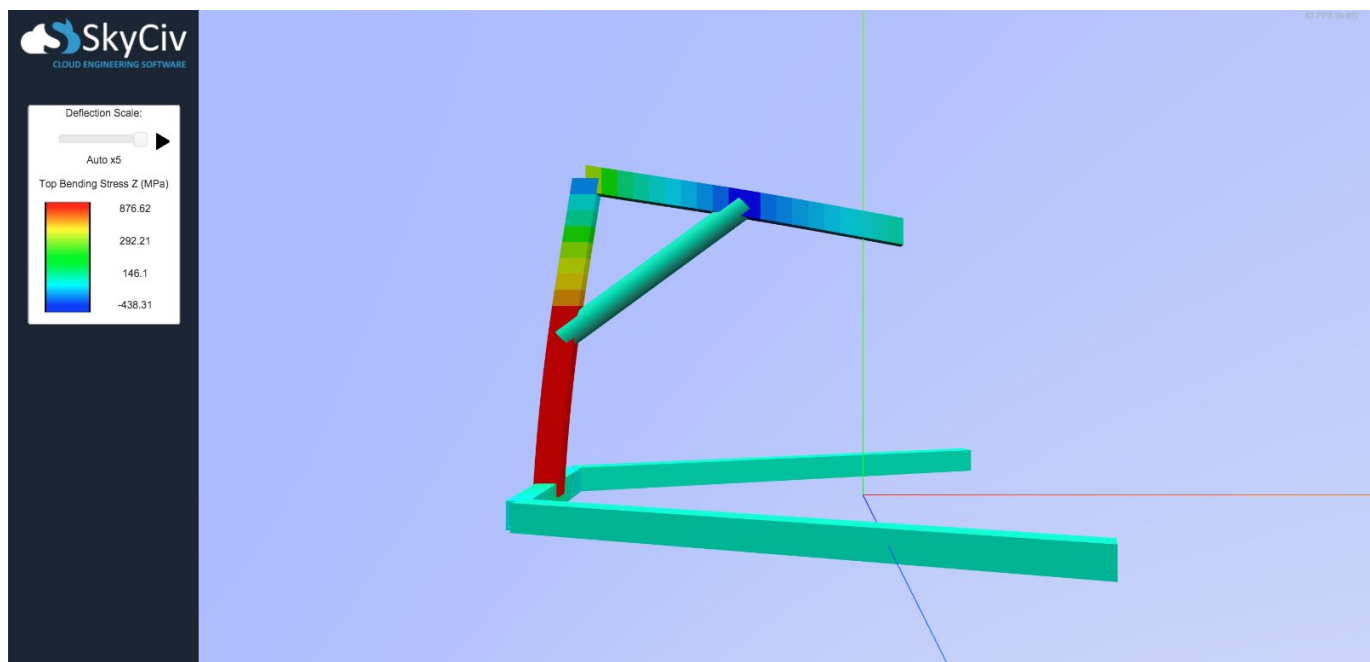
Render-Deflection



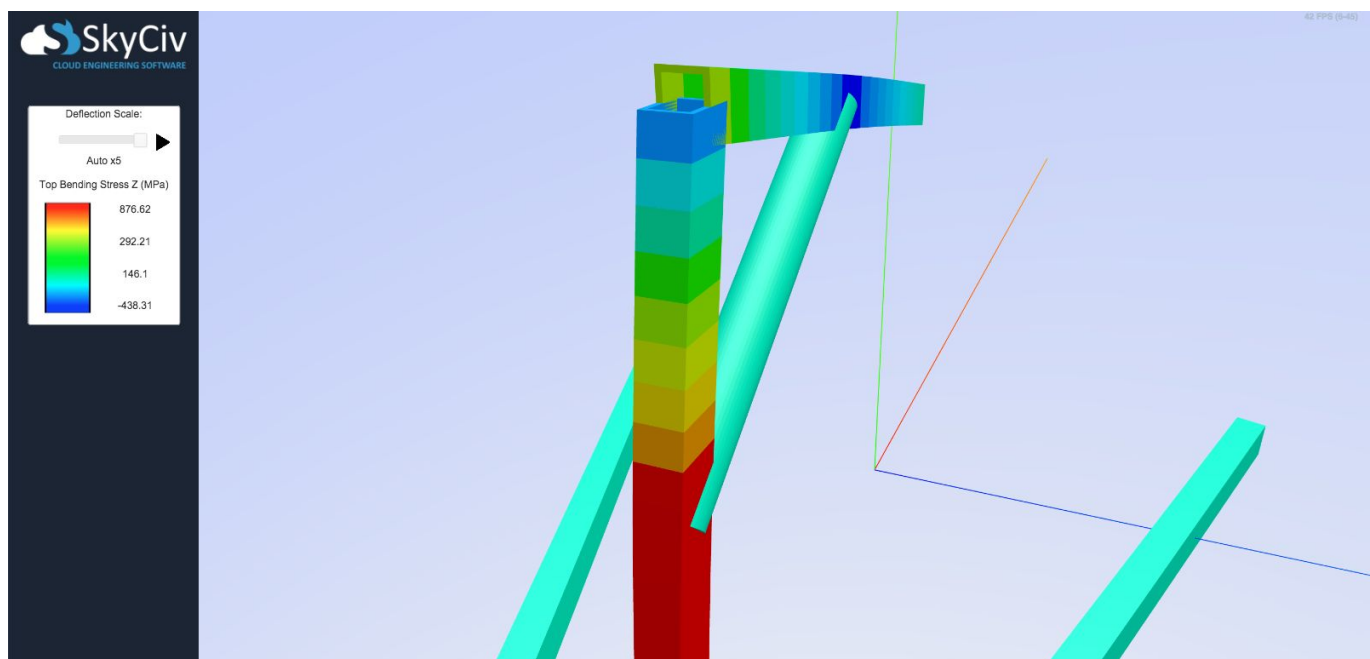
Deflection-Wireframe



Bending Stress



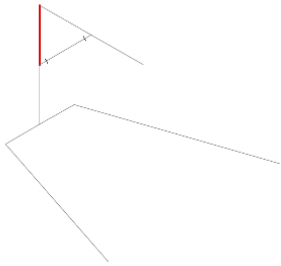
Bending Stress Upper Arm



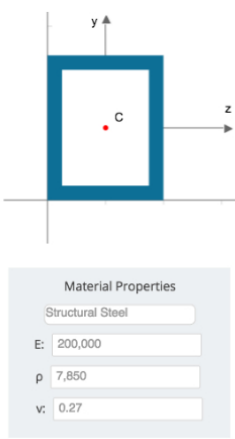
Member 1 Analysis

Member Summary Table	
Member Number	1
Member Length	0.3 m
Section No, Name	0, Steel Members
Section Rotation	0 degrees
Fixity A	FFFFF
Fixity B	FFFFF

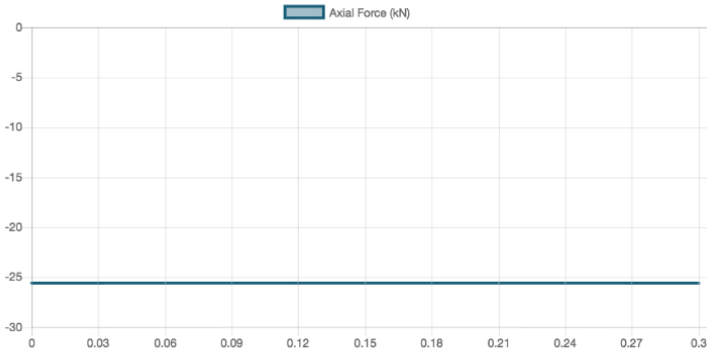
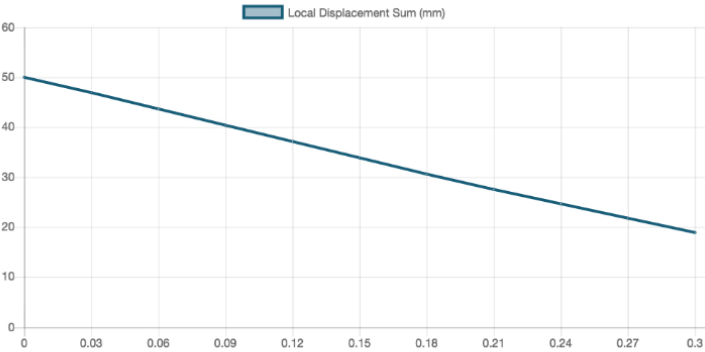
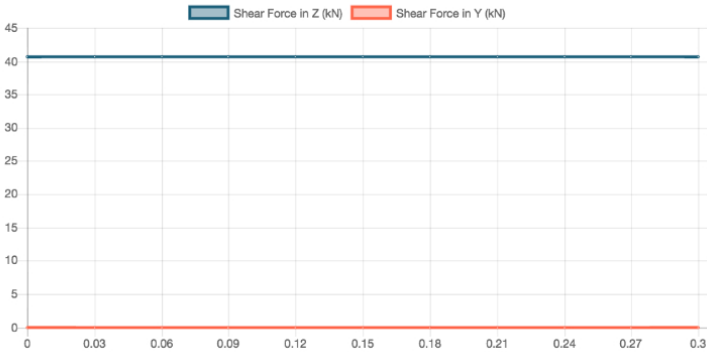
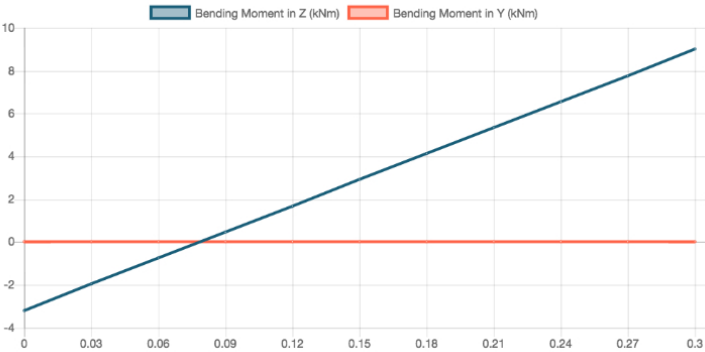
Buckling	Not Analysed
Reaction A (kN,kNm)	No Support at this Location
Reaction B (kN,kNm)	No Support at this Location



Result		Max Location and Result (m,MPa)		Min Location and Result (m,MPa)
Shear Stress in Y	0.3	102.932	0	102.932
Shear Stress in Z	0.3	0	0	0
Bending Stress (Bottom) in Y	0.06	0	0.3	0
Bending Stress (Bottom) in Z	0	311.057	0.3	-876.623
Combined Stress (Bottom) in Y	0	-32.056	0.3	-32.056
Combined Stress (Bottom) in Z	0	279.001	0.3	-908.68
Bending Stress (Top) in Y	0.3	0	0.06	0
Bending Stress (Bottom) in Z	0.3	876.623	0	-311.057
Combined Stress (Top) in Y	0	-32.056	0.3	-32.056
Combined Stress (Top) in Z	0.3	844.567	0	-343.114
Axial Stress	0	-32.056	0.3	-32.056



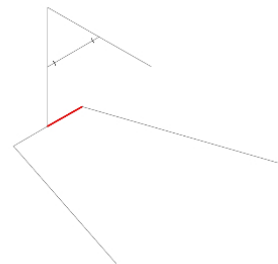
Notation	Value	Unit
A	800	mm ²
I _z	256666.667	mm ⁴
I _y	176666.667	mm ⁴
C _z	20	mm
C _y	25	mm
Q _z	6500	mm ³
Q _y	5500	mm ³
Z _z	10266.667	mm ³
Z _y	8833.333	mm ³
J	310078.125	mm ⁴



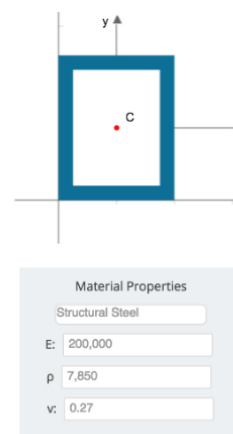
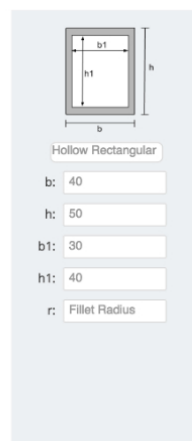
Member 3 Analysis

Member Summary Table	
Member Number	3
Member Length	0.2 m
Section No, Name	0, Steel Members
Section Rotation	0 degrees
Fixity A	FFFFF
Fixity B	FFFFF

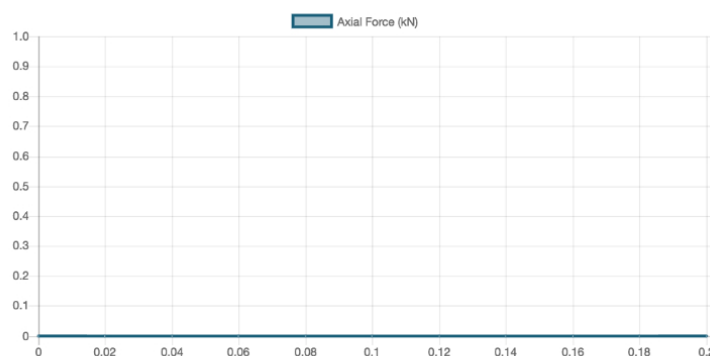
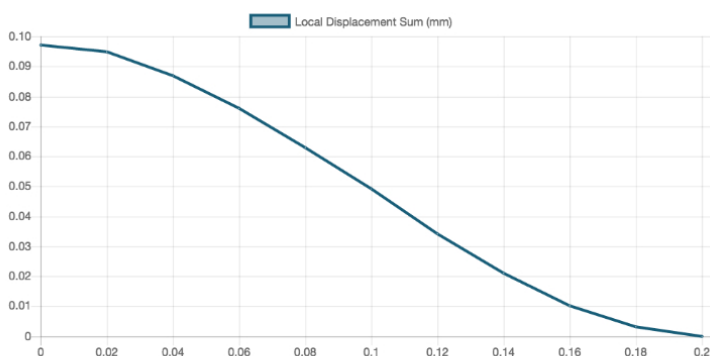
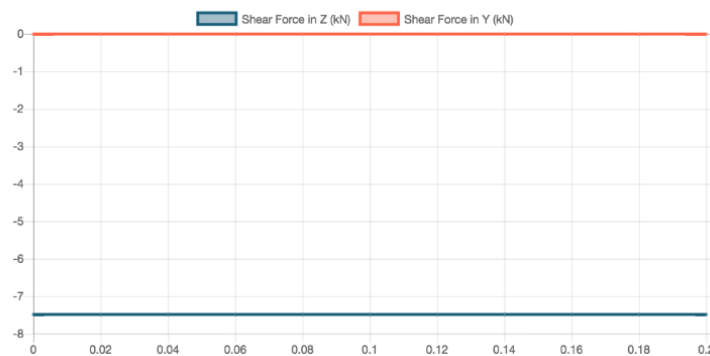
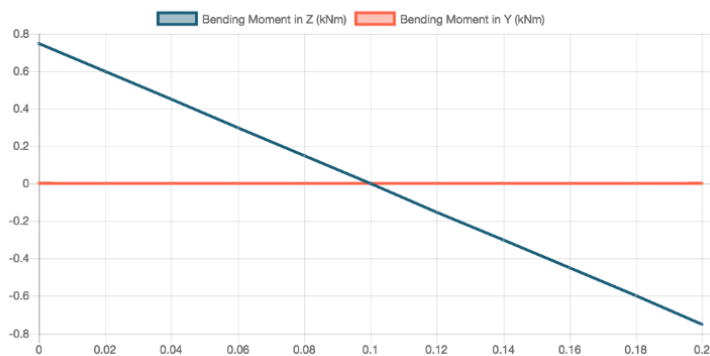
Buckling	Not Analysed
Reaction A (kN,kNm)	No Support at this Location
Reaction B (kN,kNm)	X: 0 Y: 7.5 Z: 0 Mx: -0.75 My: 0 Mz: 4.5



Result		Max Location and Result (m,MPa)	Min Location and Result (m,MPa)
Shear Stress in Y	0.2	-18.994	0
Shear Stress in Z	0.2	0	0
Bending Stress (Bottom) in Y	0.2	0	0.16
Bending Stress (Bottom) in Z	0.2	73.052	0
Combined Stress (Bottom) in Y	0.2	0	0.16
Combined Stress (Bottom) in Z	0.2	73.052	0
Bending Stress (Top) in Y	0.16	0	0.2
Bending Stress (Bottom) in Z	0	73.052	0.2
Combined Stress (Top) in Y	0.16	0	0.2
Combined Stress (Top) in Z	0	73.052	0.2
Axial Stress	0	0	0.2



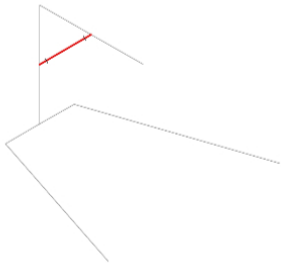
Notation	Value	Unit
A	800	mm ²
I _z	256666.667	mm ⁴
I _y	176666.667	mm ⁴
C _z	20	mm
C _y	25	mm
Q _z	6500	mm ³
Q _y	5500	mm ³
Z _z	10266.667	mm ³
Z _y	8833.333	mm ³
J	310078.125	mm ⁴



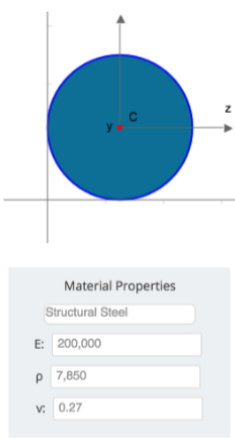
Member 8 Analysis

Member Summary Table	
Member Number	8
Member Length	0.424 m
Section No, Name	1, 50
Section Rotation	0 degrees
Fixity A	FFFFFR
Fixity B	FFFFFR

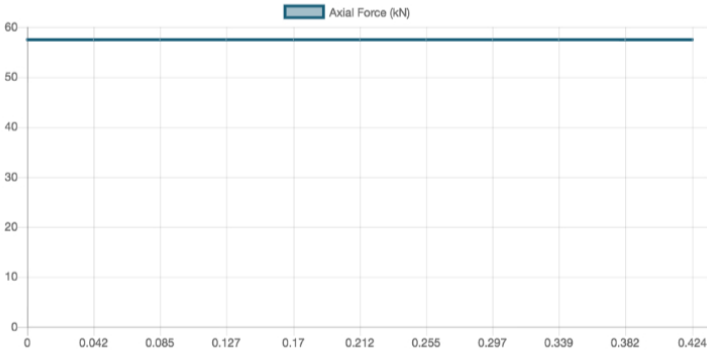
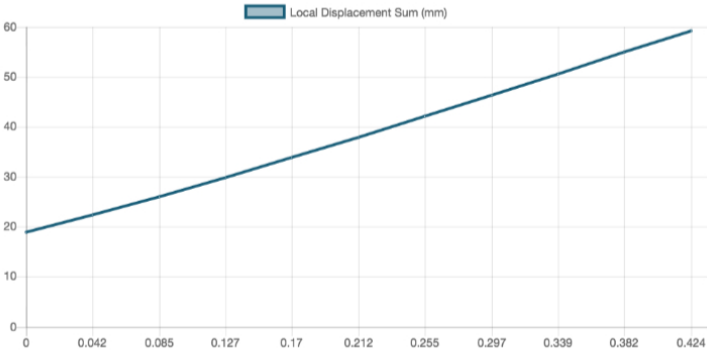
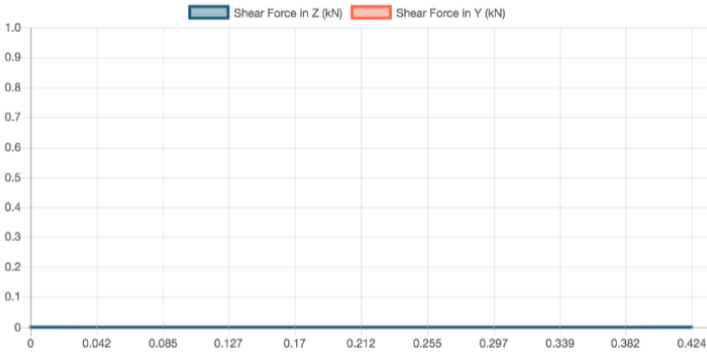
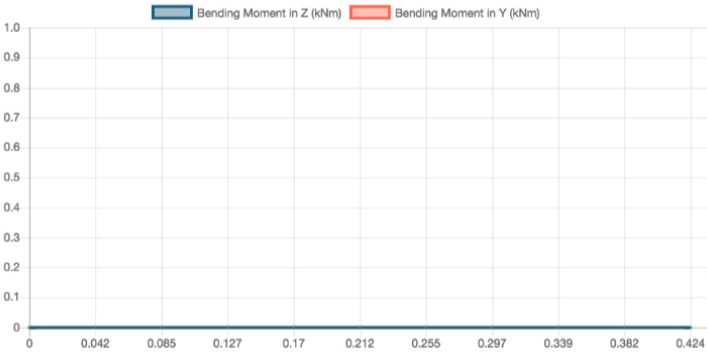
Buckling	Not Analysed
Reaction A (kN,kNm)	No Support at this Location
Reaction B (kN,kNm)	No Support at this Location



Result	Max Location and Result (m,MPa)		Min Location and Result (m,MPa)	
Shear Stress in Y	0.255	0	0.424	0
Shear Stress in Z	0.424	0	0	0
Bending Stress (Bottom) in Y	0.424	0	0	0
Bending Stress (Bottom) in Z	0.212	0	0.382	0
Combined Stress (Bottom) in Y	0	29.275	0.424	29.275
Combined Stress (Bottom) in Z	0	29.275	0.424	29.275
Bending Stress (Top) in Y	0	0	0.424	0
Bending Stress (Bottom) in Z	0.382	0	0.212	0
Combined Stress (Top) in Y	0	29.275	0.424	29.275
Combined Stress (Top) in Z	0	29.275	0.424	29.275
Axial Stress	0	29.275	0.424	29.275



Notation	Value	Unit
A	1963.495	mm ²
I _z	306796.158	mm ⁴
I _y	306796.158	mm ⁴
C _z	25	mm
C _y	25	mm
Q _z	10416.667	mm ³
Q _y	10416.667	mm ³
Z _z	12271.846	mm ³
Z _y	12271.846	mm ³
J	613592.315	mm ⁴



Direct Results

NODE REACTIONS (kN, kNm)

		X	Y	Z	X	Y	Z
	Node	Force	Force	Force	Moment	Moment	Moment
	4	-0.000	7.500	0.000	-0.750	-0.000	4.500
	5	-0.000	7.500	0.000	0.750	0.000	4.500
	6	0.000	0.000	0.000	0.000	0.000	0.000
	7	0.000	0.000	0.000	0.000	0.000	0.000
	Reaction Sum	-0.000	15.000	0.000	0.000	0.000	9.000
	Load Sum	0.000	-15.000	0.000	0.000	0.000	0.000
	Reaction Moment Sum				0.000	0.000	0.000
	Load Moment Sum				0.000	0.000	0.000
	Equilibrium	-0.000	0.000	0.000	0.000	0.000	0.000

INTERNAL MEMBER FORCES AND MOMENTS (kN, kNm)

Member	Node	Axial Force	Y Shear	Z Shear	X Torsion	Y Moment	Z Moment
0	1	-40.645	-25.645	-0.000	0.000	-0.000	3.194
	8	-40.645	-25.645	-0.000	0.000	-0.000	-4.500
1	1	-25.645	40.645	0.000	-0.000	-0.000	-3.194
	3	-25.645	40.645	0.000	-0.000	0.000	9.000
2	3	15.000	-0.000	0.000	-0.000	-0.000	9.000
	2	15.000	-0.000	0.000	-0.000	-0.000	9.000
3	2	-0.000	-7.500	-0.000	4.500	0.000	0.750
	4	-0.000	-7.500	0.000	4.500	-0.000	-0.750
4	5	0.000	7.500	-0.000	-4.500	-0.000	-0.750
	2	0.000	7.500	0.000	-4.500	-0.000	0.750
5	5	0.000	0.000	0.000	0.000	0.000	0.000
	6	0.000	0.000	0.000	0.000	0.000	0.000
6	4	0.000	0.000	0.000	0.000	0.000	0.000
	7	0.000	0.000	0.000	0.000	0.000	0.000
7	8	0.000	15.000	0.000	0.000	-0.000	-4.500
	0	0.000	15.000	0.000	0.000	0.000	-0.000
8	3	57.481	0.000	0.000	0.000	-0.000	0.000
	8	57.481	-0.000	0.000	-0.000	-0.000	0.000

DISPLACEMENTS (mm, rad)

Node	X Translation	Y Translation	Z Translation	Total Translation	X Rotation	Y Rotation	Z Rotation
0	50.189	-67.157	-0.000	83.839	-0.000	0.000	-0.123
1	50.112	-0.077	-0.000	50.112	-0.000	0.000	-0.106
2	0.000	-0.097	0.000	0.097	-0.000	0.000	-0.037
3	18.948	-0.126	-0.000	18.949	-0.000	0.000	-0.089
4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7	0.000	0.000	0.000	0.000	0.000	0.000	0.000
8	50.189	-31.454	-0.000	59.230	-0.000	0.000	-0.110

Intermediate Results (mid member)

INTERNAL MEMBER FORCES AND MOMENTS (m, kN, kNm)

= Minimum, * = Maximum

Member	Station Location	Axial Force	Y Shear	Z Shear	X Torsion	Y Moment	Z Moment
0	0.000	-40.645	-25.645	-0.000	0.000	-0.000	3.194*
0	0.030	-40.645	-25.645	-0.000	0.000	0.000	2.424
0	0.060	-40.645	-25.645	-0.000	0.000	0.000	1.655
0	0.090	-40.645	-25.645	-0.000	0.000	0.000	0.885
0	0.120	-40.645	-25.645	-0.000	0.000	0.000	0.116
0	0.150	-40.645	-25.645	-0.000	0.000	0.000	-0.653
0	0.180	-40.645	-25.645	-0.000	0.000	-0.000	-1.423
0	0.210	-40.645	-25.645	-0.000	0.000	-0.000	-2.192
0	0.240	-40.645	-25.645	-0.000	0.000	-0.000	-2.961
0	0.270	-40.645	-25.645	-0.000	0.000	-0.000	-3.731
0	0.300	-40.645	-25.645	-0.000	0.000	-0.000	-4.500#
1	0.000	-25.645	40.645	0.000	-0.000	-0.000	-3.194#
1	0.030	-25.645	40.645	0.000	-0.000	-0.000	-1.974
1	0.060	-25.645	40.645	0.000	-0.000	-0.000	-0.755
1	0.090	-25.645	40.645	0.000	-0.000	0.000	0.465
1	0.120	-25.645	40.645	0.000	-0.000	0.000	1.684
1	0.150	-25.645	40.645	0.000	-0.000	0.000	2.903
1	0.180	-25.645	40.645	0.000	-0.000	0.000	4.123
1	0.210	-25.645	40.645	0.000	-0.000	0.000	5.342
1	0.240	-25.645	40.645	0.000	-0.000	0.000	6.561
1	0.270	-25.645	40.645	0.000	-0.000	0.000	7.781
1	0.300	-25.645	40.645	0.000	-0.000	0.000	9.000*
2	0.000	15.000	-0.000	0.000	-0.000	-0.000	9.000
2	0.030	15.000	-0.000	0.000	-0.000	-0.000	9.000
2	0.060	15.000	-0.000	0.000	-0.000	-0.000	9.000
2	0.090	15.000	-0.000	0.000	-0.000	-0.000	9.000
2	0.120	15.000	-0.000	0.000	-0.000	-0.000	9.000
2	0.150	15.000	-0.000	0.000	-0.000	-0.000	9.000
2	0.180	15.000	-0.000	0.000	-0.000	-0.000	9.000
2	0.210	15.000	-0.000	0.000	-0.000	-0.000	9.000
2	0.240	15.000	-0.000	0.000	-0.000	-0.000	9.000
2	0.270	15.000	-0.000	0.000	-0.000	-0.000	9.000
2	0.300	15.000	-0.000	0.000	-0.000	-0.000	9.000
3	0.000	-0.000	-7.500	-0.000	4.500	0.000	0.750*
3	0.020	-0.000	-7.500	0.000	4.500	-0.000	0.600
3	0.040	-0.000	-7.500	0.000	4.500	-0.000	0.450
3	0.060	-0.000	-7.500	0.000	4.500	-0.000	0.300
3	0.080	-0.000	-7.500	0.000	4.500	-0.000	0.150
3	0.100	-0.000	-7.500	0.000	4.500	0.000	0.000
3	0.120	-0.000	-7.500	0.000	4.500	0.000	-0.150
3	0.140	-0.000	-7.500	0.000	4.500	0.000	-0.300
3	0.160	-0.000	-7.500	0.000	4.500	0.000	-0.450
3	0.180	-0.000	-7.500	0.000	4.500	-0.000	-0.600
3	0.200	-0.000	-7.500	0.000	4.500	-0.000	-0.750#
4	0.000	0.000	7.500	-0.000	-4.500	-0.000	-0.750#
4	0.020	0.000	7.500	-0.000	-4.500	0.000	-0.600
4	0.040	0.000	7.500	-0.000	-4.500	0.000	-0.450
4	0.060	0.000	7.500	-0.000	-4.500	0.000	-0.300
4	0.080	0.000	7.500	-0.000	-4.500	0.000	-0.150
4	0.100	0.000	7.500	-0.000	-4.500	-0.000	-0.000
4	0.120	0.000	7.500	-0.000	-4.500	-0.000	0.150
4	0.140	0.000	7.500	-0.000	-4.500	-0.000	0.300
4	0.160	0.000	7.500	-0.000	-4.500	-0.000	0.450
4	0.180	0.000	7.500	0.000	-4.500	-0.000	0.600
4	0.200	0.000	7.500	0.000	-4.500	-0.000	0.750*
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5	0.095	0.000	0.000	0.000	0.000	0.000	0.000
5	0.190	0.000	0.000	0.000	0.000	0.000	0.000
5	0.285	0.000	0.000	0.000	0.000	0.000	0.000
5	0.379	0.000	0.000	0.000	0.000	0.000	0.000
5	0.474	0.000	0.000	0.000	0.000	0.000	0.000
5	0.569	0.000	0.000	0.000	0.000	0.000	0.000
5	0.664	0.000	0.000	0.000	0.000	0.000	0.000
5	0.759	0.000	0.000	0.000	0.000	0.000	0.000
5	0.854	0.000	0.000	0.000	0.000	0.000	0.000
5	0.949	0.000	0.000	0.000	0.000	0.000	0.000
6	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6	0.095	0.000	0.000	0.000	0.000	0.000	0.000
6	0.190	0.000	0.000	0.000	0.000	0.000	0.000
6	0.285	0.000	0.000	0.000	0.000	0.000	0.000
6	0.379	0.000	0.000	0.000	0.000	0.000	0.000
6	0.474	0.000	0.000	0.000	0.000	0.000	0.000
6	0.569	0.000	0.000	0.000	0.000	0.000	0.000

6	0.664	0.000	0.000	0.000	0.000	0.000	0.000
6	0.759	0.000	0.000	0.000	0.000	0.000	0.000
6	0.854	0.000	0.000	0.000	0.000	0.000	0.000
6	0.949	0.000	0.000	0.000	0.000	0.000	0.000
7	0.000	0.000	15.000	0.000	0.000	-0.000	-4.500#
7	0.030	-0.000	15.000	-0.000	0.000	0.000	-4.050
7	0.060	-0.000	15.000	-0.000	0.000	0.000	-3.600
7	0.090	-0.000	15.000	-0.000	0.000	0.000	-3.150
7	0.120	-0.000	15.000	-0.000	0.000	0.000	-2.700
7	0.150	-0.000	15.000	-0.000	0.000	0.000	-2.250
7	0.180	0.000	15.000	-0.000	0.000	0.000	-1.800
7	0.210	0.000	15.000	0.000	0.000	0.000	-1.350
7	0.240	-0.000	15.000	0.000	0.000	-0.000	-0.900
7	0.270	0.000	15.000	0.000	0.000	0.000	-0.450
7	0.300	0.000	15.000	0.000	0.000	0.000	-0.000*
8	0.000	57.481	0.000	0.000	0.000	-0.000	0.000
8	0.042	57.481	0.000	0.000	-0.000	-0.000	-0.000
8	0.085	57.481	0.000	0.000	-0.000	-0.000	-0.000
8	0.127	57.481	0.000	0.000	-0.000	-0.000	-0.000
8	0.170	57.481	0.000	0.000	-0.000	-0.000	-0.000
8	0.212	57.481	0.000	0.000	-0.000	-0.000	-0.000
8	0.255	57.481	0.000	0.000	-0.000	-0.000	0.000
8	0.297	57.481	-0.000	0.000	-0.000	-0.000	0.000
8	0.339	57.481	0.000	0.000	-0.000	-0.000	0.000
8	0.382	57.481	-0.000	0.000	-0.000	-0.000	0.000
8	0.424	57.481	-0.000	0.000	-0.000	-0.000	0.000

DISPLACEMENTS (m, mm, rad)

= Minimum, * = Maximum

Member	Station Location	Global X Translation	Global Y Translation	Global Z Translation	Total Translation	Global X Rotation	Global Y Rotation	Global Z Rotation
0	0.000	50.112#	-0.077#	-0.000	50.112#	-0.000	0.000	-0.106
0	0.030	50.120	-3.244	-0.000	50.225	-0.000	0.000	-0.105
0	0.060	50.128	-6.369	-0.000	50.531	-0.000	0.000	-0.104
0	0.090	50.135	-9.465	-0.000	51.021	-0.000	0.000	-0.103#
0	0.120	50.143	-12.545	-0.000	51.688	-0.000	0.000	-0.103#
0	0.150	50.151	-15.622	-0.000	52.527	-0.000	0.000	-0.103#
0	0.180	50.158	-18.712	-0.000	53.535	-0.000	0.000	-0.103#
0	0.210	50.166	-21.826	-0.000	54.708	-0.000	0.000	-0.104
0	0.240	50.173	-24.979	-0.000	56.047	-0.000	0.000	-0.106
0	0.270	50.181	-28.184	-0.000	57.554	-0.000	0.000	-0.108
0	0.300	50.189*	-31.454*	-0.000	59.230*	-0.000	0.000	-0.110*
1	0.000	50.112*	-0.077#	-0.000	50.112*	-0.000	0.000	-0.106
1	0.030	46.895	-0.082	-0.000	46.895	-0.000	0.000	-0.108
1	0.060	43.643	-0.087	-0.000	43.643	-0.000	0.000	-0.109*
1	0.090	40.378	-0.092	-0.000	40.378	-0.000	0.000	-0.109*
1	0.120	37.121	-0.097	-0.000	37.122	-0.000	0.000	-0.108
1	0.150	33.894	-0.101	-0.000	33.894	-0.000	0.000	-0.107
1	0.180	30.718	-0.106	-0.000	30.718	-0.000	0.000	-0.105
1	0.210	27.613	-0.111	-0.000	27.614	-0.000	0.000	-0.102
1	0.240	24.603	-0.116	-0.000	24.603	-0.000	0.000	-0.099
1	0.270	21.707	-0.121	-0.000	21.708	-0.000	0.000	-0.094
1	0.300	18.948#	-0.126*	-0.000	18.949#	-0.000	0.000	-0.089#
2	0.000	18.948*	-0.126*	-0.000	18.949*	-0.000	0.000	-0.089*
2	0.030	16.343	-0.123	-0.000	16.344	-0.000	0.000	-0.084
2	0.060	13.896	-0.120	-0.000	13.897	-0.000	0.000	-0.079
2	0.090	11.607	-0.117	-0.000	11.607	-0.000	0.000	-0.074
2	0.120	9.475	-0.114	-0.000	9.476	-0.000	0.000	-0.068
2	0.150	7.502	-0.111	-0.000	7.502	-0.000	0.000	-0.063
2	0.180	5.686	-0.109	-0.000	5.687	-0.000	0.000	-0.058
2	0.210	4.028	-0.106	-0.000	4.029	-0.000	0.000	-0.053
2	0.240	2.527	-0.103	-0.000	2.529	-0.000	0.000	-0.047
2	0.270	1.185	-0.100	-0.000	1.189	-0.000	0.000	-0.042
2	0.300	0.000#	-0.097#	0.000	0.097#	-0.000	0.000	-0.037#
3	0.000	0.000	-0.097*	0.000	0.097*	-0.000#	0.000	-0.037*
3	0.020	0.000	-0.095	0.000	0.095	0.000#	0.000	-0.033
3	0.040	0.000	-0.087	0.000	0.087	0.000#	0.000	-0.029
3	0.060	0.000	-0.076	0.000	0.076	0.001*	0.000	-0.026
3	0.080	0.000	-0.063	0.000	0.063	0.001*	0.000	-0.022
3	0.100	0.000	-0.049	0.000	0.049	0.001*	0.000	-0.018
3	0.120	0.000	-0.034	0.000	0.034	0.001*	0.000	-0.015
3	0.140	0.000	-0.021	0.000	0.021	0.001*	0.000	-0.011
3	0.160	0.000	-0.010	0.000	0.010	0.000#	0.000	-0.007
3	0.180	-0.000	-0.003	0.000	0.003	0.000#	-0.000	-0.004
3	0.200	0.000	0.000#	0.000	0.000#	0.000#	0.000	0.000#
4	0.000	0.000	0.000#	0.000	0.000#	0.000#	0.000	0.000#
4	0.020	-0.000	-0.003	0.000	0.003	-0.000#	0.000	-0.004

4	0.040	0.000	-0.010	0.000	0.010	-0.000#	-0.000	-0.007
4	0.060	0.000	-0.021	0.000	0.021	-0.001*	-0.000	-0.011
4	0.080	0.000	-0.034	0.000	0.034	-0.001*	-0.000	-0.015
4	0.100	0.000	-0.049	0.000	0.049	-0.001*	-0.000	-0.018
4	0.120	0.000	-0.063	0.000	0.063	-0.001*	-0.000	-0.022
4	0.140	0.000	-0.076	0.000	0.076	-0.001*	-0.000	-0.026
4	0.160	0.000	-0.087	0.000	0.087	-0.000#	-0.000	-0.029
4	0.180	0.000	-0.095	0.000	0.095	-0.000#	0.000	-0.033
4	0.200	0.000	-0.097*	0.000	0.097*	-0.000#	0.000	-0.037*
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5	0.095	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5	0.190	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5	0.285	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5	0.379	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5	0.474	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5	0.569	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5	0.664	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5	0.759	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5	0.854	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5	0.949	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6	0.095	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6	0.190	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6	0.285	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6	0.379	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6	0.474	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6	0.569	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6	0.664	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6	0.759	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6	0.854	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6	0.949	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7	0.000	50.189	-31.454#	-0.000	59.230#	-0.000	0.000	-0.110#
7	0.030	50.189	-34.799	-0.000	61.073	-0.000	0.000	-0.113
7	0.060	50.189	-38.216	-0.000	63.082	-0.000	0.000	-0.115
7	0.090	50.189	-41.695	-0.000	65.249	-0.000	0.000	-0.117
7	0.120	50.189	-45.230	-0.000	67.562	-0.000	0.000	-0.119
7	0.150	50.189	-48.812	-0.000	70.011	-0.000	0.000	-0.120
7	0.180	50.189	-52.434	-0.000	72.582	-0.000	0.000	-0.121
7	0.210	50.189	-56.087	-0.000	75.264	-0.000	0.000	-0.122
7	0.240	50.189	-59.764	-0.000	78.042	-0.000	0.000	-0.123*
7	0.270	50.189	-63.456	-0.000	80.905	-0.000	0.000	-0.123*
7	0.300	50.189	-67.157*	-0.000	83.839*	-0.000	0.000	-0.123*
8	0.000	18.948#	-0.126#	0.000	18.949#	0.000	0.000	-0.104
8	0.042	22.072	-3.258	-0.000	22.311	-0.000	0.000	-0.104
8	0.085	25.196	-6.391	-0.000	25.994	-0.000	0.000	-0.104
8	0.127	28.320	-9.524	-0.000	29.879	-0.000	0.000	-0.104
8	0.170	31.444	-12.657	-0.000	33.896	-0.000	0.000	-0.104
8	0.212	34.568	-15.790	-0.000	38.004	-0.000	0.000	-0.104
8	0.255	37.692	-18.923	-0.000	42.176	-0.000	0.000	-0.104
8	0.297	40.816	-22.055	-0.000	46.394	-0.000	0.000	-0.104
8	0.339	43.941	-25.188	-0.000	50.648	-0.000	0.000	-0.104
8	0.382	47.065	-28.321	-0.000	54.929	-0.000	0.000	-0.104
8	0.424	50.189*	-31.454*	0.000	59.230*	0.000	0.000	-0.104

LOCAL DISPLACEMENTS (m, mm, rad)

= Minimum, * = Maximum

Member	Station Location	Local X Translation	Local Y Translation	Local Z Translation	Local X Rotation	Local Y Rotation	Local Z Rotation
0	0.000	50.112#	-0.077#	-0.000	-0.000	0.000	-0.106
0	0.030	50.120	-3.244	-0.000	-0.000	0.000	-0.105
0	0.060	50.128	-6.369	-0.000	-0.000	0.000	-0.104
0	0.090	50.135	-9.465	-0.000	-0.000	0.000	-0.103
0	0.120	50.143	-12.545	-0.000	-0.000	0.000	-0.103
0	0.150	50.151	-15.622	-0.000	-0.000	0.000	-0.103
0	0.180	50.158	-18.712	-0.000	-0.000	0.000	-0.103
0	0.210	50.166	-21.826	-0.000	-0.000	0.000	-0.104
0	0.240	50.173	-24.979	-0.000	-0.000	0.000	-0.106
0	0.270	50.181	-28.184	-0.000	-0.000	0.000	-0.108
0	0.300	50.189*	-31.454*	-0.000	-0.000	0.000	-0.110
1	0.000	0.077#	50.112*	-0.000	-0.000	-0.000	-0.106
1	0.030	0.082	46.895	-0.000	-0.000	-0.000	-0.108
1	0.060	0.087	43.643	-0.000	-0.000	-0.000	-0.109
1	0.090	0.092	40.378	-0.000	-0.000	-0.000	-0.109
1	0.120	0.097	37.121	-0.000	-0.000	-0.000	-0.108
1	0.150	0.101	33.894	-0.000	-0.000	-0.000	-0.107
1	0.180	0.106	30.718	-0.000	-0.000	-0.000	-0.105
1	0.210	0.111	27.613	-0.000	-0.000	-0.000	-0.102
1	0.240	0.116	24.603	-0.000	-0.000	-0.000	-0.099

1	0.270	0.121	21.707	-0.000	-0.000	-0.000	-0.094
1	0.300	0.126*	18.948#	-0.000	-0.000	-0.000	-0.089
2	0.000	0.126*	18.948*	-0.000	-0.000	-0.000	-0.089
2	0.030	0.123	16.343	-0.000	-0.000	-0.000	-0.084
2	0.060	0.120	13.896	-0.000	-0.000	-0.000	-0.079
2	0.090	0.117	11.607	-0.000	-0.000	-0.000	-0.074
2	0.120	0.114	9.475	-0.000	-0.000	-0.000	-0.068
2	0.150	0.111	7.502	-0.000	-0.000	-0.000	-0.063
2	0.180	0.109	5.686	-0.000	-0.000	-0.000	-0.058
2	0.210	0.106	4.028	-0.000	-0.000	-0.000	-0.053
2	0.240	0.103	2.527	-0.000	-0.000	-0.000	-0.047
2	0.270	0.100	1.185	-0.000	-0.000	-0.000	-0.042
2	0.300	0.097#	0.000#	0.000	-0.000	-0.000	-0.037
3	0.000	-0.000	-0.097*	0.000	0.037	0.000#	-0.000
3	0.020	-0.000	-0.095	0.000	0.033	0.000#	0.000
3	0.040	-0.000	-0.087	0.000	0.029	0.000#	0.000
3	0.060	-0.000	-0.076	0.000	0.026	0.000#	0.001
3	0.080	-0.000	-0.063	0.000	0.022	0.000#	0.001
3	0.100	-0.000	-0.049	0.000	0.018	0.000#	0.001
3	0.120	-0.000	-0.034	0.000	0.015	0.000#	0.001
3	0.140	-0.000	-0.021	0.000	0.011	0.000#	0.001
3	0.160	-0.000	-0.010	0.000	0.007	0.000#	0.000
3	0.180	-0.000	-0.003	-0.000	0.004	-0.000#	0.000
3	0.200	0.000	0.000#	0.000	0.000	0.000#	0.000
4	0.000	0.000	0.000#	0.000	0.000	0.000#	0.000
4	0.020	-0.000	-0.003	-0.000	0.004	0.000#	-0.000
4	0.040	-0.000	-0.010	0.000	0.007	-0.000#	-0.000
4	0.060	-0.000	-0.021	0.000	0.011	-0.000#	-0.001
4	0.080	-0.000	-0.034	0.000	0.015	-0.000#	-0.001
4	0.100	-0.000	-0.049	0.000	0.018	-0.000#	-0.001
4	0.120	-0.000	-0.063	0.000	0.022	-0.000#	-0.001
4	0.140	-0.000	-0.076	0.000	0.026	-0.000#	-0.001
4	0.160	-0.000	-0.087	0.000	0.029	-0.000#	-0.000
4	0.180	-0.000	-0.095	0.000	0.033	0.000#	-0.000
4	0.200	-0.000	-0.097*	0.000	0.037	0.000#	-0.000
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5	0.095	0.000	0.000	0.000	0.000	0.000	0.000
5	0.190	0.000	0.000	0.000	0.000	0.000	0.000
5	0.285	0.000	0.000	0.000	0.000	0.000	0.000
5	0.379	0.000	0.000	0.000	0.000	0.000	0.000
5	0.474	0.000	0.000	0.000	0.000	0.000	0.000
5	0.569	0.000	0.000	0.000	0.000	0.000	0.000
5	0.664	0.000	0.000	0.000	0.000	0.000	0.000
5	0.759	0.000	0.000	0.000	0.000	0.000	0.000
5	0.854	0.000	0.000	0.000	0.000	0.000	0.000
5	0.949	0.000	0.000	0.000	0.000	0.000	0.000
6	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6	0.095	0.000	0.000	0.000	0.000	0.000	0.000
6	0.190	0.000	0.000	0.000	0.000	0.000	0.000
6	0.285	0.000	0.000	0.000	0.000	0.000	0.000
6	0.379	0.000	0.000	0.000	0.000	0.000	0.000
6	0.474	0.000	0.000	0.000	0.000	0.000	0.000
6	0.569	0.000	0.000	0.000	0.000	0.000	0.000
6	0.664	0.000	0.000	0.000	0.000	0.000	0.000
6	0.759	0.000	0.000	0.000	0.000	0.000	0.000
6	0.854	0.000	0.000	0.000	0.000	0.000	0.000
6	0.949	0.000	0.000	0.000	0.000	0.000	0.000
7	0.000	50.189	-31.454#	-0.000	-0.000	0.000	-0.110
7	0.030	50.189	-34.799	-0.000	-0.000	0.000	-0.113
7	0.060	50.189	-38.216	-0.000	-0.000	0.000	-0.115
7	0.090	50.189	-41.695	-0.000	-0.000	0.000	-0.117
7	0.120	50.189	-45.230	-0.000	-0.000	0.000	-0.119
7	0.150	50.189	-48.812	-0.000	-0.000	0.000	-0.120
7	0.180	50.189	-52.434	-0.000	-0.000	0.000	-0.121
7	0.210	50.189	-56.087	-0.000	-0.000	0.000	-0.122
7	0.240	50.189	-59.764	-0.000	-0.000	0.000	-0.123
7	0.270	50.189	-63.456	-0.000	-0.000	0.000	-0.123
7	0.300	50.189	-67.157*	-0.000	-0.000	0.000	-0.123
8	0.000	13.310*	-13.487#	0.000	0.000	0.000	-0.104
8	0.042	13.303	-17.911	-0.000	-0.000	0.000	-0.104
8	0.085	13.297	-22.336	-0.000	-0.000	0.000	-0.104
8	0.127	13.291	-26.760	-0.000	-0.000	0.000	-0.104
8	0.170	13.285	-31.184	-0.000	-0.000	0.000	-0.104
8	0.212	13.279	-35.609	-0.000	-0.000	0.000	-0.104
8	0.255	13.272	-40.033	-0.000	-0.000	0.000	-0.104
8	0.297	13.266	-44.457	-0.000	-0.000	0.000	-0.104
8	0.339	13.260	-48.881	-0.000	-0.000	0.000	-0.104
8	0.382	13.254	-53.306	-0.000	-0.000	0.000	-0.104
8	0.424	13.247#	-57.730*	0.000	0.000	0.000	-0.104

STRESSES (m, MPa)

= Minimum, * = Maximum

Member	Station Location	Axial	Shear Y Shear Z	Top Mom Z Btm Mom Z	Top Mom Y Btm Mom Y	Ax + Top Mom Z Ax + Btm Mom Z	Ax + Top Mom Y Ax + Btm Mom Y
0	0.000	-50.806	-64.945	311.057	-0.000	260.251	-50.806
			-0.000	-311.057	0.000	-361.864	-50.806
0	0.030	-50.806	-64.945	236.120	0.000	185.314	-50.806
			-0.000	-236.120	-0.000	-286.927	-50.806
0	0.060	-50.806	-64.945	161.183	0.000	110.377	-50.806
			-0.000	-161.183	-0.000	-211.990	-50.806
0	0.090	-50.806	-64.945	86.247	0.000	35.440	-50.806
			-0.000	-86.247	-0.000	-137.053	-50.806
0	0.120	-50.806	-64.945	11.310	0.000	-39.497	-50.806
			-0.000	-11.310	-0.000	-62.116	-50.806
0	0.150	-50.806	-64.945	-63.627	0.000	-114.434	-50.806
			-0.000	63.627	-0.000	12.821	-50.806
0	0.180	-50.806	-64.945	-138.564	-0.000	-189.370	-50.806
			-0.000	138.564	0.000	87.758	-50.806
0	0.210	-50.806	-64.945	-213.501	-0.000	-264.307	-50.806
			-0.000	213.501	0.000	162.695	-50.806
0	0.240	-50.806	-64.945	-288.438	-0.000	-339.244	-50.806
			-0.000	288.438	0.000	237.632	-50.806
0	0.270	-50.806	-64.945	-363.375	-0.000	-414.181	-50.806
			-0.000	363.375	0.000	312.568	-50.806
0	0.300	-50.806	-64.945	-438.312	-0.000	-489.118	-50.806
			-0.000	438.312	0.000	387.505	-50.806
1	0.000	-32.056	102.932	-311.057	-0.000	-343.114	-32.056
			0.000	311.057	0.000	279.001	-32.056
1	0.030	-32.056	102.932	-192.289	-0.000	-224.346	-32.056
			0.000	192.289	0.000	160.233	-32.056
1	0.060	-32.056	102.932	-73.521	-0.000	-105.577	-32.056
			0.000	73.521	0.000	41.465	-32.056
1	0.090	-32.056	102.932	45.247	0.000	13.191	-32.056
			0.000	-45.247	-0.000	-77.303	-32.056
1	0.120	-32.056	102.932	164.015	0.000	131.959	-32.056
			0.000	-164.015	-0.000	-196.071	-32.056
1	0.150	-32.056	102.932	282.783	0.000	250.727	-32.056
			0.000	-282.783	-0.000	-314.839	-32.056
1	0.180	-32.056	102.932	401.551	0.000	369.495	-32.056
			0.000	-401.551	-0.000	-433.607	-32.056
1	0.210	-32.056	102.932	520.319	0.000	488.263	-32.056
			0.000	-520.319	-0.000	-552.376	-32.056
1	0.240	-32.056	102.932	639.087	0.000	607.031	-32.056
			0.000	-639.087	-0.000	-671.144	-32.056
1	0.270	-32.056	102.932	757.855	0.000	725.799	-32.056
			0.000	-757.855	-0.000	-789.912	-32.056
1	0.300	-32.056	102.932	876.623	0.000	844.567	-32.056
			0.000	-876.623	-0.000	-908.680	-32.056
2	0.000	18.750	-0.000	876.623	-0.000	895.373	18.750
			0.000	-876.623	0.000	-857.873	18.750
2	0.030	18.750	-0.000	876.623	-0.000	895.373	18.750
			0.000	-876.623	0.000	-857.873	18.750
2	0.060	18.750	-0.000	876.623	-0.000	895.373	18.750
			0.000	-876.623	0.000	-857.873	18.750
2	0.090	18.750	-0.000	876.623	-0.000	895.373	18.750
			0.000	-876.623	0.000	-857.873	18.750
2	0.120	18.750	-0.000	876.623	-0.000	895.373	18.750
			0.000	-876.623	0.000	-857.873	18.750
2	0.150	18.750	-0.000	876.623	-0.000	895.373	18.750
			0.000	-876.623	0.000	-857.873	18.750
2	0.180	18.750	-0.000	876.623	-0.000	895.373	18.750
			0.000	-876.623	0.000	-857.873	18.750
2	0.210	18.750	-0.000	876.623	-0.000	895.373	18.750
			0.000	-876.623	0.000	-857.873	18.750
2	0.240	18.750	-0.000	876.623	-0.000	895.373	18.750
			0.000	-876.623	0.000	-857.873	18.750
2	0.270	18.750	-0.000	876.623	-0.000	895.373	18.750
			0.000	-876.623	0.000	-857.873	18.750
2	0.300	18.750	-0.000	876.623	-0.000	895.373	18.750
			0.000	-876.623	0.000	-857.873	18.750
3	0.000	-0.000	-18.994	73.052	0.000	73.052	0.000
			-0.000	-73.052	-0.000	-73.052	-0.000
3	0.020	-0.000	-18.994	58.442	-0.000	58.442	-0.000
			0.000	-58.442	0.000	-58.442	0.000
3	0.040	-0.000	-18.994	43.831	-0.000	43.831	-0.000
			0.000	-43.831	0.000	-43.831	0.000
3	0.060	-0.000	-18.994	29.221	-0.000	29.221	-0.000
			0.000	-29.221	0.000	-29.221	0.000
3	0.080	-0.000	-18.994	14.610	-0.000	14.610	-0.000
			0.000	-14.610	0.000	-14.610	0.000

3	0.100	-0.000	-18.994	0.000	0.000	0.000	0.000
			0.000	-0.000	-0.000	-0.000	-0.000
3	0.120	-0.000	-18.994	-14.610	0.000	-14.610	0.000
			0.000	14.610	-0.000	14.610	-0.000
3	0.140	-0.000	-18.994	-29.221	0.000	-29.221	0.000
			0.000	29.221	-0.000	29.221	-0.000
3	0.160	-0.000	-18.994	-43.831	0.000	-43.831	0.000
			0.000	43.831	-0.000	43.831	-0.000
3	0.180	-0.000	-18.994	-58.442	-0.000	-58.442	-0.000
			0.000	58.442	0.000	58.442	0.000
3	0.200	-0.000	-18.994	-73.052	-0.000	-73.052	-0.000
			0.000	73.052	0.000	73.052	0.000
4	0.000	0.000	18.994	-73.052	-0.000	-73.052	-0.000
			-0.000	73.052	0.000	73.052	0.000
4	0.020	0.000	18.994	-58.442	0.000	-58.442	0.000
			-0.000	58.442	-0.000	58.442	-0.000
4	0.040	0.000	18.994	-43.831	0.000	-43.831	0.000
			-0.000	43.831	-0.000	43.831	-0.000
4	0.060	0.000	18.994	-29.221	0.000	-29.221	0.000
			-0.000	29.221	-0.000	29.221	-0.000
4	0.080	0.000	18.994	-14.610	0.000	-14.610	0.000
			-0.000	14.610	-0.000	14.610	-0.000
4	0.100	0.000	18.994	-0.000	-0.000	-0.000	-0.000
			-0.000	0.000	0.000	0.000	0.000
4	0.120	0.000	18.994	14.610	-0.000	14.610	-0.000
			-0.000	-14.610	0.000	-14.610	0.000
4	0.140	0.000	18.994	29.221	-0.000	29.221	-0.000
			-0.000	-29.221	0.000	-29.221	0.000
4	0.160	0.000	18.994	43.831	-0.000	43.831	-0.000
			-0.000	-43.831	0.000	-43.831	0.000
4	0.180	0.000	18.994	58.442	-0.000	58.442	-0.000
			0.000	-58.442	0.000	-58.442	0.000
4	0.200	0.000	18.994	73.052	-0.000	73.052	-0.000
			0.000	-73.052	0.000	-73.052	0.000
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			0.000	0.000	0.000	0.000	0.000
5	0.095	0.000	0.000	0.000	0.000	0.000	0.000
			0.000	0.000	0.000	0.000	0.000
5	0.190	0.000	0.000	0.000	0.000	0.000	0.000
			0.000	0.000	0.000	0.000	0.000
5	0.285	0.000	0.000	0.000	0.000	0.000	0.000
			0.000	0.000	0.000	0.000	0.000
5	0.379	0.000	0.000	0.000	0.000	0.000	0.000
			0.000	0.000	0.000	0.000	0.000
5	0.474	0.000	0.000	0.000	0.000	0.000	0.000
			0.000	0.000	0.000	0.000	0.000
5	0.569	0.000	0.000	0.000	0.000	0.000	0.000
			0.000	0.000	0.000	0.000	0.000
5	0.664	0.000	0.000	0.000	0.000	0.000	0.000
			0.000	0.000	0.000	0.000	0.000
5	0.759	0.000	0.000	0.000	0.000	0.000	0.000
			0.000	0.000	0.000	0.000	0.000
5	0.854	0.000	0.000	0.000	0.000	0.000	0.000
			0.000	0.000	0.000	0.000	0.000
5	0.949	0.000	0.000	0.000	0.000	0.000	0.000
			0.000	0.000	0.000	0.000	0.000
6	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			0.000	0.000	0.000	0.000	0.000
6	0.095	0.000	0.000	0.000	0.000	0.000	0.000
			0.000	0.000	0.000	0.000	0.000
6	0.190	0.000	0.000	0.000	0.000	0.000	0.000
			0.000	0.000	0.000	0.000	0.000
6	0.285	0.000	0.000	0.000	0.000	0.000	0.000
			0.000	0.000	0.000	0.000	0.000
6	0.379	0.000	0.000	0.000	0.000	0.000	0.000
			0.000	0.000	0.000	0.000	0.000
6	0.474	0.000	0.000	0.000	0.000	0.000	0.000
			0.000	0.000	0.000	0.000	0.000
6	0.569	0.000	0.000	0.000	0.000	0.000	0.000
			0.000	0.000	0.000	0.000	0.000
6	0.664	0.000	0.000	0.000	0.000	0.000	0.000
			0.000	0.000	0.000	0.000	0.000
6	0.759	0.000	0.000	0.000	0.000	0.000	0.000
			0.000	0.000	0.000	0.000	0.000
6	0.854	0.000	0.000	0.000	0.000	0.000	0.000
			0.000	0.000	0.000	0.000	0.000
6	0.949	0.000	0.000	0.000	0.000	0.000	0.000
			0.000	0.000	0.000	0.000	0.000
7	0.000	0.000	37.987	-438.312	-0.000	-438.312	0.000
			0.000	438.312	0.000	438.312	0.000
7	0.030	-0.000	37.987	-394.481	0.000	-394.481	-0.000
			-0.000	394.481	-0.000	394.481	-0.000
7	0.060	-0.000	37.987	-350.649	0.000	-350.649	-0.000

			-0.000	350.649	-0.000	350.649	-0.000
7	0.090	-0.000	37.987	-306.818	0.000	-306.818	-0.000
			-0.000	306.818	-0.000	306.818	-0.000
7	0.120	-0.000	37.987	-262.987	0.000	-262.987	-0.000
			-0.000	262.987	-0.000	262.987	-0.000
7	0.150	-0.000	37.987	-219.156	0.000	-219.156	-0.000
			-0.000	219.156	-0.000	219.156	-0.000
7	0.180	0.000	37.987	-175.325	0.000	-175.325	0.000
			-0.000	175.325	-0.000	175.325	-0.000
7	0.210	0.000	37.987	-131.494	0.000	-131.494	0.000
			0.000	131.494	-0.000	131.494	-0.000
7	0.240	-0.000	37.987	-87.662	-0.000	-87.662	-0.000
			0.000	87.662	0.000	87.662	-0.000
7	0.270	0.000	37.987	-43.831	0.000	-43.831	0.000
			0.000	43.831	-0.000	43.831	-0.000
7	0.300	0.000	37.987	-0.000	0.000	-0.000	0.000
			0.000	0.000	-0.000	0.000	-0.000
8	0.000	29.275	0.000	0.000	-0.000	29.275	29.275
			0.000	0.000	0.000	29.275	29.275
8	0.042	29.275	0.000	-0.000	-0.000	29.275	29.275
			0.000	0.000	0.000	29.275	29.275
8	0.085	29.275	0.000	-0.000	-0.000	29.275	29.275
			0.000	0.000	0.000	29.275	29.275
8	0.127	29.275	0.000	-0.000	-0.000	29.275	29.275
			0.000	0.000	0.000	29.275	29.275
8	0.170	29.275	0.000	-0.000	-0.000	29.275	29.275
			0.000	0.000	0.000	29.275	29.275
8	0.212	29.275	0.000	-0.000	-0.000	29.275	29.275
			0.000	0.000	0.000	29.275	29.275
8	0.255	29.275	0.000	0.000	-0.000	29.275	29.275
			0.000	-0.000	0.000	29.275	29.275
8	0.297	29.275	-0.000	0.000	-0.000	29.275	29.275
			0.000	-0.000	0.000	29.275	29.275
8	0.339	29.275	0.000	0.000	-0.000	29.275	29.275
			0.000	-0.000	0.000	29.275	29.275
8	0.382	29.275	-0.000	0.000	-0.000	29.275	29.275
			0.000	-0.000	0.000	29.275	29.275
8	0.424	29.275	-0.000	0.000	-0.000	29.275	29.275
			0.000	0.000	0.000	29.275	29.275

END