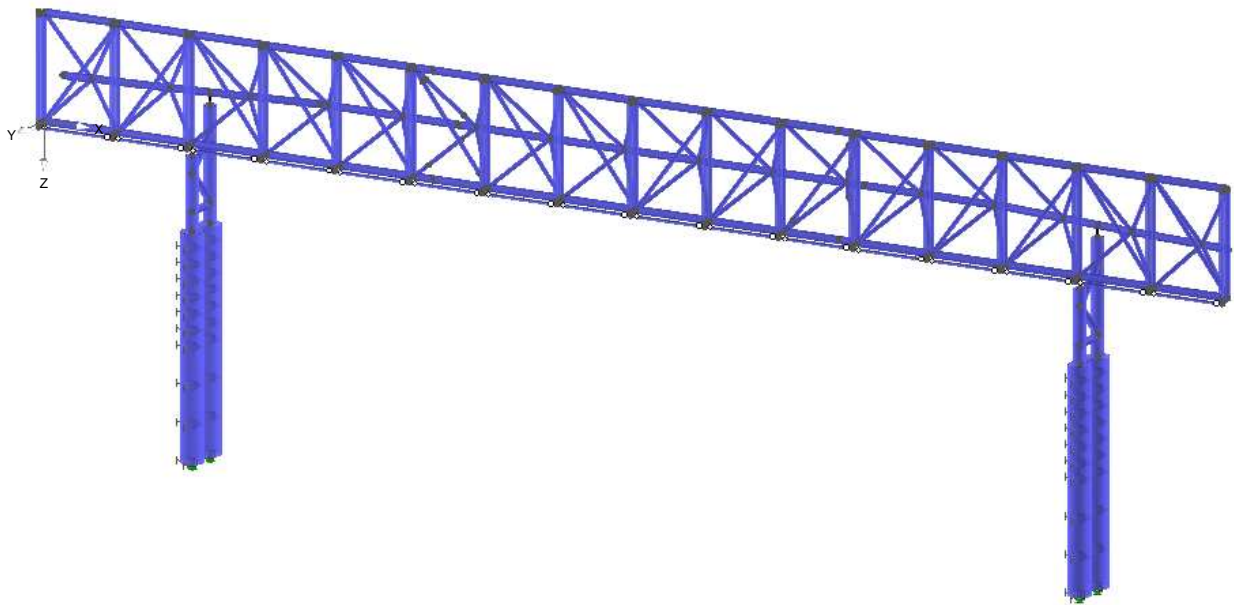


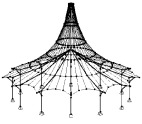
Project: [REDACTED] Structure: **Dafni Konstantinidi -
Sofrona (RSTAB)**

Date: 11.08.2011

■ **STRUCTURE**

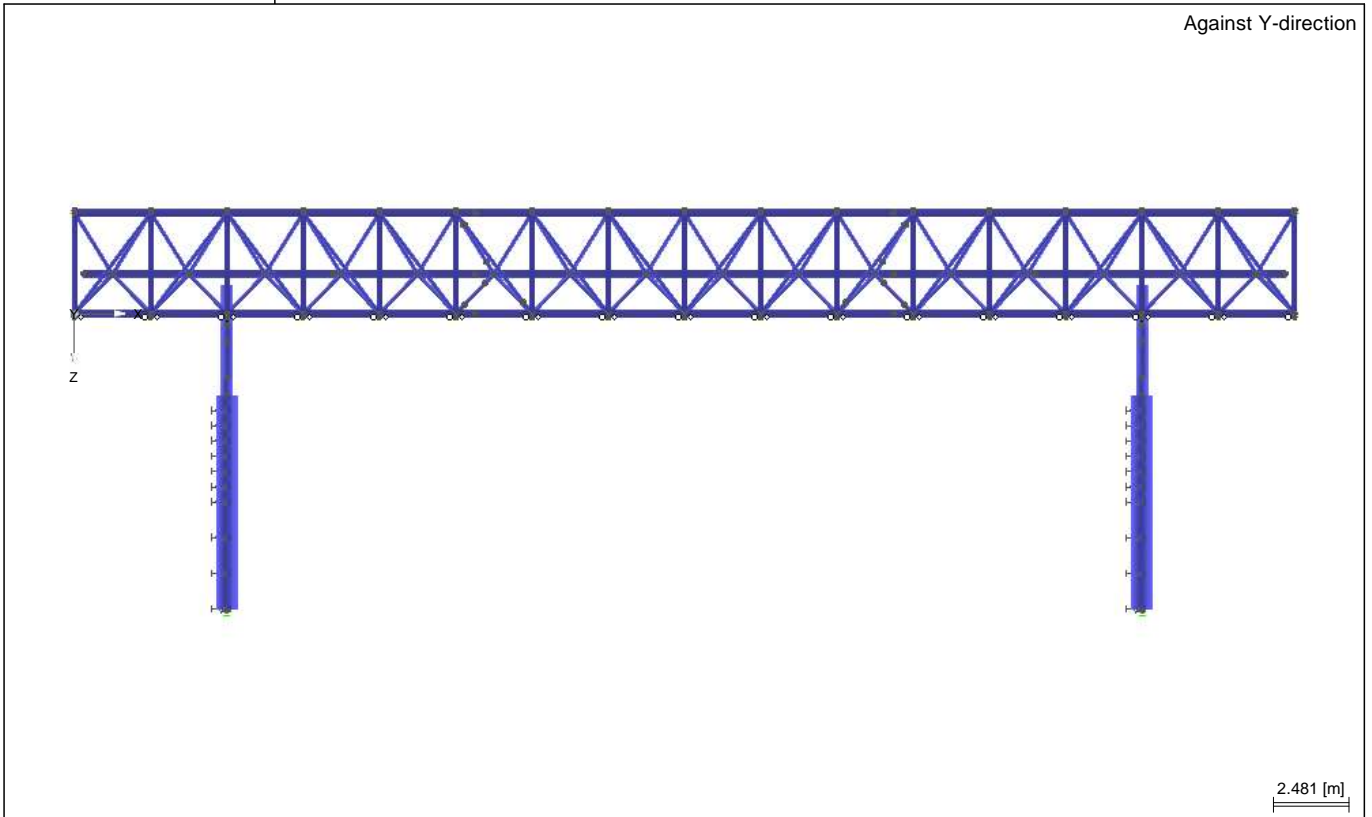
Isometric



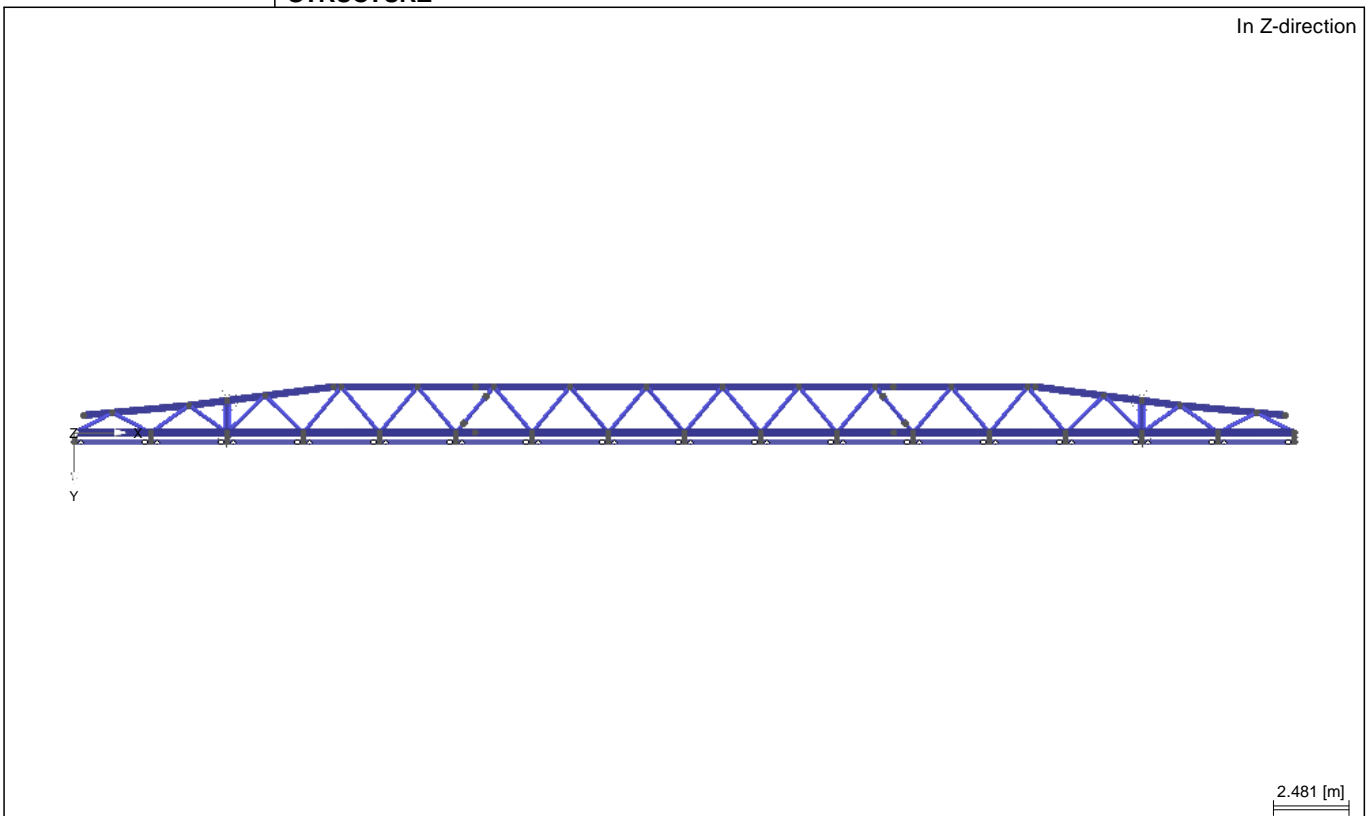


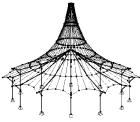
Project: [redacted] Structure: **Dafni Konstantinidi - Sofrona (RSTAB)**

■ **STRUCTURE**



■ **STRUCTURE**





Project: Structure: **Dafni Konstantinidi - Sofrona (RSTAB)**

Date: 11.08.2011

GENERAL DATA

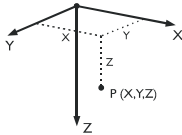
COMPUTING METHOD

- Structural Analysis
- Design
- Dynamic Analysis
- Linear Static Analysis
- Second-Order Analysis (Non-linear, Timoshenko)
- Large Deformation Analysis (Non-linear, Newton-Raphson)
- Postcritical Analysis (Non-linear, Newton-Raphson)
- Load Cases
- Load Groups
- Load Combinations
- Design Cases
- Dynamic Cases
- Buckling Curves

STRUCTURAL DATA PARAMETERS

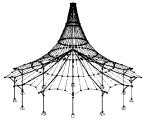
- 1D Continuous Beam
- 2D Construction Type
- 3D Construction Type
- Grid
- 234 Nodes
- 1 Materials
- 8 Sections
- 4 Element Hinges
- 0 Element Partitions
- 364 Elements
- 0 Cables
- 0 Tapered Elements
- 36 Elastic Foundations
- 0 Sets of Elements

Cartesian



1.1 NODES

Node No.	Reference Node	Coordinate System	Node coordinates			Comment
			X [m]	Y [m]	Z [m]	
101	-	Cartesian	0.000	0.000	0.000	
102	-	Cartesian	2.500	0.000	0.000	
103	-	Cartesian	5.000	0.000	0.000	
104	-	Cartesian	7.500	0.000	0.000	
105	-	Cartesian	10.000	0.000	0.000	
106	-	Cartesian	12.500	0.000	0.000	
107	-	Cartesian	13.145	0.000	0.000	
108	-	Cartesian	15.000	0.000	0.000	
109	-	Cartesian	17.500	0.000	0.000	
110	-	Cartesian	20.000	0.000	0.000	
111	-	Cartesian	22.500	0.000	0.000	
112	-	Cartesian	25.000	0.000	0.000	
113	-	Cartesian	26.855	0.000	0.000	
114	-	Cartesian	27.500	0.000	0.000	
115	-	Cartesian	30.000	0.000	0.000	
116	-	Cartesian	32.500	0.000	0.000	
117	-	Cartesian	35.000	0.000	0.000	
118	-	Cartesian	37.500	0.000	0.000	
120	-	Cartesian	40.000	0.000	0.000	
201	-	Cartesian	0.296	-0.567	-1.300	
202	-	Cartesian	3.750	-0.889	-1.300	
203	-	Cartesian	5.000	-1.050	-1.300	
204	-	Cartesian	6.250	-1.211	-1.300	
205	-	Cartesian	8.492	-1.502	-1.300	
207	-	Cartesian	8.750	-1.500	-1.300	
208	-	Cartesian	11.250	-1.500	-1.300	
209	-	Cartesian	13.145	-1.500	-1.300	
211	-	Cartesian	13.750	-1.500	-1.300	
212	-	Cartesian	16.250	-1.500	-1.300	
213	-	Cartesian	18.750	-1.500	-1.300	
214	-	Cartesian	21.250	-1.500	-1.300	
215	-	Cartesian	23.750	-1.500	-1.300	
216	-	Cartesian	26.250	-1.500	-1.300	
217	-	Cartesian	26.855	-1.500	-1.300	
218	-	Cartesian	28.750	-1.500	-1.300	
219	-	Cartesian	31.250	-1.500	-1.300	
220	-	Cartesian	31.508	-1.500	-1.300	
221	-	Cartesian	33.750	-1.211	-1.300	
222	-	Cartesian	35.000	-1.050	-1.300	
223	-	Cartesian	36.250	-0.889	-1.300	
224	-	Cartesian	39.704	-0.567	-1.300	
301	-	Cartesian	0.000	0.000	-3.300	
302	-	Cartesian	2.500	0.000	-3.300	
303	-	Cartesian	5.000	0.000	-3.300	
304	-	Cartesian	7.500	0.000	-3.300	
305	-	Cartesian	10.000	0.000	-3.300	
306	-	Cartesian	12.500	0.000	-3.300	
307	-	Cartesian	13.145	0.000	-3.300	
308	-	Cartesian	15.000	0.000	-3.300	
309	-	Cartesian	17.500	0.000	-3.300	
310	-	Cartesian	20.000	0.000	-3.300	
311	-	Cartesian	22.500	0.000	-3.300	
312	-	Cartesian	25.000	0.000	-3.300	
313	-	Cartesian	26.855	0.000	-3.300	
314	-	Cartesian	27.500	0.000	-3.300	
315	-	Cartesian	30.000	0.000	-3.300	
316	-	Cartesian	32.500	0.000	-3.300	
317	-	Cartesian	35.000	0.000	-3.300	
318	-	Cartesian	37.500	0.000	-3.300	
319	-	Cartesian	40.000	0.000	-3.300	
601	-	Cartesian	0.000	0.309	-3.391	

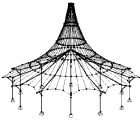


Project: Structure: **Dafni Konstantinidi - Sofrona (RSTAB)**

Date: 11.08.2011

1.1 NODES

Node No.	Reference Node	Coordinate System	Node coordinates			Comment
			X [m]	Y [m]	Z [m]	
602	-	Cartesian	0.000	0.309	-3.300	
603	-	Cartesian	0.000	0.309	0.000	
604	-	Cartesian	0.000	0.309	0.109	
605	-	Cartesian	2.500	0.309	-3.391	
606	-	Cartesian	2.500	0.309	-3.300	
607	-	Cartesian	2.500	0.309	0.000	
608	-	Cartesian	2.500	0.309	0.109	
609	-	Cartesian	5.000	0.309	-3.391	
610	-	Cartesian	5.000	0.309	-3.300	
611	-	Cartesian	5.000	0.309	0.000	
612	-	Cartesian	5.000	0.309	0.109	
613	-	Cartesian	7.500	0.309	-3.391	
614	-	Cartesian	7.500	0.309	-3.300	
615	-	Cartesian	7.500	0.309	0.000	
616	-	Cartesian	7.500	0.309	0.109	
617	-	Cartesian	10.000	0.309	-3.391	
618	-	Cartesian	10.000	0.309	-3.300	
619	-	Cartesian	10.000	0.309	0.000	
620	-	Cartesian	10.000	0.309	0.109	
621	-	Cartesian	12.500	0.309	-3.391	
622	-	Cartesian	12.500	0.309	-3.300	
623	-	Cartesian	12.500	0.309	0.000	
624	-	Cartesian	12.500	0.309	0.109	
625	-	Cartesian	15.000	0.309	-3.391	
626	-	Cartesian	15.000	0.309	-3.300	
627	-	Cartesian	15.000	0.309	0.000	
628	-	Cartesian	15.000	0.309	0.109	
629	-	Cartesian	17.500	0.309	-3.391	
630	-	Cartesian	17.500	0.309	-3.300	
631	-	Cartesian	17.500	0.309	0.000	
632	-	Cartesian	17.500	0.309	0.109	
633	-	Cartesian	20.000	0.309	-3.391	
634	-	Cartesian	20.000	0.309	-3.300	
635	-	Cartesian	20.000	0.309	0.000	
636	-	Cartesian	20.000	0.309	0.109	
637	-	Cartesian	22.500	0.309	-3.391	
638	-	Cartesian	22.500	0.309	-3.300	
639	-	Cartesian	22.500	0.309	0.000	
640	-	Cartesian	22.500	0.309	0.109	
641	-	Cartesian	25.000	0.309	-3.391	
642	-	Cartesian	25.000	0.309	-3.300	
643	-	Cartesian	25.000	0.309	0.000	
644	-	Cartesian	25.000	0.309	0.109	
645	-	Cartesian	27.500	0.309	-3.391	
646	-	Cartesian	27.500	0.309	-3.300	
647	-	Cartesian	27.500	0.309	0.000	
648	-	Cartesian	27.500	0.309	0.109	
649	-	Cartesian	30.000	0.309	-3.391	
650	-	Cartesian	30.000	0.309	-3.300	
651	-	Cartesian	30.000	0.309	0.000	
652	-	Cartesian	30.000	0.309	0.109	
653	-	Cartesian	32.500	0.309	-3.391	
654	-	Cartesian	32.500	0.309	-3.300	
655	-	Cartesian	32.500	0.309	0.000	
656	-	Cartesian	32.500	0.309	0.109	
657	-	Cartesian	35.000	0.309	-3.391	
658	-	Cartesian	35.000	0.309	-3.300	
659	-	Cartesian	35.000	0.309	0.000	
660	-	Cartesian	35.000	0.309	0.109	
661	-	Cartesian	37.500	0.309	-3.391	
662	-	Cartesian	37.500	0.309	-3.300	
663	-	Cartesian	37.500	0.309	0.000	
664	-	Cartesian	37.500	0.309	0.109	
665	-	Cartesian	40.000	0.309	-3.391	
666	-	Cartesian	40.000	0.309	-3.300	
667	-	Cartesian	40.000	0.309	0.000	
668	-	Cartesian	40.000	0.309	0.109	
1003	-	Cartesian	0.000	0.138	-3.300	
1004	-	Cartesian	0.000	0.138	0.000	
1010	-	Cartesian	1.246	-0.654	-1.288	
1013	-	Cartesian	2.500	0.138	-3.300	
1014	-	Cartesian	2.500	0.138	0.000	
1021	-	Cartesian	5.000	-1.050	-0.930	
1022	-	Cartesian	5.000	-1.050	-0.139	
1023	-	Cartesian	5.000	-1.050	1.961	
1024	-	Cartesian	5.000	-1.050	2.081	
1025	-	Cartesian	5.000	-1.050	2.669	
1026	-	Cartesian	5.000	-1.050	3.169	
1027	-	Cartesian	5.000	-1.050	3.669	
1028	-	Cartesian	5.000	-1.050	4.169	
1029	-	Cartesian	5.000	-1.050	4.669	
1030	-	Cartesian	5.000	-1.050	5.169	
1031	-	Cartesian	5.000	-1.050	5.669	
1032	-	Cartesian	5.000	-1.050	6.169	
1033	-	Cartesian	5.000	-1.050	7.339	
1034	-	Cartesian	5.000	-1.050	8.504	
1035	-	Cartesian	5.000	-1.050	9.669	
1038	-	Cartesian	5.000	0.000	0.370	

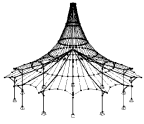


Project: Structure: **Dafni Konstantinidi - Sofrona (RSTAB)**

Date: 11.08.2011

1.1 NODES

Node No.	Reference Node	Coordinate System	Node coordinates			Comment
			X [m]	Y [m]	Z [m]	
1039	-	Cartesian	5.000	0.000	0.911	
1040	-	Cartesian	5.000	0.000	2.081	
1041	-	Cartesian	5.000	0.000	2.669	
1042	-	Cartesian	5.000	0.000	3.169	
1043	-	Cartesian	5.000	0.000	3.669	
1044	-	Cartesian	5.000	0.000	4.169	
1045	-	Cartesian	5.000	0.000	4.669	
1046	-	Cartesian	5.000	0.000	5.169	
1047	-	Cartesian	5.000	0.000	5.669	
1048	-	Cartesian	5.000	0.000	6.169	
1049	-	Cartesian	5.000	0.000	7.339	
1050	-	Cartesian	5.000	0.000	8.504	
1051	-	Cartesian	5.000	0.000	9.669	
1052	-	Cartesian	5.000	0.138	-3.300	
1053	-	Cartesian	5.000	0.138	0.000	
1061	-	Cartesian	7.500	0.138	-3.300	
1062	-	Cartesian	7.500	0.138	0.000	
1072	-	Cartesian	10.000	0.138	-3.300	
1073	-	Cartesian	10.000	0.138	0.000	
1081	-	Cartesian	12.500	0.138	-3.300	
1082	-	Cartesian	12.500	0.138	0.000	
1087	-	Cartesian	12.746	-0.295	-2.906	
1088	-	Cartesian	12.793	-0.352	-0.305	
1089	-	Cartesian	12.793	0.000	-2.913	
1093	-	Cartesian	13.457	-1.148	-0.995	
1094	-	Cartesian	13.504	-1.205	-1.694	
1097	-	Cartesian	14.707	0.000	-0.387	
1100	-	Cartesian	15.000	0.138	-3.300	
1101	-	Cartesian	15.000	0.138	0.000	
1109	-	Cartesian	17.500	0.138	-3.300	
1110	-	Cartesian	17.500	0.138	0.000	
1118	-	Cartesian	20.000	0.138	-3.300	
1119	-	Cartesian	20.000	0.138	0.000	
1127	-	Cartesian	22.500	0.138	-3.300	
1128	-	Cartesian	22.500	0.138	0.000	
1136	-	Cartesian	25.000	0.138	-3.300	
1137	-	Cartesian	25.000	0.138	0.000	
1142	-	Cartesian	25.293	0.000	-0.387	
1144	-	Cartesian	26.496	-1.205	-1.694	
1145	-	Cartesian	26.543	-1.148	-0.995	
1149	-	Cartesian	27.207	-0.352	-0.305	
1150	-	Cartesian	27.207	0.000	-2.913	
1151	-	Cartesian	27.254	-0.295	-2.906	
1154	-	Cartesian	27.500	0.138	-3.300	
1155	-	Cartesian	27.500	0.138	0.000	
1163	-	Cartesian	30.000	0.138	-3.300	
1164	-	Cartesian	30.000	0.138	0.000	
1173	-	Cartesian	32.500	0.138	-3.300	
1174	-	Cartesian	32.500	0.138	0.000	
1181	-	Cartesian	35.000	-1.050	-0.930	
1182	-	Cartesian	35.000	-1.050	-0.139	
1183	-	Cartesian	35.000	-1.050	1.961	
1184	-	Cartesian	35.000	-1.050	2.081	
1185	-	Cartesian	35.000	-1.050	2.669	
1186	-	Cartesian	35.000	-1.050	3.169	
1187	-	Cartesian	35.000	-1.050	3.669	
1188	-	Cartesian	35.000	-1.050	4.169	
1189	-	Cartesian	35.000	-1.050	4.669	
1190	-	Cartesian	35.000	-1.050	5.169	
1191	-	Cartesian	35.000	-1.050	5.669	
1192	-	Cartesian	35.000	-1.050	6.169	
1193	-	Cartesian	35.000	-1.050	7.339	
1194	-	Cartesian	35.000	-1.050	8.504	
1195	-	Cartesian	35.000	-1.050	9.669	
1198	-	Cartesian	35.000	0.000	0.370	
1199	-	Cartesian	35.000	0.000	0.911	
1200	-	Cartesian	35.000	0.000	2.081	
1201	-	Cartesian	35.000	0.000	2.669	
1202	-	Cartesian	35.000	0.000	3.169	
1203	-	Cartesian	35.000	0.000	3.669	
1204	-	Cartesian	35.000	0.000	4.169	
1205	-	Cartesian	35.000	0.000	4.669	
1206	-	Cartesian	35.000	0.000	5.169	
1207	-	Cartesian	35.000	0.000	5.669	
1208	-	Cartesian	35.000	0.000	6.169	
1209	-	Cartesian	35.000	0.000	7.339	
1210	-	Cartesian	35.000	0.000	8.504	
1211	-	Cartesian	35.000	0.000	9.669	
1212	-	Cartesian	35.000	0.138	-3.300	
1213	-	Cartesian	35.000	0.138	0.000	
1221	-	Cartesian	37.500	0.138	-3.300	
1222	-	Cartesian	37.500	0.138	0.000	
1227	-	Cartesian	38.754	-0.656	-1.300	
1233	-	Cartesian	40.000	0.138	-3.300	
2089	-	Cartesian	13.146	-1.500	-1.300	



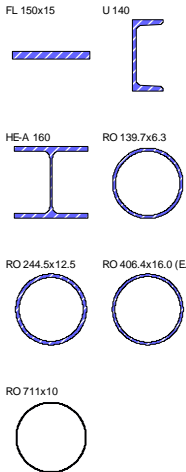
Project: Structure: **Dafni Konstantinidi - Sofrona (RSTAB)**

Date: 11.08.2011

1.2 MATERIALS

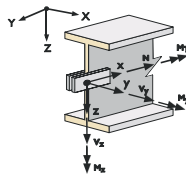
Material No.	Material Description	E-Modulus E [kN/cm ²]	G-Modulus G [kN/cm ²]	Sp. Weight γ [kN/m ³]	Coeff. Thermal α [1/°C]	Saf. Factor γ_m [-]
1	Steel S 235 EN 10025-2: 2004-11 S235J2+N	21000.00	8100.00	78.50	1.2000E-05	1.000

1.3 CROSS-SECTIONS



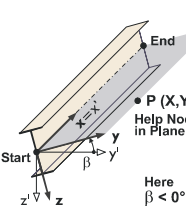
Section No.	Cross-section Description	Mater. No.	I _T [cm ⁴] A [cm ²]	I _y [cm ⁴] A _y [cm ²]	I _z [cm ⁴] A _z [cm ²]	Principal axis α [°]	Crossec. Rot. α' [°]
1	FL 150x15	1	15.81 22.50	4.22 18.75	421.87 18.75	0.00	90.00
2	BFL150*15	1	5.68	605.00	62.70	0.00	0.00
3	U 140	1	20.40	5.89	8.26	0.00	0.00
4	HE-A 160	1	12.30 38.80	1670.00 24.00	616.00 7.83	0.00	0.00
5	HEA160	1	1174.62 26.40	588.62 13.21	588.62 13.21	0.00	0.00
6	RO 139.7x6.3	1	12259.25 91.11	6147.42 45.60	6147.42 45.60	0.00	0.00
7	RO 244.5*12.5	1	100000.00 1000.00	100000.00 1000.00	100000.00 1000.00	0.00	0.00
8	RO 139.7*10.0	1	100000.00 1000.00	100000.00 1000.00	100000.00 1000.00	0.00	0.00
9	RO 244.5*12.5	1	12259.25 91.11	6147.42 45.60	6147.42 45.60	0.00	0.00
10	RO 139.7*10.0	1	12259.25 91.11	6147.42 45.60	6147.42 45.60	0.00	0.00
11	RO 139.7*10.0-MSH	1	74772.05 196.24	37448.82 98.13	37448.82 98.13	0.00	0.00
12	RO 406.4x16.0 (EN 10210-2)	1	74772.05 196.24	37448.82 98.13	37448.82 98.13	0.00	0.00
13	RO 406.4*16.0-MSH	1	270547.75 220.23	135301.41 110.02	135301.40 110.02	0.00	0.00

1.4 MEMBER RELEASES

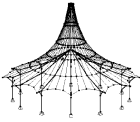


Release No.	Reference System	Force Release or Spring [kN/m]			Moment Release or Spring [kNm/rad]		
		N	V _y	V _z	M _T	M _y	M _z
1	Local x,y,z	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2	Local x,y,z	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
3	Local x,y,z	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4	Local x,y,z	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

1.7 MEMBERS



Member No.	Member	Node		Rotation		Cross-section		Release No.		Ecc. No.	Div. No.	Length L [m]	
		Start	End	Type	β [°]	Start	End	Start	End				
101	Beam	101	102	Angle	0.00	5	5	-	-	-	-	2.500	X
102	Beam	102	103	Angle	0.00	5	5	-	-	-	-	2.500	X
103	Beam	103	104	Angle	0.00	5	5	-	-	-	-	2.500	X
104	Beam	104	105	Angle	0.00	5	5	-	-	-	-	2.500	X
105	Beam	105	106	Angle	0.00	5	5	-	-	-	-	2.500	X
106	Beam	106	107	Angle	0.00	5	5	-	-	-	-	0.645	X
107	Beam	107	108	Angle	0.00	5	5	-	-	-	-	1.855	X
108	Beam	108	109	Angle	0.00	5	5	-	-	-	-	2.500	X
109	Beam	109	110	Angle	0.00	5	5	-	-	-	-	2.500	X
110	Beam	110	111	Angle	0.00	5	5	-	-	-	-	2.500	X
111	Beam	111	112	Angle	0.00	5	5	-	-	-	-	2.500	X
112	Beam	112	113	Angle	0.00	5	5	-	-	-	-	1.855	X
113	Beam	113	114	Angle	0.00	5	5	-	-	-	-	0.645	X
114	Beam	114	115	Angle	0.00	5	5	-	-	-	-	2.500	X
115	Beam	115	116	Angle	0.00	5	5	-	-	-	-	2.500	X
116	Beam	116	117	Angle	0.00	5	5	-	-	-	-	2.500	X
117	Beam	117	118	Angle	0.00	5	5	-	-	-	-	2.500	X
118	Beam	118	120	Angle	0.00	5	5	-	-	-	-	2.500	X
201	Beam	201	202	Angle	0.00	5	5	-	-	-	-	3.469	XY
202	Beam	202	203	Angle	0.00	5	5	-	-	-	-	1.260	XY
203	Beam	203	204	Angle	0.00	5	5	-	-	-	-	1.260	XY
204	Beam	204	205	Angle	0.00	5	5	-	-	-	-	2.261	XY
205	Beam	205	207	Angle	0.00	5	5	-	-	-	-	0.258	XY
206	Beam	207	208	Angle	0.00	5	5	-	-	-	-	2.500	X
207	Beam	208	209	Angle	0.00	5	5	-	-	-	-	1.895	X
208	Beam	209	211	Angle	0.00	5	5	-	-	-	-	0.605	X
209	Beam	211	212	Angle	0.00	5	5	-	-	-	-	2.500	X
210	Beam	212	213	Angle	0.00	5	5	-	-	-	-	2.500	X
211	Beam	213	214	Angle	0.00	5	5	-	-	-	-	2.500	X
212	Beam	214	215	Angle	0.00	5	5	-	-	-	-	2.500	X
213	Beam	215	216	Angle	0.00	5	5	-	-	-	-	2.500	X
214	Beam	216	217	Angle	0.00	5	5	-	-	-	-	0.605	X
215	Beam	217	218	Angle	0.00	5	5	-	-	-	-	1.895	X
216	Beam	218	219	Angle	0.00	5	5	-	-	-	-	2.500	X



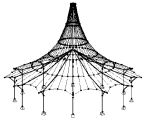
STRUCTURE

Project: Structure: **Dafni Konstantinidi - Sofrona (RSTAB)**

Date: 11.08.2011

1.7 MEMBERS

Member No.	Member	Node		Type	Rotation β [°]	Cross-section		Release No.		Ecc. No.	Div. No.	Length L [m]	
		Start	End			Start	End	Start	End				
217	Beam	219	220	Angle	0.00	5	5	-	-	-	-	0.258	XY
218	Beam	220	221	Angle	0.00	5	5	-	-	-	-	2.261	XY
219	Beam	221	222	Angle	0.00	5	5	-	-	-	-	1.260	XY
220	Beam	222	223	Angle	0.00	5	5	-	-	-	-	1.260	XY
221	Beam	223	224	Angle	0.00	5	5	-	-	-	-	3.469	XY
301	Beam	301	302	Angle	0.00	5	5	-	-	-	-	2.500	X
302	Beam	302	303	Angle	0.00	5	5	-	-	-	-	2.500	X
303	Beam	303	304	Angle	0.00	5	5	-	-	-	-	2.500	X
304	Beam	304	305	Angle	0.00	5	5	-	-	-	-	2.500	X
305	Beam	305	306	Angle	0.00	5	5	-	-	-	-	2.500	X
306	Beam	306	307	Angle	0.00	5	5	-	-	-	-	0.645	X
307	Beam	307	308	Angle	0.00	5	5	-	-	-	-	1.855	X
308	Beam	308	309	Angle	0.00	5	5	-	-	-	-	2.500	X
309	Beam	309	310	Angle	0.00	5	5	-	-	-	-	2.500	X
310	Beam	310	311	Angle	0.00	5	5	-	-	-	-	2.500	X
311	Beam	311	312	Angle	0.00	5	5	-	-	-	-	2.500	X
312	Beam	312	313	Angle	0.00	5	5	-	-	-	-	1.855	X
313	Beam	313	314	Angle	0.00	5	5	-	-	-	-	0.645	X
314	Beam	314	315	Angle	0.00	5	5	-	-	-	-	2.500	X
315	Beam	315	316	Angle	0.00	5	5	-	-	-	-	2.500	X
316	Beam	316	317	Angle	0.00	5	5	-	-	-	-	2.500	X
317	Beam	317	318	Angle	0.00	5	5	-	-	-	-	2.500	X
318	Beam	318	319	Angle	0.00	5	5	-	-	-	-	2.500	X
401	Beam	301	1003	Angle	0.00	1	1	-	3	-	-	0.138	YZ
402	Beam	101	1004	Angle	0.00	1	1	-	3	-	-	0.138	YZ
403	Beam	1003	602	Angle	0.00	1	1	-	-	-	-	0.171	Y
404	Beam	1004	603	Angle	0.00	1	1	-	-	-	-	0.171	YZ
405	Beam	302	1013	Angle	0.00	1	1	-	3	-	-	0.138	YZ
406	Beam	102	1014	Angle	0.00	1	1	-	3	-	-	0.138	YZ
407	Beam	1013	606	Angle	0.00	1	1	-	-	-	-	0.171	Y
408	Beam	1014	607	Angle	0.00	1	1	-	-	-	-	0.171	YZ
409	Beam	303	1052	Angle	0.00	1	1	-	3	-	-	0.138	YZ
410	Beam	103	1053	Angle	0.00	1	1	-	3	-	-	0.138	YZ
411	Beam	1052	610	Angle	0.00	1	1	-	-	-	-	0.171	Y
412	Beam	1053	611	Angle	0.00	1	1	-	-	-	-	0.171	YZ
413	Beam	304	1061	Angle	0.00	1	1	-	3	-	-	0.138	YZ
414	Beam	104	1062	Angle	0.00	1	1	-	3	-	-	0.138	YZ
415	Beam	1061	614	Angle	0.00	1	1	-	-	-	-	0.171	Y
416	Beam	1062	615	Angle	0.00	1	1	-	-	-	-	0.171	YZ
417	Beam	305	1072	Angle	0.00	1	1	-	3	-	-	0.138	YZ
418	Beam	105	1073	Angle	0.00	1	1	-	3	-	-	0.138	YZ
419	Beam	1072	618	Angle	0.00	1	1	-	-	-	-	0.171	Y
420	Beam	1073	619	Angle	0.00	1	1	-	-	-	-	0.171	YZ
421	Beam	306	1081	Angle	0.00	1	1	-	3	-	-	0.138	YZ
422	Beam	106	1082	Angle	0.00	1	1	-	3	-	-	0.138	YZ
423	Beam	1081	622	Angle	0.00	1	1	-	-	-	-	0.171	Y
424	Beam	1082	623	Angle	0.00	1	1	-	-	-	-	0.171	YZ
425	Beam	308	1100	Angle	0.00	1	1	-	3	-	-	0.138	YZ
426	Beam	108	1101	Angle	0.00	1	1	-	3	-	-	0.138	YZ
427	Beam	1100	626	Angle	0.00	1	1	-	-	-	-	0.171	Y
428	Beam	1101	627	Angle	0.00	1	1	-	-	-	-	0.171	YZ
429	Beam	309	1109	Angle	0.00	1	1	-	3	-	-	0.138	YZ
430	Beam	109	1110	Angle	0.00	1	1	-	3	-	-	0.138	YZ
431	Beam	1109	630	Angle	0.00	1	1	-	-	-	-	0.171	Y
432	Beam	1110	631	Angle	0.00	1	1	-	-	-	-	0.171	YZ
433	Beam	310	1118	Angle	0.00	1	1	-	3	-	-	0.138	YZ
434	Beam	110	1119	Angle	0.00	1	1	-	3	-	-	0.138	YZ
435	Beam	1118	634	Angle	0.00	1	1	-	-	-	-	0.171	Y
436	Beam	1119	635	Angle	0.00	1	1	-	-	-	-	0.171	YZ
437	Beam	311	1127	Angle	0.00	1	1	-	3	-	-	0.138	YZ
438	Beam	111	1128	Angle	0.00	1	1	-	3	-	-	0.138	YZ
439	Beam	1127	638	Angle	0.00	1	1	-	-	-	-	0.171	Y
440	Beam	1128	639	Angle	0.00	1	1	-	-	-	-	0.171	YZ
441	Beam	312	1136	Angle	0.00	1	1	-	3	-	-	0.138	YZ
442	Beam	112	1137	Angle	0.00	1	1	-	3	-	-	0.138	YZ
443	Beam	1136	642	Angle	0.00	1	1	-	-	-	-	0.171	Y
444	Beam	1137	643	Angle	0.00	1	1	-	-	-	-	0.171	YZ
445	Beam	314	1154	Angle	0.00	1	1	-	3	-	-	0.138	YZ
446	Beam	114	1155	Angle	0.00	1	1	-	3	-	-	0.138	YZ
447	Beam	1154	646	Angle	0.00	1	1	-	-	-	-	0.171	Y
448	Beam	1155	647	Angle	0.00	1	1	-	-	-	-	0.171	YZ
449	Beam	315	1163	Angle	0.00	1	1	-	3	-	-	0.138	YZ
450	Beam	115	1164	Angle	0.00	1	1	-	3	-	-	0.138	YZ
451	Beam	1163	650	Angle	0.00	1	1	-	-	-	-	0.171	Y
452	Beam	1164	651	Angle	0.00	1	1	-	-	-	-	0.171	YZ
453	Beam	316	1173	Angle	0.00	1	1	-	3	-	-	0.138	YZ
454	Beam	116	1174	Angle	0.00	1	1	-	3	-	-	0.138	YZ
455	Beam	1173	654	Angle	0.00	1	1	-	-	-	-	0.171	YZ
456	Beam	1174	655	Angle	0.00	1	1	-	-	-	-	0.171	YZ
457	Beam	317	1212	Angle	0.00	1	1	-	3	-	-	0.138	YZ
458	Beam	117	1213	Angle	0.00	1	1	-	3	-	-	0.138	YZ
459	Beam	1212	658	Angle	0.00	1	1	-	-	-	-	0.171	YZ
460	Beam	1213	659	Angle	0.00	1	1	-	-	-	-	0.171	YZ
461	Beam	318	1221	Angle	0.00	1	1	-	3	-	-	0.138	YZ
462	Beam	118	1222	Angle	0.00	1	1	-	3	-	-	0.138	YZ
463	Beam	1221	662	Angle	0.00	1	1	-	-	-	-	0.171	YZ
464	Beam	1222	663	Angle	0.00	1	1	-	-	-	-	0.171	YZ
465	Beam	120	667	Angle	0.00	1	1	-	3	-	-	0.309	Y

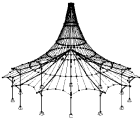


Project: Structure: **Dafni Konstantinidi - Sofrona (RSTAB)**

Date: 11.08.2011

1.7 MEMBERS

Member No.	Member	Node		Rotation		Cross-section		Release No.		Ecc. No.	Div. No.	Length L [m]	
		Start	End	Type	β [°]	Start	End	Start	End				
467	Beam	319	1233	Angle	0.00	1	1	-	3	-	-	0.138	YZ
468	Beam	1233	666	Angle	0.00	1	1	-	-	-	-	0.171	YZ
501	Beam	604	608	Angle	90.00	2	2	1	2	-	-	2.500	X
502	Beam	608	612	Angle	90.00	2	2	1	2	-	-	2.500	X
503	Beam	612	616	Angle	90.00	2	2	1	2	-	-	2.500	X
504	Beam	616	620	Angle	90.00	2	2	1	2	-	-	2.500	X
505	Beam	620	624	Angle	90.00	2	2	1	2	-	-	2.500	X
506	Beam	624	628	Angle	90.00	2	2	1	2	-	-	2.500	X
507	Beam	628	632	Angle	90.00	2	2	1	2	-	-	2.500	X
508	Beam	632	636	Angle	90.00	2	2	1	2	-	-	2.500	X
509	Beam	636	640	Angle	90.00	2	2	1	2	-	-	2.500	X
510	Beam	640	644	Angle	90.00	2	2	1	2	-	-	2.500	X
511	Beam	644	648	Angle	90.00	2	2	1	2	-	-	2.500	X
512	Beam	648	652	Angle	90.00	2	2	1	2	-	-	2.500	X
513	Beam	652	656	Angle	90.00	2	2	1	2	-	-	2.500	X
514	Beam	656	660	Angle	90.00	2	2	1	2	-	-	2.500	X
515	Beam	660	664	Angle	90.00	2	2	1	2	-	-	2.500	X
516	Beam	664	668	Angle	90.00	2	2	1	2	-	-	2.500	X
601	Beam	602	601	Angle	270.00	3	3	-	-	-	-	0.091	Z
602	Beam	603	602	Angle	270.00	3	3	-	-	-	-	3.300	Z
603	Beam	604	603	Angle	270.00	3	3	-	-	-	-	0.109	Z
604	Beam	606	605	Angle	270.00	3	3	-	-	-	-	0.091	Z
605	Beam	607	606	Angle	270.00	3	3	-	-	-	-	3.300	Z
606	Beam	608	607	Angle	270.00	3	3	-	-	-	-	0.109	Z
607	Beam	610	609	Angle	270.00	3	3	-	-	-	-	0.091	Z
608	Beam	611	610	Angle	270.00	3	3	-	-	-	-	3.300	Z
609	Beam	612	611	Angle	270.00	3	3	-	-	-	-	0.109	Z
610	Beam	614	613	Angle	270.00	3	3	-	-	-	-	0.091	Z
611	Beam	615	614	Angle	270.00	3	3	-	-	-	-	3.300	Z
612	Beam	616	615	Angle	270.00	3	3	-	-	-	-	0.109	Z
613	Beam	618	617	Angle	270.00	3	3	-	-	-	-	0.091	Z
614	Beam	619	618	Angle	270.00	3	3	-	-	-	-	3.300	Z
615	Beam	620	619	Angle	270.00	3	3	-	-	-	-	0.109	Z
616	Beam	622	621	Angle	270.00	3	3	-	-	-	-	0.091	Z
617	Beam	623	622	Angle	270.00	3	3	-	-	-	-	3.300	Z
618	Beam	624	623	Angle	270.00	3	3	-	-	-	-	0.109	Z
619	Beam	626	625	Angle	270.00	3	3	-	-	-	-	0.091	Z
620	Beam	627	626	Angle	270.00	3	3	-	-	-	-	3.300	Z
621	Beam	628	627	Angle	270.00	3	3	-	-	-	-	0.109	Z
622	Beam	630	629	Angle	270.00	3	3	-	-	-	-	0.091	Z
623	Beam	631	630	Angle	270.00	3	3	-	-	-	-	3.300	Z
624	Beam	632	631	Angle	270.00	3	3	-	-	-	-	0.109	Z
625	Beam	634	633	Angle	270.00	3	3	-	-	-	-	0.091	Z
626	Beam	635	634	Angle	270.00	3	3	-	-	-	-	3.300	Z
627	Beam	636	635	Angle	270.00	3	3	-	-	-	-	0.109	Z
628	Beam	638	637	Angle	270.00	3	3	-	-	-	-	0.091	Z
629	Beam	639	638	Angle	270.00	3	3	-	-	-	-	3.300	Z
630	Beam	640	639	Angle	270.00	3	3	-	-	-	-	0.109	Z
631	Beam	642	641	Angle	270.00	3	3	-	-	-	-	0.091	Z
632	Beam	643	642	Angle	270.00	3	3	-	-	-	-	3.300	Z
633	Beam	644	643	Angle	270.00	3	3	-	-	-	-	0.109	Z
634	Beam	646	645	Angle	270.00	3	3	-	-	-	-	0.091	Z
635	Beam	647	646	Angle	270.00	3	3	-	-	-	-	3.300	Z
636	Beam	648	647	Angle	270.00	3	3	-	-	-	-	0.109	Z
637	Beam	650	649	Angle	270.00	3	3	-	-	-	-	0.091	Z
638	Beam	651	650	Angle	270.00	3	3	-	-	-	-	3.300	Z
639	Beam	652	651	Angle	270.00	3	3	-	-	-	-	0.109	Z
640	Beam	654	653	Angle	270.00	3	3	-	-	-	-	0.091	Z
641	Beam	655	654	Angle	270.00	3	3	-	-	-	-	3.300	Z
642	Beam	656	655	Angle	270.00	3	3	-	-	-	-	0.109	Z
643	Beam	658	657	Angle	270.00	3	3	-	-	-	-	0.091	Z
644	Beam	659	658	Angle	270.00	3	3	-	-	-	-	3.300	Z
645	Beam	660	659	Angle	270.00	3	3	-	-	-	-	0.109	Z
646	Beam	662	661	Angle	270.00	3	3	-	-	-	-	0.091	Z
647	Beam	663	662	Angle	270.00	3	3	-	-	-	-	3.300	Z
648	Beam	664	663	Angle	270.00	3	3	-	-	-	-	0.109	Z
649	Beam	666	665	Angle	270.00	3	3	-	-	-	-	0.091	Z
650	Beam	667	666	Angle	270.00	3	3	-	-	-	-	3.300	Z
651	Beam	668	667	Angle	270.00	3	3	-	-	-	-	0.109	Z
701	Beam	101	301	Angle	270.00	4	4	-	-	-	-	3.300	Z
702	Beam	301	1010	Angle	0.00	4	4	-	-	-	-	2.455	
703	Beam	1010	101	Angle	0.00	4	4	-	-	-	-	1.907	
704	Beam	101	302	Angle	0.00	4	4	-	-	-	-	4.140	XZ
705	Beam	302	1010	Angle	0.00	4	4	-	-	-	-	2.459	
706	Beam	1010	102	Angle	0.00	4	4	-	-	-	-	1.913	
707	Beam	102	302	Angle	270.00	4	4	-	-	-	-	3.300	Z
708	Beam	302	202	Angle	360.00	4	4	-	-	-	-	2.521	
709	Beam	202	102	Angle	0.00	4	4	-	-	-	-	2.011	
710	Beam	102	303	Angle	0.00	4	4	-	-	-	-	4.140	XZ
711	Beam	303	202	Angle	360.00	4	4	-	-	-	-	2.520	
712	Beam	202	103	Angle	360.00	4	4	-	-	-	-	2.011	
713	Beam	103	303	Angle	270.00	4	4	-	-	-	-	3.300	Z
714	Beam	303	204	Angle	0.00	4	4	-	-	-	-	2.651	
715	Beam	204	103	Angle	0.00	4	4	-	-	-	-	2.172	
716	Beam	104	303	Angle	0.00	4	4	-	-	-	-	4.140	XZ
717	Beam	204	304	Angle	0.00	4	4	-	-	-	-	2.651	
718	Beam	204	104	Angle	360.00	4	4	-	-	-	-	2.172	
719	Beam	104	304	Angle	270.00	4	4	-	-	-	-	3.300	Z



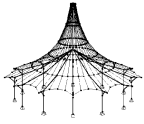
Project: _____ Structure: **Dafni Konstantinidi -
Sofrona (RSTAB)**

Date: 11.08.2011

1.7 MEMBERS

Member No.	Member	Node		Type	Rotation β [°]	Cross-section		Release No.		Ecc. No.	Div. No.	Length L [m]	
		Start	End			Start	End	Start	End				
720	Beam	304	207	Angle	360.00	4	4	-	-	-	-	2.795	Z
721	Beam	207	104	Angle	360.00	4	4	-	-	-	-	2.346	
722	Beam	105	304	Angle	0.00	4	4	-	-	-	-	4.140	XZ
723	Beam	207	305	Angle	360.00	4	4	-	-	-	-	2.795	
724	Beam	207	105	Angle	0.00	4	4	-	-	-	-	2.346	
725	Beam	105	305	Angle	270.00	4	4	-	-	-	-	3.300	Z
726	Beam	305	208	Angle	360.00	4	4	-	-	-	-	2.795	
727	Beam	208	105	Angle	360.00	4	4	-	-	-	-	2.346	
728	Beam	106	305	Angle	0.00	4	4	-	-	-	-	4.140	XZ
729	Beam	208	306	Angle	360.00	4	4	-	-	-	-	2.795	
730	Beam	208	106	Angle	0.00	4	4	-	-	-	-	2.346	
731	Beam	106	306	Angle	270.00	4	4	-	-	-	-	3.300	Z
732	Beam	306	1087	Angle	360.00	4	4	-	-	-	-	0.550	
733	Beam	1088	106	Angle	0.00	4	4	-	-	-	-	0.550	
734	Beam	1089	306	Angle	0.00	4	4	-	-	-	-	0.485	XZ
735	Beam	1087	1094	Angle	360.00	4	4	-	-	-	-	1.695	
736	Beam	1093	1088	Angle	360.00	4	4	-	-	-	-	1.246	
737	Beam	211	1093	Angle	360.00	4	4	-	-	-	-	0.550	
738	Beam	1094	211	Angle	360.00	4	4	-	-	-	-	0.550	
739	Beam	1097	1089	Angle	0.00	4	4	-	-	-	-	3.170	XZ
740	Beam	211	308	Angle	360.00	4	4	-	-	-	-	2.795	
741	Beam	211	108	Angle	0.00	4	4	-	-	-	-	2.346	
742	Beam	108	1097	Angle	0.00	4	4	-	-	-	-	0.485	XZ
743	Beam	108	308	Angle	270.00	4	4	-	-	-	-	3.300	Z
744	Beam	308	212	Angle	360.00	4	4	-	-	-	-	2.795	
745	Beam	108	212	Angle	0.00	4	4	-	-	-	-	2.346	
746	Beam	109	308	Angle	0.00	4	4	-	-	-	-	4.140	XZ
747	Beam	309	212	Angle	0.00	4	4	-	-	-	-	2.795	
748	Beam	109	212	Angle	360.00	4	4	-	-	-	-	2.346	
749	Beam	109	309	Angle	270.00	4	4	-	-	-	-	3.300	Z
750	Beam	309	213	Angle	360.00	4	4	-	-	-	-	2.795	
751	Beam	213	109	Angle	360.00	4	4	-	-	-	-	2.346	
752	Beam	110	309	Angle	0.00	4	4	-	-	-	-	4.140	XZ
753	Beam	310	213	Angle	0.00	4	4	-	-	-	-	2.795	
754	Beam	213	110	Angle	0.00	4	4	-	-	-	-	2.346	
755	Beam	110	310	Angle	270.00	4	4	-	-	-	-	3.300	Z
756	Beam	310	214	Angle	360.00	4	4	-	-	-	-	2.795	
757	Beam	110	214	Angle	0.00	4	4	-	-	-	-	2.346	
758	Beam	110	311	Angle	0.00	4	4	-	-	-	-	4.140	XZ
759	Beam	214	311	Angle	360.00	4	4	-	-	-	-	2.795	
760	Beam	111	214	Angle	360.00	4	4	-	-	-	-	2.346	
761	Beam	111	311	Angle	270.00	4	4	-	-	-	-	3.300	Z
762	Beam	311	215	Angle	360.00	4	4	-	-	-	-	2.795	
763	Beam	215	111	Angle	360.00	4	4	-	-	-	-	2.346	
764	Beam	111	312	Angle	0.00	4	4	-	-	-	-	4.140	XZ
765	Beam	215	312	Angle	360.00	4	4	-	-	-	-	2.795	
766	Beam	215	112	Angle	0.00	4	4	-	-	-	-	2.346	
767	Beam	112	312	Angle	270.00	4	4	-	-	-	-	3.300	Z
768	Beam	112	1142	Angle	360.00	4	4	-	-	-	-	0.485	XZ
769	Beam	312	216	Angle	360.00	4	4	-	-	-	-	2.795	
770	Beam	112	216	Angle	0.00	4	4	-	-	-	-	2.346	
771	Beam	1142	1150	Angle	0.00	4	4	-	-	-	-	3.170	XZ
772	Beam	1144	216	Angle	0.00	4	4	-	-	-	-	0.550	
773	Beam	1145	216	Angle	360.00	4	4	-	-	-	-	0.550	
774	Beam	1151	1144	Angle	0.00	4	4	-	-	-	-	1.695	
775	Beam	1149	1145	Angle	360.00	4	4	-	-	-	-	1.246	
776	Beam	114	1149	Angle	360.00	4	4	-	-	-	-	0.550	
777	Beam	1150	314	Angle	360.00	4	4	-	-	-	-	0.485	XZ
778	Beam	314	1151	Angle	0.00	4	4	-	-	-	-	0.550	
779	Beam	114	314	Angle	270.00	4	4	-	-	-	-	3.300	Z
780	Beam	314	218	Angle	360.00	4	4	-	-	-	-	2.795	
781	Beam	218	114	Angle	360.00	4	4	-	-	-	-	2.346	
782	Beam	114	315	Angle	0.00	4	4	-	-	-	-	4.140	XZ
783	Beam	218	315	Angle	360.00	4	4	-	-	-	-	2.795	
784	Beam	218	115	Angle	0.00	4	4	-	-	-	-	2.346	
785	Beam	115	315	Angle	270.00	4	4	-	-	-	-	3.300	Z
786	Beam	315	219	Angle	360.00	4	4	-	-	-	-	2.795	
787	Beam	219	115	Angle	360.00	4	4	-	-	-	-	2.346	
788	Beam	115	316	Angle	0.00	4	4	-	-	-	-	4.140	XZ
789	Beam	219	316	Angle	360.00	4	4	-	-	-	-	2.795	
790	Beam	219	116	Angle	0.00	4	4	-	-	-	-	2.346	
791	Beam	116	316	Angle	270.00	4	4	-	-	-	-	3.300	Z
792	Beam	316	221	Angle	360.00	4	4	-	-	-	-	2.651	
793	Beam	221	116	Angle	0.00	4	4	-	-	-	-	2.172	
794	Beam	116	317	Angle	0.00	4	4	-	-	-	-	4.140	XZ
795	Beam	221	317	Angle	0.00	4	4	-	-	-	-	2.651	
796	Beam	221	117	Angle	360.00	4	4	-	-	-	-	2.172	
797	Beam	117	317	Angle	270.00	4	4	-	-	-	-	3.300	Z
798	Beam	317	223	Angle	0.00	4	4	-	-	-	-	2.520	
799	Beam	223	117	Angle	360.00	4	4	-	-	-	-	2.011	
800	Beam	118	317	Angle	0.00	4	4	-	-	-	-	4.140	XZ
801	Beam	223	318	Angle	0.00	4	4	-	-	-	-	2.520	
802	Beam	223	118	Angle	0.00	4	4	-	-	-	-	2.011	
803	Beam	118	318	Angle	270.00	4	4	-	-	-	-	3.300	Z
804	Beam	318	1227	Angle	0.00	4	4	-	-	-	-	2.450	
805	Beam	1227	118	Angle	0.00	4	4	-	-	-	-	1.922	
806	Beam	120	318	Angle	0.00	4	4	-	-	-	-	4.140	XZ
807	Beam	1227	319	Angle	0.00	4	4	-	-	-	-	2.446	





STRUCTURE

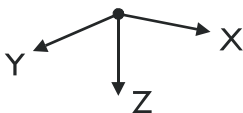
Project: Structure: **Dafni Konstantinidi - Sofrona (RSTAB)**

Date: 11.08.2011

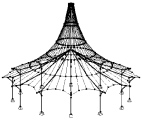
1.7 MEMBERS

Member No.	Member	Node		Type	Rotation β [°]	Cross-section		Release No.		Ecc. No.	Div. No.	Length L [m]	
		Start	End			Start	End	Start	End				
808	Beam	1227	120	Angle	360.00	4	4	-	-	-	-	1.916	XZ
809	Beam	120	319	Angle	270.00	4	4	-	-	-	-	3.300	Z
1035	Beam	1021	203	Angle	270.00	6	6	-	4	-	-	0.370	Z
1036	Beam	1022	1021	Angle	270.00	7	7	-	-	-	-	0.791	Z
1037	Beam	1023	1022	Angle	270.00	7	7	-	-	-	-	2.100	Z
1038	Beam	1024	1023	Angle	270.00	7	7	-	-	-	-	0.120	Z
1039	Beam	1024	1025	Angle	270.00	7	7	-	-	-	-	0.588	YZ
1040	Beam	1025	1026	Angle	0.00	8	8	-	-	-	-	0.500	Z
1041	Beam	1026	1027	Angle	0.00	8	8	-	-	-	-	0.500	Z
1042	Beam	1027	1028	Angle	0.00	8	8	-	-	-	-	0.500	Z
1043	Beam	1028	1029	Angle	0.00	8	8	-	-	-	-	0.500	Z
1044	Beam	1029	1030	Angle	0.00	8	8	-	-	-	-	0.500	Z
1045	Beam	1030	1031	Angle	0.00	8	8	-	-	-	-	0.500	Z
1046	Beam	1031	1032	Angle	0.00	8	8	-	-	-	-	0.500	Z
1047	Beam	1032	1033	Angle	0.00	8	8	-	-	-	-	1.170	Z
1048	Beam	1033	1034	Angle	0.00	8	8	-	-	-	-	1.165	Z
1049	Beam	1034	1035	Angle	0.00	8	8	-	-	-	-	1.165	Z
1050	Beam	1022	1039	Angle	0.00	5	5	-	-	-	-	1.485	YZ
1051	Beam	1039	1023	Angle	0.00	5	5	-	-	-	-	1.485	YZ
1052	Beam	1024	1040	Angle	0.00	5	5	-	-	-	-	1.050	Y
1054	Beam	1038	103	Angle	270.00	6	6	-	4	-	-	0.370	Z
1055	Beam	1039	1038	Angle	270.00	7	7	-	-	-	-	0.541	Z
1056	Beam	1040	1039	Angle	270.00	7	7	-	-	-	-	1.170	Z
1057	Beam	1040	1041	Angle	270.00	7	7	-	-	-	-	0.588	Z
1058	Beam	1041	1042	Angle	0.00	8	8	-	-	-	-	0.500	Z
1059	Beam	1042	1043	Angle	0.00	8	8	-	-	-	-	0.500	Z
1060	Beam	1043	1044	Angle	0.00	8	8	-	-	-	-	0.500	Z
1061	Beam	1044	1045	Angle	0.00	8	8	-	-	-	-	0.500	Z
1062	Beam	1045	1046	Angle	0.00	8	8	-	-	-	-	0.500	Z
1063	Beam	1046	1047	Angle	0.00	8	8	-	-	-	-	0.500	Z
1064	Beam	1047	1048	Angle	0.00	8	8	-	-	-	-	0.500	Z
1065	Beam	1048	1049	Angle	0.00	8	8	-	-	-	-	1.170	Z
1066	Beam	1049	1050	Angle	0.00	8	8	-	-	-	-	1.165	Z
1067	Beam	1050	1051	Angle	0.00	8	8	-	-	-	-	1.165	Z
1292	Beam	1181	222	Angle	270.00	6	6	-	4	-	-	0.370	Z
1293	Beam	1182	1181	Angle	270.00	7	7	-	-	-	-	0.791	Z
1294	Beam	1183	1182	Angle	270.00	7	7	-	-	-	-	2.100	Z
1295	Beam	1184	1183	Angle	270.00	7	7	-	-	-	-	0.120	Z
1296	Beam	1184	1185	Angle	270.00	7	7	-	-	-	-	0.588	Z
1297	Beam	1185	1186	Angle	0.00	8	8	-	-	-	-	0.500	Z
1298	Beam	1186	1187	Angle	0.00	8	8	-	-	-	-	0.500	Z
1299	Beam	1187	1188	Angle	0.00	8	8	-	-	-	-	0.500	Z
1300	Beam	1188	1189	Angle	0.00	8	8	-	-	-	-	0.500	Z
1301	Beam	1189	1190	Angle	0.00	8	8	-	-	-	-	0.500	Z
1302	Beam	1190	1191	Angle	0.00	8	8	-	-	-	-	0.500	Z
1303	Beam	1191	1192	Angle	0.00	8	8	-	-	-	-	0.500	Z
1304	Beam	1192	1193	Angle	0.00	8	8	-	-	-	-	1.170	Z
1305	Beam	1193	1194	Angle	0.00	8	8	-	-	-	-	1.165	Z
1306	Beam	1194	1195	Angle	0.00	8	8	-	-	-	-	1.165	Z
1307	Beam	1182	1199	Angle	360.00	5	5	-	-	-	-	1.485	YZ
1308	Beam	1199	1183	Angle	360.00	5	5	-	-	-	-	1.485	YZ
1309	Beam	1184	1200	Angle	0.00	5	5	-	-	-	-	1.050	Y
1311	Beam	1198	117	Angle	270.00	6	6	-	4	-	-	0.370	Z
1312	Beam	1199	1198	Angle	270.00	7	7	-	-	-	-	0.541	Z
1313	Beam	1200	1199	Angle	270.00	7	7	-	-	-	-	1.170	Z
1314	Beam	1200	1201	Angle	270.00	7	7	-	-	-	-	0.588	Z
1315	Beam	1201	1202	Angle	0.00	8	8	-	-	-	-	0.500	Z
1316	Beam	1202	1203	Angle	0.00	8	8	-	-	-	-	0.500	Z
1317	Beam	1203	1204	Angle	0.00	8	8	-	-	-	-	0.500	Z
1318	Beam	1204	1205	Angle	0.00	8	8	-	-	-	-	0.500	Z
1319	Beam	1205	1206	Angle	0.00	8	8	-	-	-	-	0.500	Z
1320	Beam	1206	1207	Angle	0.00	8	8	-	-	-	-	0.500	Z
1321	Beam	1207	1208	Angle	0.00	8	8	-	-	-	-	0.500	Z
1322	Beam	1208	1209	Angle	0.00	8	8	-	-	-	-	1.170	Z
1323	Beam	1209	1210	Angle	0.00	8	8	-	-	-	-	1.165	Z
1324	Beam	1210	1211	Angle	0.00	8	8	-	-	-	-	1.165	Z

1.8 NODAL SUPPORTS

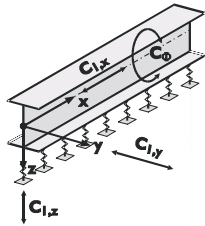


Support No.	Nodes No.	Sequen.	Rotation [°]			Support Conditions					
			about X	about Y	about Z	u_x	u_y	u_z	ϕ_x	ϕ_y	ϕ_z
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Project: _____ Structure: **Dafni Konstantinidi - Sofrona (RSTAB)**

Date: 11.08.2011



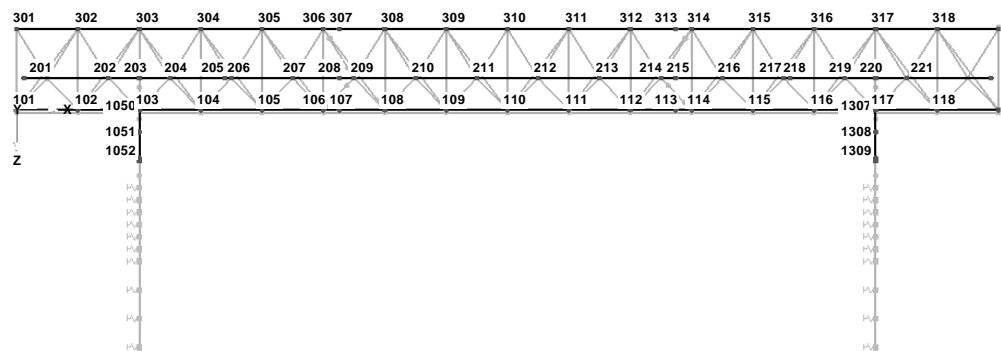
1.9 MEMBER ELASTIC FOUNDATIONS

Found. No.	Member No.	$C_{1,x}$ [kN/m ²]	$C_{1,y}$ [kN/m ²]	$C_{1,z}$ [kN/m ²]	$C_{2,x}$ [kN]	$C_{2,y}$ [kN]	$C_{2,z}$ [kN]	C_{ϕ} [kNm/rad/m]	Ineffective under
1	1041,1059, 1298,1316	0.000	10000.0	10000.0	0.000	0.000	0.000	0.000	-
2	1042,1060, 1299,1317	0.000	25000.0	25000.0	0.000	0.000	0.000	0.000	-
3	1043,1061, 1300,1318	0.000	40000.0	40000.0	0.000	0.000	0.000	0.000	-
4	1044,1062, 1301,1319	0.000	55000.0	55000.0	0.000	0.000	0.000	0.000	-
5	1045,1063, 1302,1320	0.000	70000.0	70000.0	0.000	0.000	0.000	0.000	-
6	1046,1064, 1303,1321	0.000	85000.0	85000.0	0.000	0.000	0.000	0.000	-
7	1047-1049, 1065-1067, 1304-1306, 1322-1324	0.000	100000.0	100000.0	0.000	0.000	0.000	0.000	-

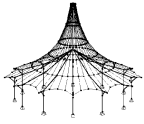
STRUCTURE

Member Numbering

Against Y-direction



3.084 [m]



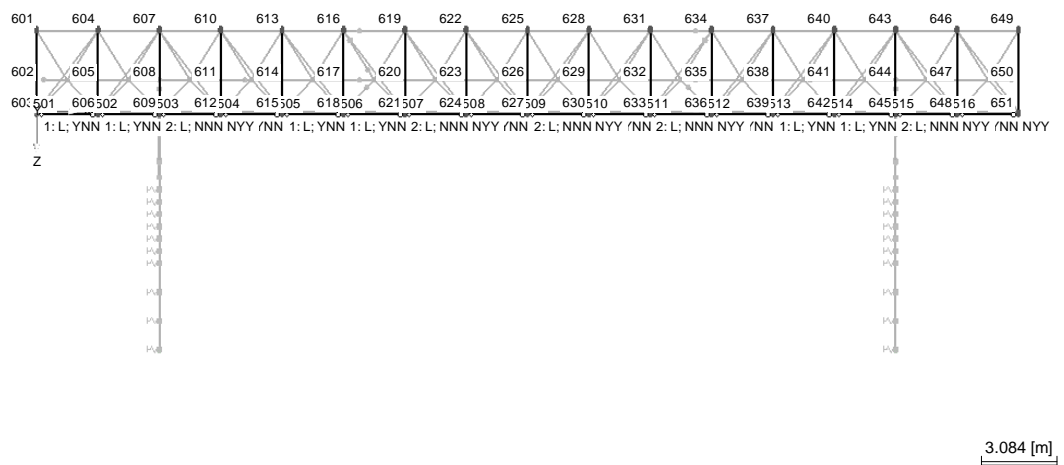
Project: [redacted] Structure: **Dafni Konstantinidi -
Sofrona (RSTAB)**

Date: 11.08.2011

STRUCTURE

Member Numbering

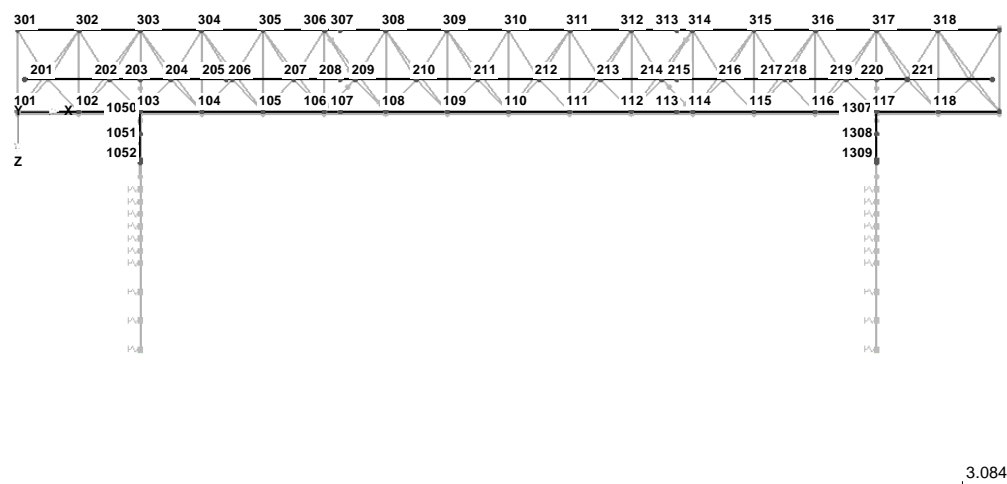
Against Y-direction

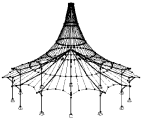


STRUCTURE

Member Numbering

Against Y-direction





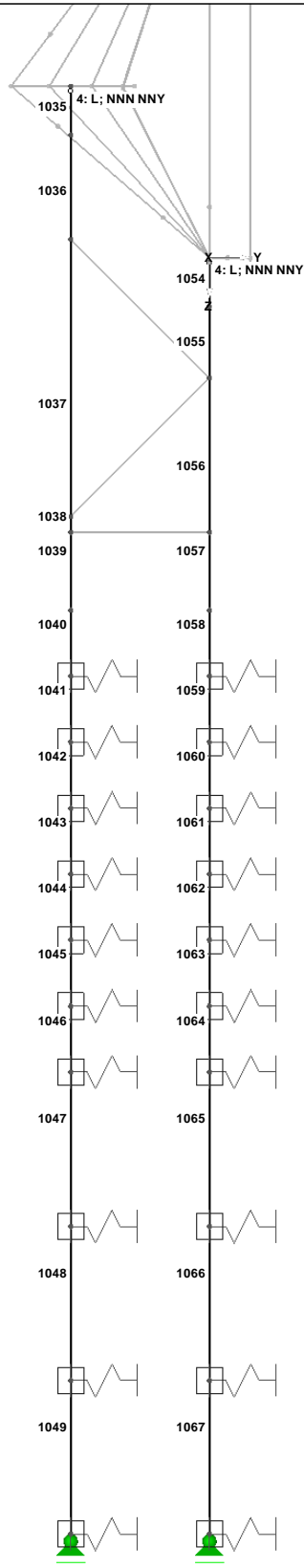
Project: Structure: **Dafni Konstantinidi - Sofrona (RSTAB)**

Date: 11.08.2011

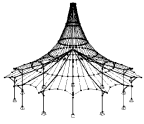
STRUCTURE

Member Numbering

In X-direction



0.548 [m]



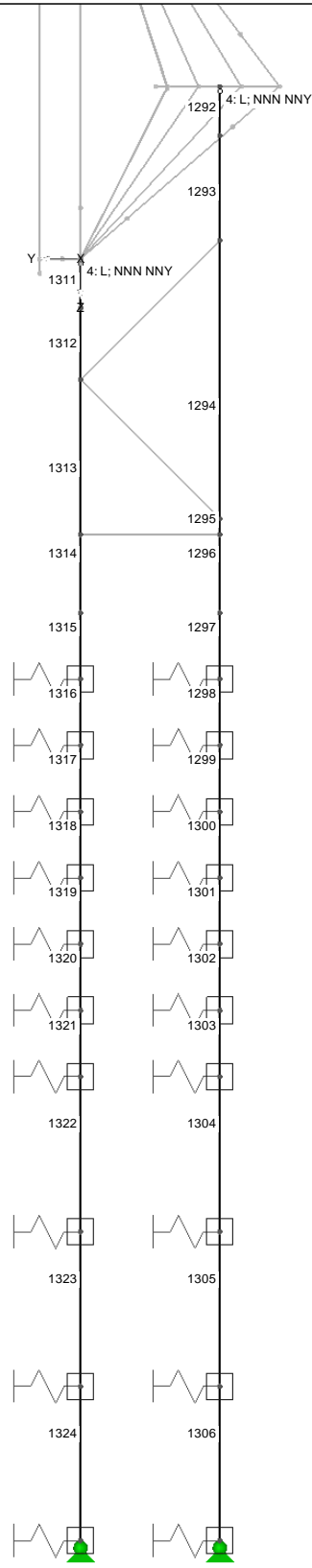
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Date: 11.08.2011

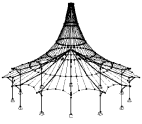
STRUCTURE

Member Numbering

Against X-direction



0.548 [m]

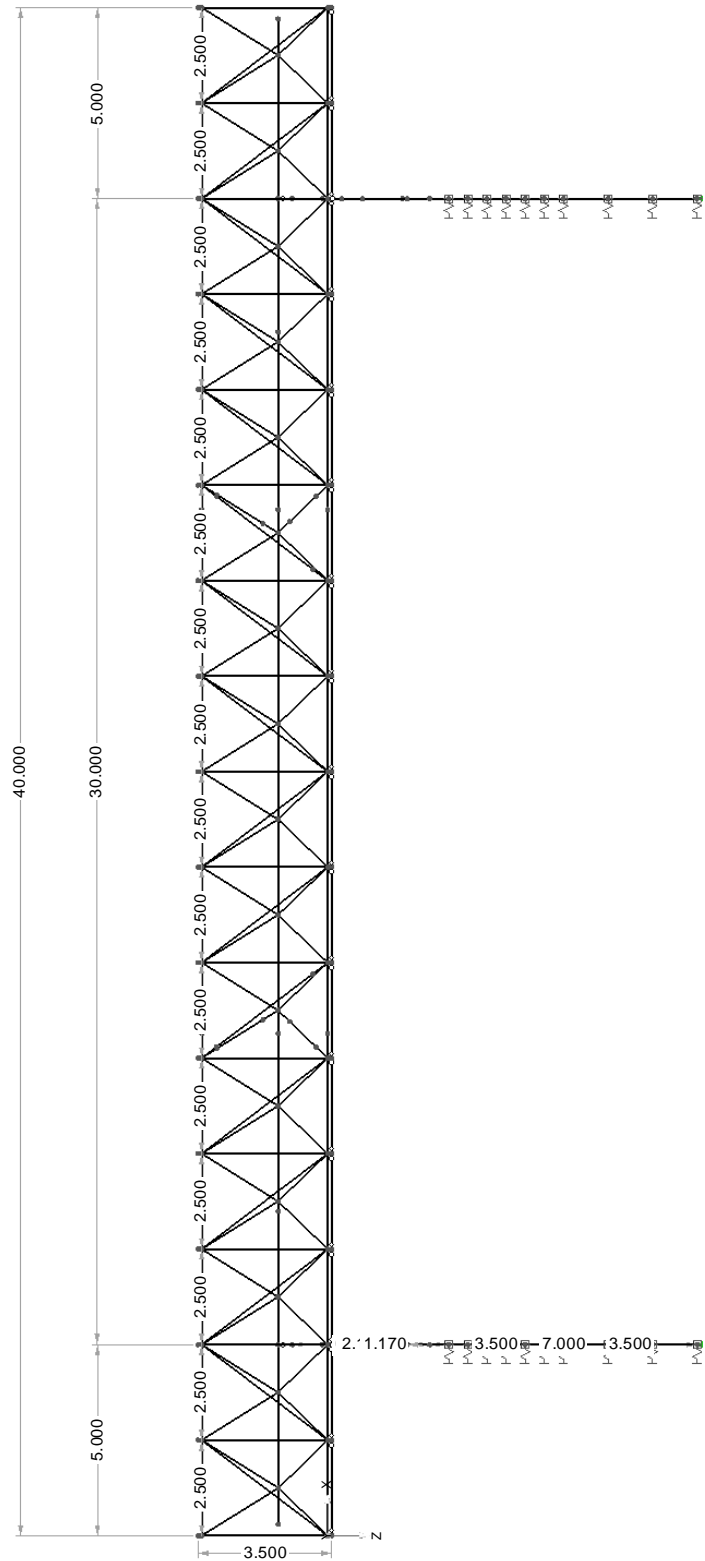


Project: [redacted] Structure: **Dafni Konstantinidi - Sofrona (RSTAB)**

Date: 11.08.2011

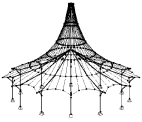
STRUCTURE

Against Y-direction



1.982 [m]



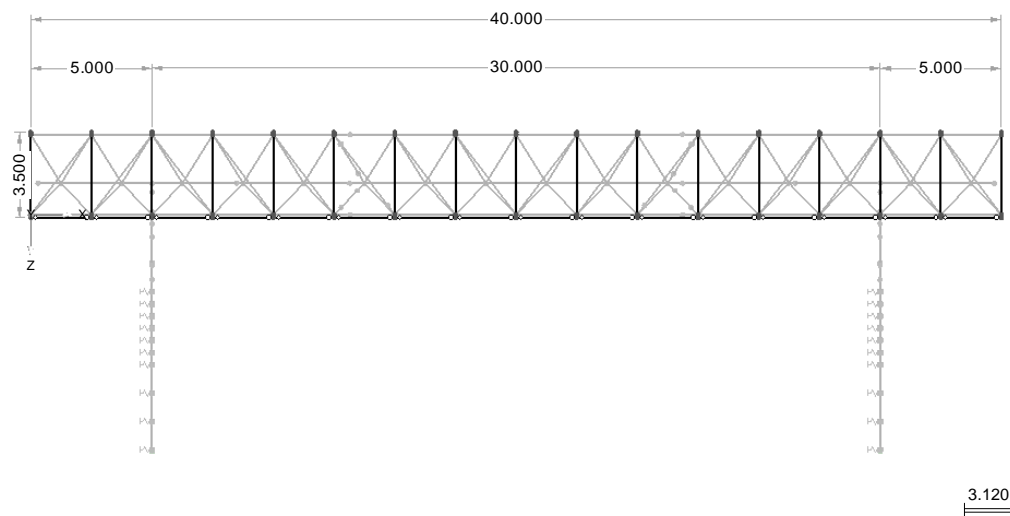


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Sofrona (RSTAB)**

Date: 11.08.2011

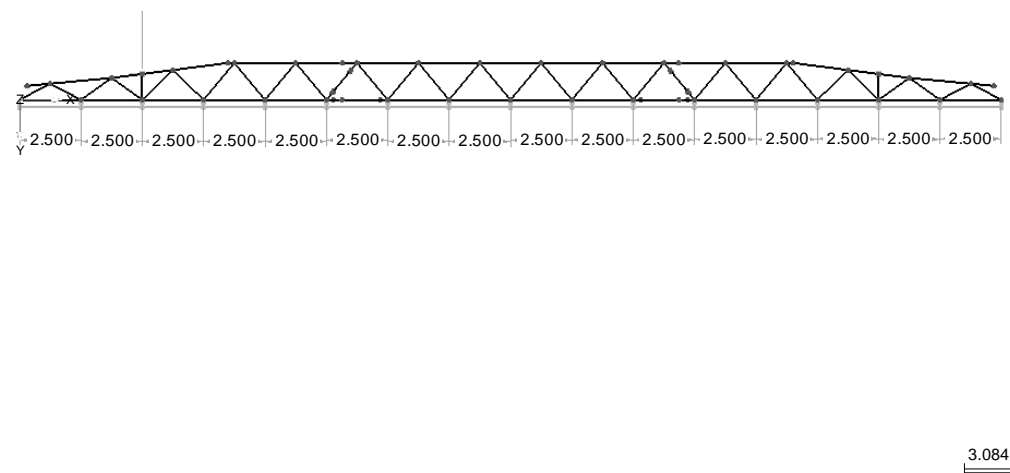
■ **STRUCTURE**

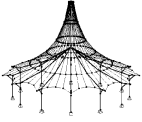
Against Y-direction



■ **STRUCTURE**

In Z-direction

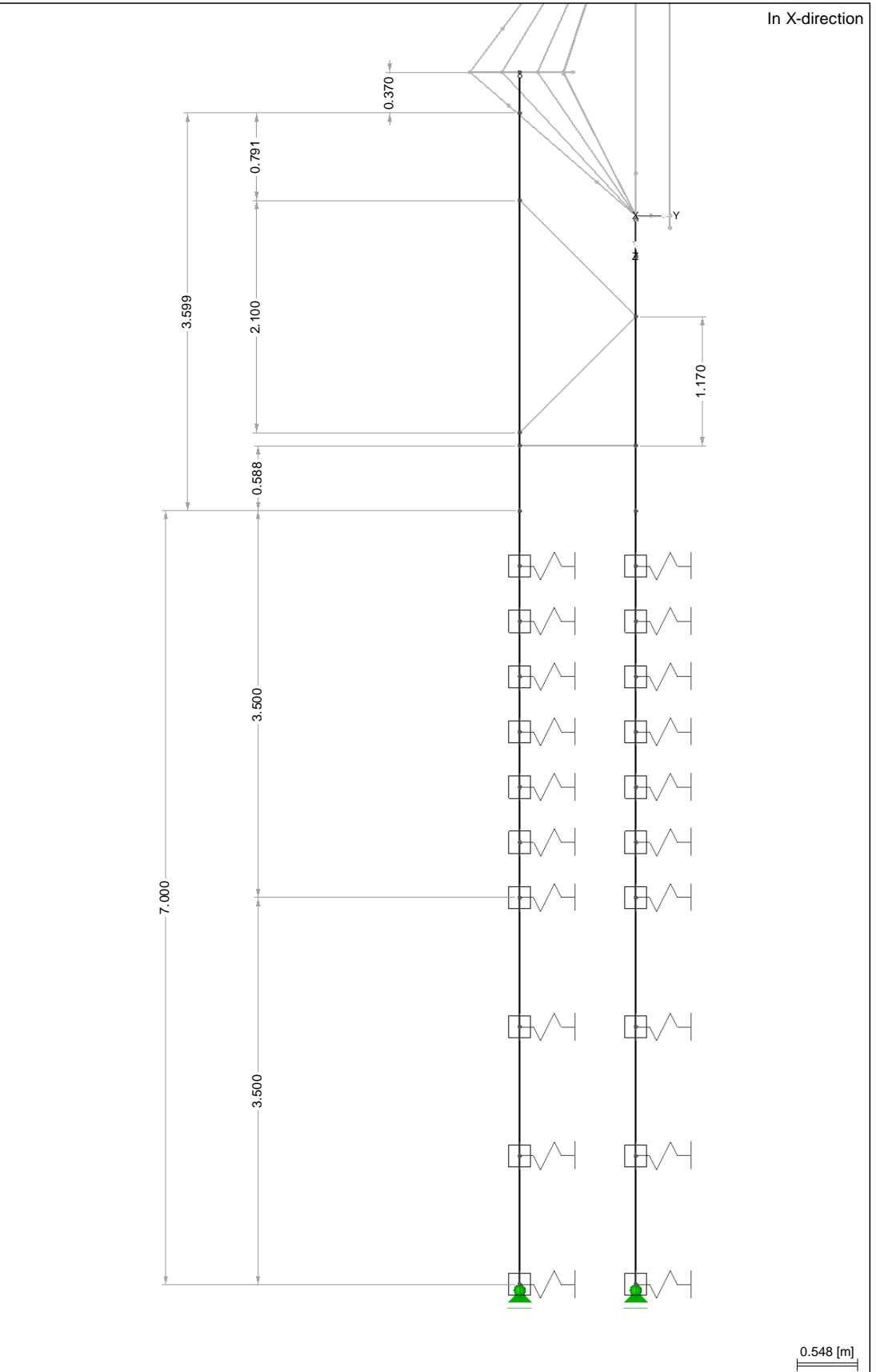


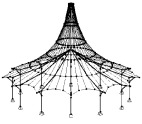


Project: [redacted] Structure: **Dafni Konstantinidi -
Sofrona (RSTAB)**

Date: 11.08.2011

STRUCTURE





LOADS

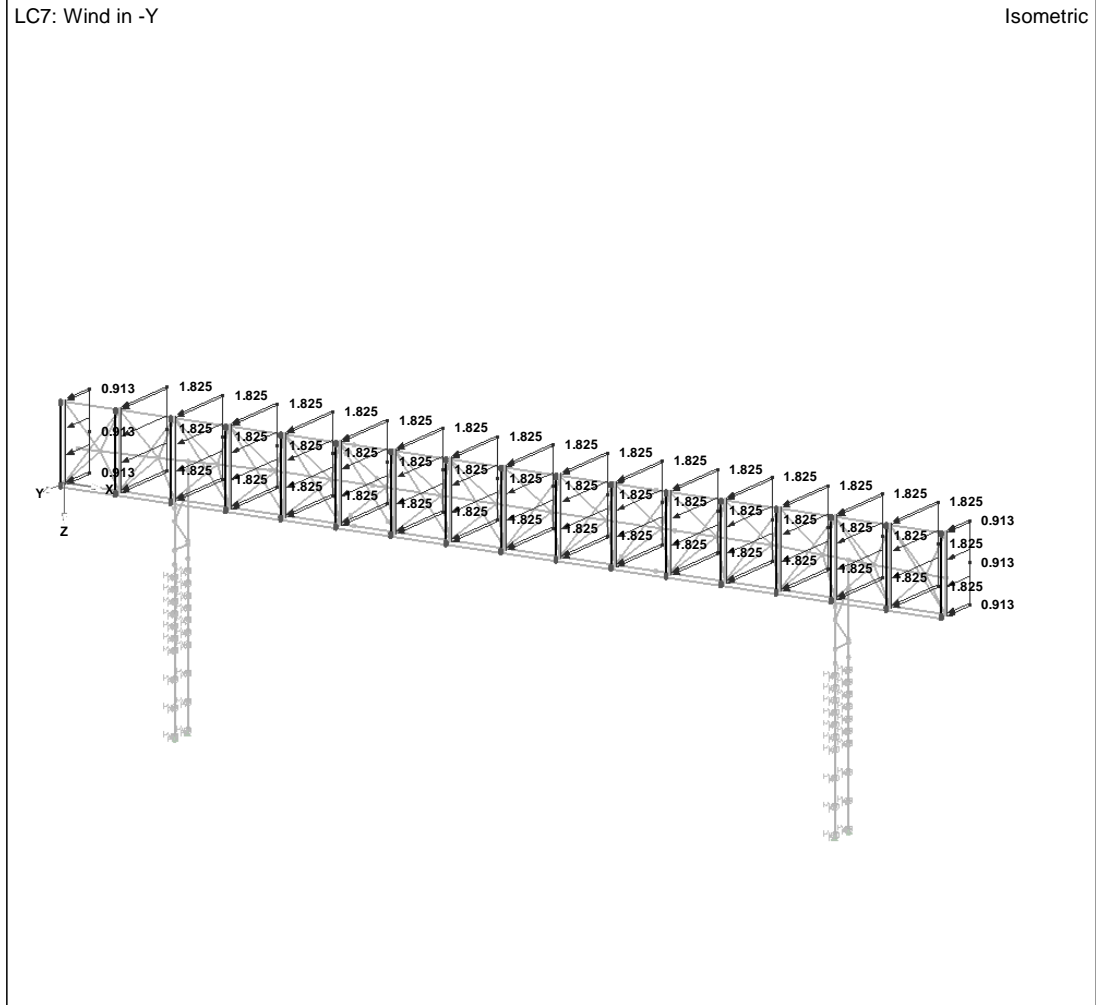
Project: Structure: **Dafni Konstantinidi - Sofrona (RSTAB)**

Date: 11.08.2011

LOAD CASES

LC No.	LC Description	LC Factor	Property of load case	Self-weight	Method of Analysis
1	Self-weight	1.0000	Permanent	1.05	Linear
7	Wind in -Y	1.0000	Variable	-	Linear
8	Dynamic load (1)	1.0000	Variable	-	Linear
9	Dynamic load (2)	1.0000	Variable	-	Linear

LC7: WIND IN -Y



LC7
Wind in -Y

2.2 MEMBER LOADS

LC7

No.	Reference to	On members No. On sets of m. No.	Load Type	Load Distribution	Load Direction	Reference Length	Load Parameters		
							Symbol	Value	Unit
1	Members	601-603,649-65	Force	Uniform	Y	True Length	p	0.913	kN/m
2	Members	604-648	Force	Uniform	Y	True Length	p	1.825	kN/m

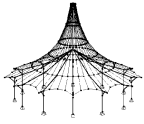
LC8
Dynamic load (1)

2.2 MEMBER LOADS

LC8

No.	Reference to	On members No. On sets of m. No.	Load Type	Load Distribution	Load Direction	Reference Length	Load Parameters		
							Symbol	Value	Unit
1	Members	601	Force	Uniform	Y	True Length	p	-0.567	kN/m
2	Members	602	Force	Trapezoidal	Y	True Length	p ₁	-0.945	kN/m
							p ₂	-0.567	kN/m
							A	0.500	m
3	Members	602	Force	Trapezoidal	Y	True Length	p ₁	-0.945	kN/m
							B	3.300	m





LOADS

Project: Structure: **Dafni Konstantinidi - Sofrona (RSTAB)**

Date: 11.08.2011

LC8
 Dynamic load (1)

2.2 MEMBER LOADS

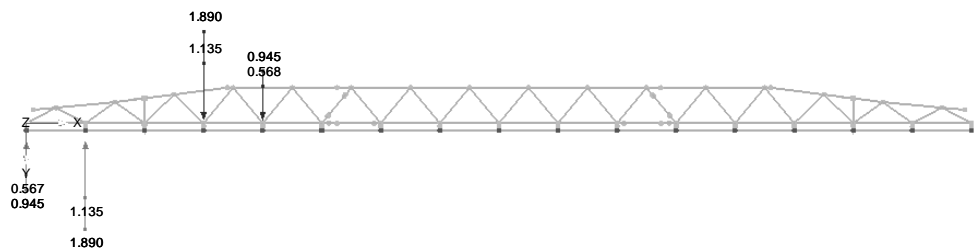
LC8

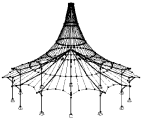
No.	Reference to	On members No. On sets of m. No.	Load Type	Load Distribution	Load Direction	Reference Length	Load Parameters		
							Symbol	Value	Unit
3	Members	602	Force	Trapezoidal	Y	True Length	p ₂	-0.945	kN/m
							A	0.000	m
							B	0.500	m
4	Members	603	Force	Uniform	Y	True Length	p	-0.945	kN/m
5	Members	604	Force	Uniform	Y	True Length	p	-1.135	kN/m
6	Members	605	Force	Trapezoidal	Y	True Length	p ₁	-1.890	kN/m
							p ₂	-1.890	kN/m
							A	0.000	m
7	Members	605	Force	Trapezoidal	Y	True Length	p ₁	-1.890	kN/m
							p ₂	-1.135	kN/m
							A	0.500	m
8	Members	606	Force	Uniform	Y	True Length	B	3.300	m
							p	-1.890	kN/m
							A	0.500	m
9	Members	610	Force	Uniform	Y	True Length	p	1.135	kN/m
10	Members	611	Force	Trapezoidal	Y	True Length	p ₁	1.890	kN/m
							p ₂	1.890	kN/m
							A	0.000	m
11	Members	611	Force	Trapezoidal	Y	True Length	B	3.300	m
							p ₁	1.890	kN/m
							p ₂	1.135	kN/m
12	Members	612	Force	Uniform	Y	True Length	A	0.500	m
							p	1.890	kN/m
							B	3.300	m
13	Members	613	Force	Uniform	Y	True Length	p	0.568	kN/m
14	Members	614	Force	Trapezoidal	Y	True Length	p ₁	0.945	kN/m
							p ₂	0.568	kN/m
							A	0.500	m
15	Members	614	Force	Trapezoidal	Y	True Length	B	3.300	m
							p ₁	0.945	kN/m
							p ₂	0.945	kN/m
16	Members	615	Force	Uniform	Y	True Length	A	0.000	m
							p	0.945	kN/m
							B	0.500	m

LC8: DYNAMIC LOAD (1)

LC8: Dynamic load (1)

In Z-direction





LOADS

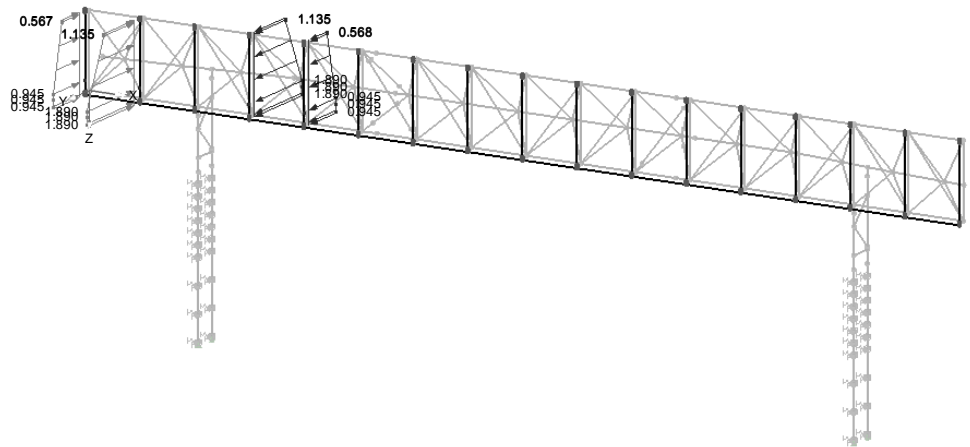
Project: Structure: **Dafni Konstantinidi - Sofrona (RSTAB)**

Date: 11.08.2011

LC8: DYNAMIC LOAD (1)

LC8: Dynamic load (1)

Isometric

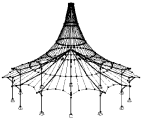


LC9
 Dynamic load (2)

2.2 MEMBER LOADS

LC9

No.	Reference to	On members No. On sets of m. No.	Load Type	Load Distribution	Load Direction	Reference Length	Load Parameters		
							Symbol	Value	Unit
1	Members	613	Force	Uniform	Y	True Length	p	-0.593	kN/m
2	Members	614	Force	Trapezoidal	Y	True Length	p ₁	-0.945	kN/m
							p ₂	-0.568	kN/m
							A	0.500	m
							B	3.300	m
3	Members	614	Force	Trapezoidal	Y	True Length	p ₁	-0.945	kN/m
							p ₂	-0.945	kN/m
							A	0.000	m
							B	0.500	m
4	Members	615	Force	Uniform	Y	True Length	p	-0.945	kN/m
5	Members	625	Force	Uniform	Y	True Length	p	0.593	kN/m
6	Members	626	Force	Trapezoidal	Y	True Length	p ₁	0.945	kN/m
							p ₂	0.945	kN/m
							A	0.000	m
							B	0.500	m
7	Members	626	Force	Trapezoidal	Y	True Length	p ₁	0.945	kN/m
							p ₂	0.568	kN/m
							A	0.500	m
							B	3.300	m
8	Members	627	Force	Uniform	Y	True Length	p	0.945	kN/m
9	Members	622	Force	Uniform	Y	True Length	p	1.185	kN/m
10	Members	623	Force	Trapezoidal	Y	True Length	p ₁	1.890	kN/m
							p ₂	1.890	kN/m
							A	0.000	m



LOADS

Project: [redacted] Structure: **Dafni Konstantinidi - Sofrona (RSTAB)**

Date: 11.08.2011

LC9
 Dynamic load (2)

2.2 MEMBER LOADS

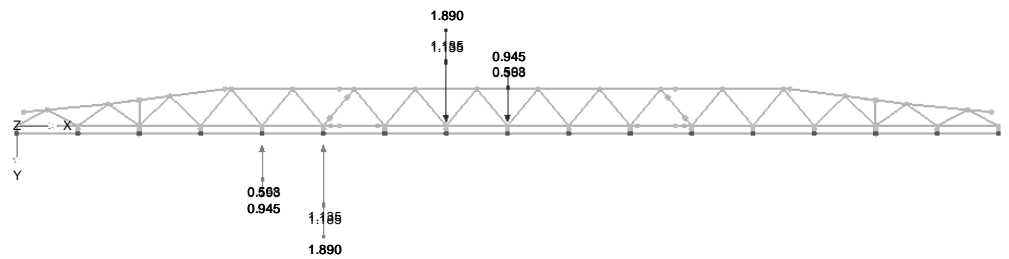
LC9

No.	Reference to	On members No. On sets of m. No.	Load Type	Load Distribution	Load Direction	Reference Length	Load Parameters		
							Symbol	Value	Unit
10	Members	623	Force	Trapezoidal	Y	True Length	B	0.500	m
11	Members	623	Force	Trapezoidal	Y	True Length	p ₁	1.890	kN/m
							p ₂	1.135	kN/m
							A	0.500	m
							B	3.300	m
12	Members	624	Force	Uniform	Y	True Length	p	1.890	kN/m
13	Members	616	Force	Uniform	Y	True Length	p	-1.185	kN/m
14	Members	617	Force	Trapezoidal	Y	True Length	p ₁	-1.890	kN/m
							p ₂	-1.890	kN/m
							A	0.000	m
							B	0.500	m
15	Members	617	Force	Trapezoidal	Y	True Length	p ₁	-1.890	kN/m
							p ₂	-1.135	kN/m
							A	0.500	m
							B	3.300	m
16	Members	618	Force	Uniform	Y	True Length	p	-1.890	kN/m

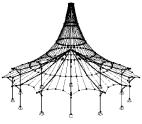
LC9: DYNAMIC LOAD (2)

LC9: Dynamic load (2)

In Z-direction



3.084 [m]



LOADS

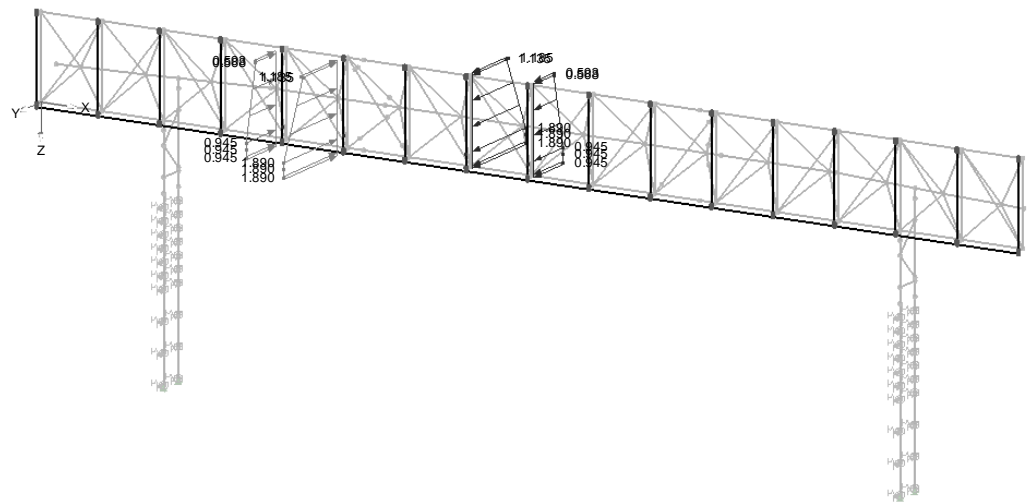
Project: [Redacted] Structure: **Dafni Konstantinidi -
 Sofrona (RSTAB)**

Date: 11.08.2011

LC9: DYNAMIC LOAD (2)

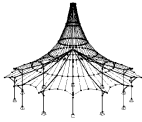
LC9: Dynamic load (2)

Isometric



LOAD COMBINATIONS

CO No.	LC Description	Combination Criteria
1	Dynamic Loads	LC8 or LC9
2	Wind	LC7 or -1*LC7
3	Final	1.35*LC1/P + 1.5*CO2 + 1.5*CO1

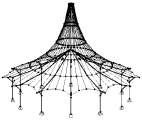


Project: Structure: **Dafni Konstantinidi - Sofrona (RSTAB)**

Date: 11.08.2011

3.0 RESULTS - SUMMARY

Description	Value	Unit	Comment
LC1 - Self-weight			
Sum of Loads in X	0.00	kN	
Sum of Support Reactions in X	0.00	kN	
Sum of Loads in Y	0.00	kN	
Sum of Support Reactions in Y	0.00	kN	
Sum of Loads in Z	266.54	kN	
Sum of Support Reactions in Z	266.54	kN	Deviation 0.00%
Max Displacement in X	0.8	mm	Member No. 604, x: 0.091 m
Max Displacement in Y	2.7	mm	Member No. 625, x: 0.091 m
Max Displacement in Z	7.1	mm	Member No. 508, x: 1.375 m
Max Vectorial Displacement	7.2	mm	Member No. 509, x: 1.125 m
Max rotation about X	1.1	mrاد	Member No. 428, x: 0.000 m
Max Rotation around Y	1.5	mrاد	Member No. 514, x: 2.500 m
Max Rotation about Z	-0.4	mrاد	Member No. 792, x: 0.663 m
Method of Analysis	Linear		Linear Static Analysis
Number of Iterations	1		
LC7 - Wind in -Y			
Sum of Loads in X	0.00	kN	
Sum of Support Reactions in X	0.00	kN	
Sum of Loads in Y	102.20	kN	
Sum of Support Reactions in Y	102.20	kN	Deviation 0.00%
Sum of Loads in Z	0.00	kN	
Sum of Support Reactions in Z	0.00	kN	
Max Displacement in X	0.7	mm	Member No. 205, x: 0.000 m
Max Displacement in Y	17.8	mm	Member No. 625, x: 0.091 m
Max Displacement in Z	-2.6	mm	Member No. 201, x: 0.000 m
Max Vectorial Displacement	17.8	mm	Member No. 625, x: 0.091 m
Max rotation about X	2.3	mrاد	Member No. 623, x: 0.330 m
Max Rotation around Y	-0.7	mrاد	Member No. 202, x: 0.252 m
Max Rotation about Z	-1.3	mrاد	Member No. 219, x: 0.378 m
Method of Analysis	Linear		Linear Static Analysis
Number of Iterations	1		
LC8 - Dynamic load (1)			
Sum of Loads in X	0.00	kN	
Sum of Support Reactions in X	0.00	kN	
Sum of Loads in Y	0.00	kN	
Sum of Support Reactions in Y	0.00	kN	
Sum of Loads in Z	0.00	kN	
Sum of Support Reactions in Z	0.00	kN	
Max Displacement in X	0.4	mm	Member No. 702, x: 2.455 m
Max Displacement in Y	-3.1	mm	Member No. 602, x: 2.640 m
Max Displacement in Z	-0.2	mm	Member No. 404, x: 0.171 m
Max Vectorial Displacement	3.1	mm	Member No. 602, x: 2.640 m
Max rotation about X	-0.5	mrاد	Member No. 605, x: 0.165 m
Max Rotation around Y	-0.1	mrاد	Member No. 708, x: 1.134 m
Max Rotation about Z	0.9	mrاد	Member No. 301, x: 0.125 m
Method of Analysis	Linear		Linear Static Analysis
Number of Iterations	1		
LC9 - Dynamic load (2)			
Sum of Loads in X	0.00	kN	
Sum of Support Reactions in X	0.00	kN	
Sum of Loads in Y	0.00	kN	
Sum of Support Reactions in Y	0.00	kN	
Sum of Loads in Z	0.00	kN	
Sum of Support Reactions in Z	0.00	kN	
Max Displacement in X	-0.1	mm	Member No. 619, x: 0.091 m
Max Displacement in Y	1.0	mm	Member No. 623, x: 1.650 m
Max Displacement in Z	-0.1	mm	Member No. 221, x: 3.469 m
Max Vectorial Displacement	1.0	mm	Member No. 623, x: 1.650 m
Max rotation about X	-0.4	mrاد	Member No. 617, x: 0.330 m
Max Rotation around Y	-0.0	mrاد	Member No. 744, x: 1.118 m
Max Rotation about Z	0.1	mrاد	Member No. 308, x: 0.500 m
Method of Analysis	Linear		Linear Static Analysis
Number of Iterations	1		
Summary			
Max Displacement in X	0.8	mm	LC1, Member No. 604, x: 0.091 m
Max Displacement in Y	17.8	mm	LC7, Member No. 625, x: 0.091 m
Max Displacement in Z	7.1	mm	LC1, Member No. 508, x: 1.375 m
Max Vectorial Displacement	17.8	mm	LC7, Member No. 625, x: 0.091 m
Max rotation about X	2.3	mrاد	LC7, Member No. 623, x: 0.330 m
Max Rotation around Y	1.5	mrاد	LC1, Member No. 514, x: 2.500 m
Max Rotation about Z	-1.3	mrاد	LC7, Member No. 219, x: 0.378 m
Number of 1D Finite Elements (member elements)	364		
Number of FE nodes	234		
Number of Equations	1404		
Matrix Solver Method	Direct		
Max Number of Iterations	100		
Number of Load Increments	1		
Divisions of members for member results	10		
Divisions of cable, foundation or tapered members	10		
Activate shear rigidity (A-y, A-z) of members	No		

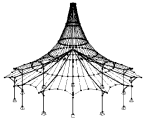


Project: Structure: **Dafni Konstantinidi - Sofrona (RSTAB)**

Date: 11.08.2011

3.3 CROSS SECTIONS - INTERNAL FORCES

Member No.	LC/LG	Node No.	Location x [m]	Shear Forces [kN]			Moments [kNm]		
				N	V _y	V _z	M _T	M _y	M _z
Section No. 1: FL 150x15 (BFL150*15)									
410	LC7	MAX N	0.000	3.21*	-2.05	0.00	0.00	0.00	-0.28
406	LC8	MIN N	0.000	-3.03*	3.60	0.00	0.00	0.00	0.50
410	LC1	MAX V _y	0.000	-0.08	7.35*	0.00	0.00	0.00	1.01
411	LC1	MIN V _y	0.171	0.08	-5.75*	0.00	0.00	0.00	0.98
413	LC1	MAX V _z	0.000	0.08	-3.49	0.01*	0.01	0.00	-0.48
416	LC1	MIN V _z	0.000	-0.08	5.12	-0.01*	0.01	0.00	0.00
416	LC1	MAX M _T	0.000	-0.08	5.12	-0.01	0.01*	0.00	0.00
456	LC1	MIN M _T	0.000	-0.08	5.11	0.01	-0.01*	0.00	0.00
453	LC1	MAX M _y	0.000	0.08	-3.49	-0.01	-0.01*	0.00*	-0.48
413	LC1	MIN M _y	0.000	0.08	-3.49	0.01	0.01	0.00*	-0.48
410	LC1	MAX M _z	0.000	-0.08	7.35	0.00	0.00	0.00	1.01*
412	LC1	MIN M _z	0.171	-0.08	7.29	0.00	0.00	0.00	-1.25*
Section No. 2: U 140									
516	LC1	MAX N	0.000	0.00*	0.21	0.00	0.00	0.00	0.00
501	LC1	MIN N	0.000	0.00*	0.21	0.00	0.00	0.00	0.00
501	LC1	MAX V _y	0.000	0.00	0.21*	0.00	0.00	0.00	0.00
501	LC1	MIN V _y	2.500	0.00	-0.21*	0.00	0.00	0.00	0.00
511	LC7	MAX V _z	0.000	0.00	0.00	0.00*	0.00	0.00	0.00
512	LC7	MIN V _z	0.000	0.00	0.00	0.00*	0.00	0.00	0.00
502	LC8	MAX M _T	0.000	0.00	0.00	0.00	0.00*	0.00	0.00
515	LC1	MIN M _T	0.000	0.00	0.21	0.00	0.00*	0.00	0.00
505	LC7	MAX M _y	0.000	0.00	0.00	0.00	0.00	0.00*	0.00
502	LC7	MIN M _y	0.000	0.00	0.00	0.00	0.00	0.00*	0.00
509	LC1	MAX M _z	0.000	0.00	0.21	0.00	0.00	0.00	0.00*
501	LC1	MIN M _z	1.250	0.00	0.00	0.00	0.00	0.00	-0.13*
Section No. 3: HE-A 160 (HEA160)									
626	LC7	MAX N	0.000	4.39*	0.00	3.01	0.00	-0.76	0.00
608	LC1	MIN N	0.000	-6.84*	0.00	-0.08	0.00	1.25	0.00
611	LC1	MAX V _y	0.000	-4.63	0.01*	-0.08	0.00	0.87	0.01
641	LC1	MIN V _y	0.000	-4.63	-0.01*	-0.08	0.00	0.87	-0.01
605	LC7	MAX V _z	0.000	3.49	0.00	3.01*	0.00	-0.61	0.00
605	LC7	MIN V _z	3.300	3.49	0.00	-3.01*	0.00	-0.60	0.00
641	LC1	MAX M _T	0.000	-4.63	-0.01	-0.08	0.00*	0.87	-0.01
611	LC1	MIN M _T	0.000	-4.63	0.01	-0.08	0.00*	0.87	0.01
608	LC7	MAX M _y	1.650	2.05	0.00	0.00	0.00	2.12*	0.00
605	LC8	MIN M _y	1.650	-3.60	0.00	0.12	0.00	-1.52*	0.00
611	LC1	MAX M _z	0.000	-4.63	0.01	-0.08	0.00	0.87	0.01*
641	LC1	MIN M _z	0.000	-4.63	-0.01	-0.08	0.00	0.87	-0.01*
Section No. 4: RO 139.7x6.3 (RO139.7*6.3)									
788	LC1	MAX N	4.140	45.25*	0.03	-0.14	0.03	0.11	-0.22
713	LC1	MIN N	0.000	-43.83*	0.09	-0.18	-0.01	0.34	0.14
708	LC7	MAX V _y	0.000	14.74	0.60*	-0.66	0.00	0.48	0.72
717	LC7	MIN V _y	0.000	36.59	-0.59*	0.35	0.01	-0.73	-0.90
709	LC7	MAX V _z	0.000	18.95	0.49	0.93*	0.18	-1.27	0.45
802	LC1	MIN V _z	2.011	2.31	0.02	-0.86*	0.09	-0.65	-0.13
793	LC7	MAX M _T	0.000	26.52	0.41	0.45	0.25*	-0.65	0.46
718	LC7	MIN M _T	0.000	26.51	-0.41	0.45	-0.25*	-0.65	-0.46
799	LC7	MAX M _y	0.000	-11.72	0.11	-0.50	-0.14	0.87*	0.02
709	LC7	MIN M _y	0.000	18.95	0.49	0.93	0.18	-1.27*	0.45
798	LC7	MAX M _z	2.520	13.57	-0.57	0.56	0.03	0.81	1.14*
711	LC7	MIN M _z	2.520	13.58	0.56	0.56	-0.03	0.82	-1.14*
Section No. 5: RO 244.5x12.5 (RO244.5*12.5)									
109	LC1	MAX N	0.000	124.44*	-0.05	1.10	0.13	0.21	0.06
211	LC7	MIN N	0.000	-157.23*	0.00	0.00	0.00	0.02	-1.22
203	LC7	MAX V _y	0.000	19.69	19.59*	-21.71	1.22	17.79	17.68
219	LC7	MIN V _y	0.000	19.68	-19.59*	21.70	-1.22	-9.57	-7.01
219	LC7	MAX V _z	0.000	19.68	-19.59	21.70*	-1.22	-9.57	-7.01
203	LC7	MIN V _z	0.000	19.69	19.59	-21.71*	1.22	17.79	17.68
103	LC7	MAX M _T	0.000	-5.63	1.99	0.74	1.44*	-1.14	4.05
116	LC7	MIN M _T	0.000	-5.62	-1.99	-0.74	-1.44*	0.71	-0.92
203	LC7	MAX M _y	0.000	19.69	19.59	-21.71	1.22	17.79*	17.68
203	LC7	MIN M _y	1.260	19.69	19.59	-21.71	1.22	-9.57*	-7.01
219	LC7	MAX M _z	1.260	19.68	-19.59	21.70	-1.22	17.78	17.68*
203	LC7	MIN M _z	1.260	19.69	19.59	-21.71	1.22	-9.57	-7.01*
Section No. 6: RO 139.7X10.0 (RO139.7*10.0-MSH)									
1035	LC7	MAX N	0.000	39.09*	-1.46	29.48	-7.05	-12.45	-0.54
1054	LC1	MIN N	0.000	-75.43*	8.99	7.48	2.14	-3.05	3.33
1054	LC1	MAX V _y	0.000	-75.43	8.99*	7.48	2.14	-3.05	3.33
1311	LC1	MIN V _y	0.000	-75.41	-8.99*	7.48	-2.14	-3.07	-3.33
1035	LC7	MAX V _z	0.000	39.09	-1.46	29.48*	-7.05	-12.45	-0.54
1292	LC1	MIN V _z	0.000	-19.89	4.79	-7.48*	-2.11	1.85	1.77
1311	LC7	MAX M _T	0.000	-39.07	-2.81	21.63	7.27*	-10.95	-1.04
1054	LC7	MIN M _T	0.000	-39.09	2.81	21.62	-7.27*	-10.91	1.04
1292	LC1	MAX M _y	0.000	-19.89	4.79	-7.48	-2.11	1.85*	1.77
1292	LC7	MIN M _y	0.000	39.07	1.46	29.47	7.04	-12.47*	0.54
1054	LC1	MAX M _z	0.000	-75.43	8.99	7.48	2.14	-3.05	3.33*
1311	LC1	MIN M _z	0.000	-75.41	-8.99	7.48	-2.14	-3.07	-3.33*
Section No. 7: RO 406.4x16.0 (EN 10210-2) (RO406.4*16.0-MSH)									
1296	LC7	MAX N	0.000	183.60*	1.41	-26.32	7.21	3.06	0.30
1314	LC7	MIN N	0.000	-183.60*	-2.76	-24.78	7.17	-0.47	0.61
1055	LC1	MAX V _y	0.000	-76.31	8.99*	7.48	2.14	-7.09	8.19
1039	LC7	MIN V _y	0.000	183.55	-26.42*	-2.01	-7.21	0.11	-3.12
1295	LC7	MAX V _z	0.000	171.61	0.72	54.54*	7.59	-2.94	0.81
1296	LC7	MIN V _z	0.000	183.60	1.41	-26.32*	7.21	3.06	0.30
1295	LC7	MAX M _T	0.000	171.61	0.72	54.54	7.59*	-2.94	0.81
1038	LC7	MIN M _T	0.000	171.57	-0.72	54.52	-7.59*	-2.90	-0.81
1293	LC1	MAX M _y	0.000	-21.16	4.79	-7.48	-2.11	7.77*	5.56



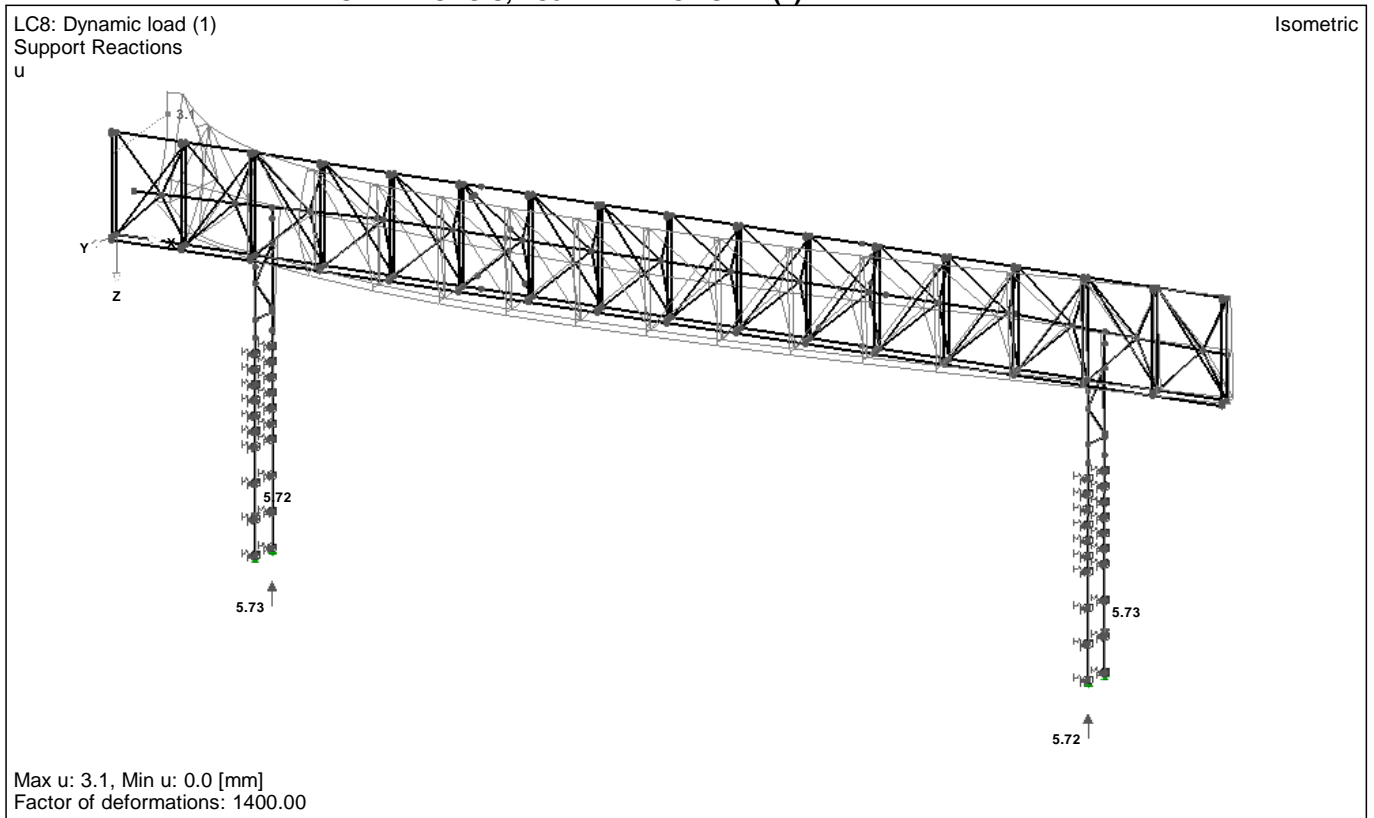
Project: Structure: **Dafni Konstantinidi - Sofrona (RSTAB)**

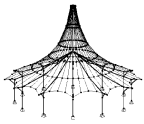
Date: 11.08.2011

3.3 CROSS SECTIONS - INTERNAL FORCES

Member No.	LC/LG	Node No.	Location x [m]	Shear Forces [kN]			Moments [kNm]		
				N	V _y	V _z	M _T	M _y	M _z
1293	LC7	MIN M _v	0.000	39.07	1.46	29.47	7.04	-35.78	1.70
1039	LC7	MAX M _z	0.588	183.55	-26.42	-2.01	-7.21	-1.08	12.41
1312	LC1	MIN M _z	0.000	-76.29	-8.99	7.48	-2.14	-7.12	-8.19
Section No. 8: RO 711x10									
1297	LC7	MAX N	0.000	183.60	-26.32	-1.41	7.21	-0.53	12.42
1315	LC7	MIN N	0.000	-183.60	-24.78	2.76	7.17	2.23	15.05
1047	LC7	MAX V _y	0.293	183.57	16.88	-0.87	-7.21	1.57	30.13
1297	LC7	MIN V _y	0.000	183.60	-26.32	-1.41	7.21	-0.53	12.42
1315	LC7	MAX V _z	0.000	-183.60	-24.78	2.76	7.17	2.23	15.05
1058	LC7	MIN V _z	0.000	-183.57	-24.79	-2.76	-7.17	-2.23	15.04
1297	LC7	MAX M _T	0.000	183.60	-26.32	-1.41	7.21	-0.53	12.42
1040	LC7	MIN M _T	0.000	183.57	-26.31	1.40	-7.21	0.53	12.45
1318	LC1	MAX M _y	0.175	-71.13	0.28	-0.02	1.60	6.38	2.00
1061	LC1	MIN M _y	0.175	-71.13	0.28	0.02	-1.60	-6.38	2.00
1044	LC7	MAX M _z	0.100	183.57	0.12	0.03	-7.21	2.52	49.16
1044	LC9	MIN M _z	0.125	-5.93	0.00	-0.02	-0.33	0.11	-1.70

DEFORMATIONS U, LC8: DYNAMIC LOAD (1)

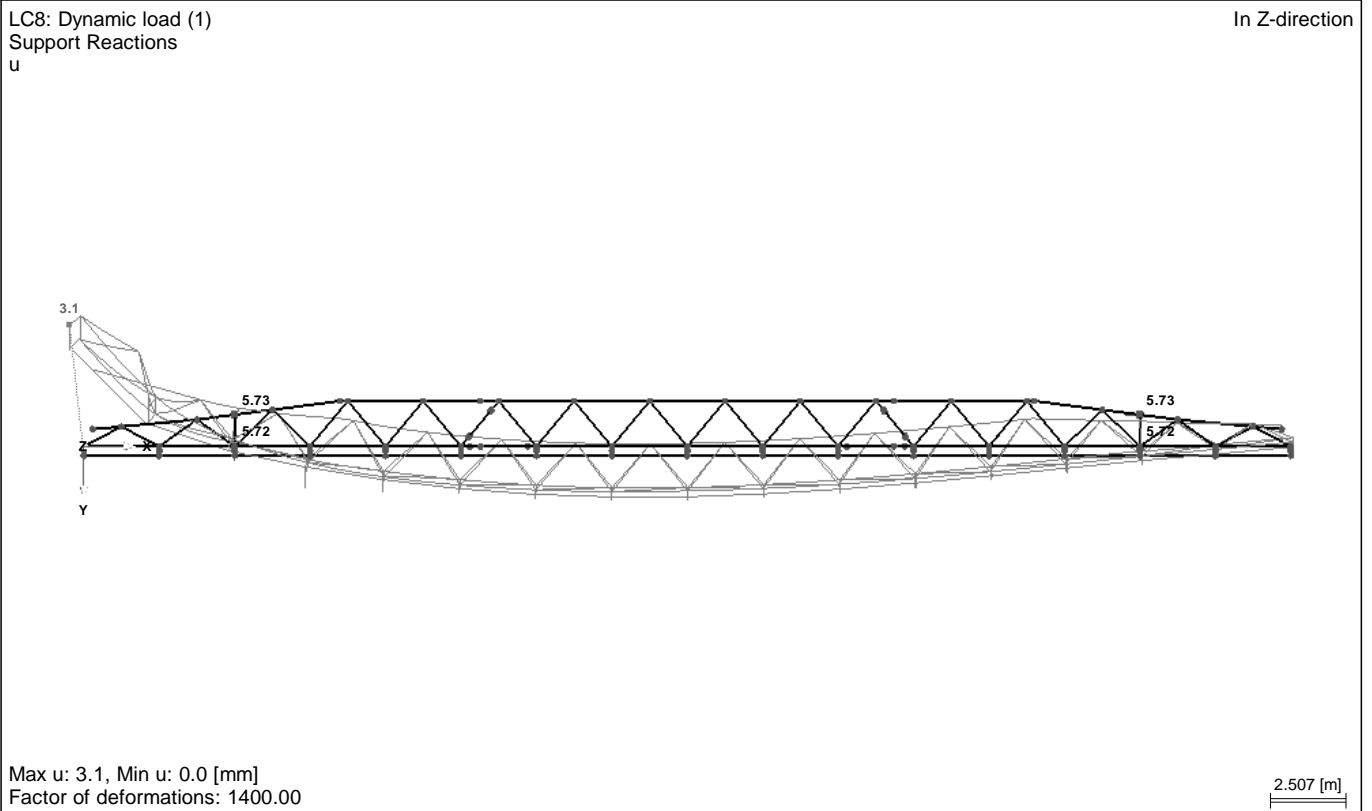




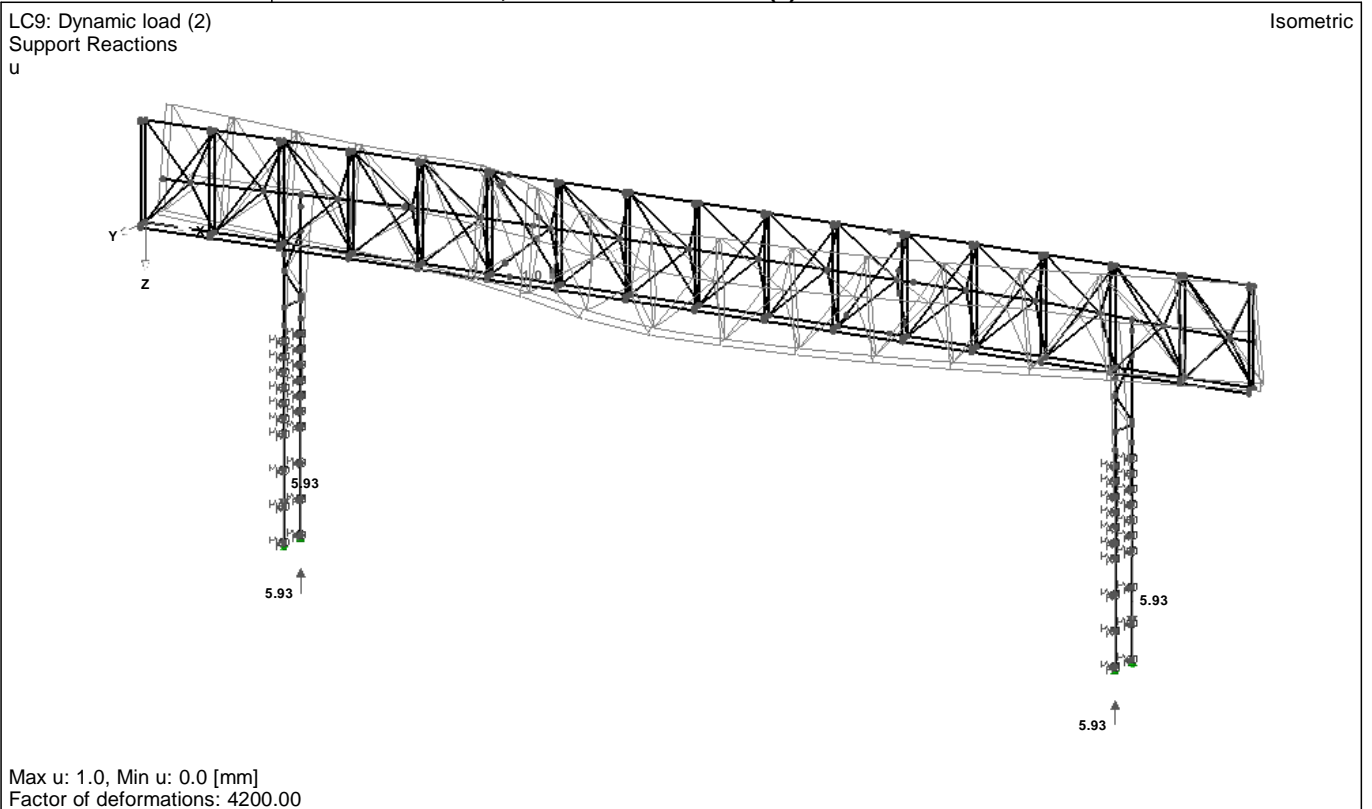
Project: [redacted] Structure: **Dafni Konstantinidi -
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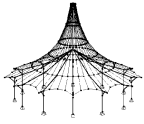
Date: 11.08.2011

■ DEFORMATIONS U, LC8: DYNAMIC LOAD (1)



■ DEFORMATIONS U, LC9: DYNAMIC LOAD (2)





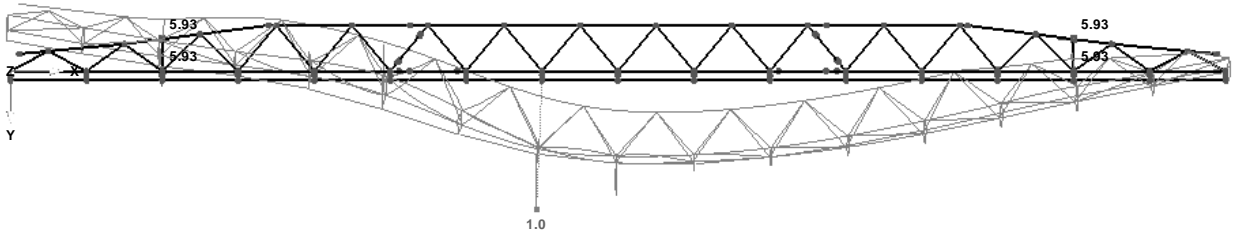
Project: Structure: **Dafni Konstantinidi - Sofrona (RSTAB)**

Date: 11.08.2011

■ DEFORMATIONS U, LC9: DYNAMIC LOAD (2)

LC9: Dynamic load (2)
 Support Reactions
 u

In Z-direction



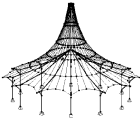
Max u: 1.0, Min u: 0.0 [mm]
 Factor of deformations: 4200.00

2.490 [m]

■ 3.3 CROSS SECTIONS - INTERNAL FORCES

Load combinations

Member No.	CO	Node No.	Location x [m]		Shear Forces [kN]			Moments [kNm]			Corresponding Load Cases
					N	V _y	V _z	M _T	M _y	M _z	
Section No. 1: FL 150x15 (BFL 150*15)											
414	CO3		0.000	MAX N	9.25*	-4.29	-0.01	0.02	0.01	-0.59	LC1,7,8
408	CO3		0.171	MIN N	-9.46*	12.63	0.00	0.00	0.00	-2.16	LC1,7,8
422	CO3		0.000	MAX V _y	-9.46	17.96*	0.00	0.01	0.00	2.48	LC1,7,9
423	CO3		0.171	MIN V _y	-8.36	-15.79*	0.00	0.01	0.00	2.70	LC1,7,9
413	CO3		0.000	MAX V _z	8.57	6.51	0.01*	0.02	-0.01	0.90	LC1,7,8
414	CO3		0.000	MIN V _z	9.25	-4.29	-0.01*	0.02	0.01	-0.59	LC1,7,8
416	CO3		0.000	MAX M _T	9.25	-4.32	-0.01	0.02	0.00	0.00	LC1,7,8
456	CO3		0.000	MIN M _T	4.71	2.14	0.01	-0.02*	0.00	0.00	LC1,7
414	CO3		0.000	MAX M _y	9.25	-4.29	-0.01	0.02	0.01*	-0.59	LC1,7,8
413	CO3		0.000	MIN M _y	8.57	6.51	0.01	0.02	-0.01*	0.90	LC1,7,8
423	CO3		0.171	MAX M _z	-8.36	-15.79	0.00	0.01	0.00	2.70*	LC1,7,9
424	CO3		0.171	MIN M _z	-9.46	17.88	0.00	0.01	0.00	-3.06*	LC1,7,9
Section No. 2: U 140											
516	CO3		0.000	MAX N	0.00*	0.28	0.00	0.00	0.00	0.00	LC1
501	CO3		0.000	MIN N	0.00*	0.28	0.00	0.00	0.00	0.00	LC1
501	CO3		0.000	MAX V _y	0.00	0.28*	0.00	0.00	0.00	0.00	LC1
501	CO3		2.500	MIN V _y	0.00	-0.28*	0.00	0.00	0.00	0.00	LC1
509	CO3		0.000	MAX V _z	0.00	0.28	0.00*	0.00	0.00	0.00	LC1
510	CO3		0.000	MIN V _z	0.00	0.28	0.00*	0.00	0.00	0.00	LC1
502	CO3		0.000	MAX M _T	0.00	0.28	0.00	0.00*	0.00	0.00	LC1,7,8
501	CO3		0.000	MIN M _T	0.00	0.28	0.00	0.00*	0.00	0.00	LC1,7,8
513	CO3		0.000	MAX M _y	0.00	0.28	0.00	0.00	0.00*	0.00	LC1
516	CO3		0.000	MIN M _y	0.00	0.28	0.00	0.00	0.00*	0.00	LC1
509	CO3		0.000	MAX M _z	0.00	0.28	0.00	0.00	0.00	0.00*	LC1
501	CO3		1.250	MIN M _z	0.00	0.00	0.00	0.00	0.00	-0.18*	LC1
Section No. 3: HE-A 160 (HEA160)											
623	CO3		3.300	MAX N	12.85*	0.00	-8.16	0.00	-2.23	0.00	LC1,7,9
617	CO3		0.000	MIN N	-17.26*	0.00	-8.86	0.00	3.10	0.01	LC1,7,9
611	CO3		0.000	MAX V _y	4.97	0.01*	8.64	0.00	-0.78	0.02	LC1,7,8
641	CO3		0.000	MIN V _y	-1.49	-0.01*	4.41	0.00	0.35	-0.02	LC1,7
623	CO3		0.000	MAX V _z	11.43	0.00	8.64*	0.00	-1.88	0.00	LC1,7,9
605	CO3		0.000	MIN V _z	-12.01	0.00	-8.86*	0.00	2.20	0.00	LC1,7,8
641	CO3		0.000	MAX M _T	-1.49	-0.01	4.41	0.00*	0.35	-0.02	LC1,7
611	CO3		0.000	MIN M _T	-1.50	0.01	4.41	0.00*	0.35	0.02	LC1,7
611	CO3		1.650	MAX M _y	5.69	0.01	-0.29	0.00	6.00*	0.00	LC1,7,8
605	CO3		1.650	MIN M _y	-11.30	0.00	0.07	0.00	-4.94*	0.00	LC1,7,8
611	CO3		0.000	MAX M _z	4.97	0.01	8.64	0.00	-0.78	0.02	LC1,7,8
641	CO3		0.000	MIN M _z	-1.49	-0.01	4.41	0.00	0.35	-0.02*	LC1,7
Section No. 4: RO 139.7x6.3 (RO139.7*6.3)											



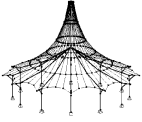
Project: Structure: **Dafni Konstantinidi - Sofrona (RSTAB)**

Date: 11.08.2011

3.3 CROSS SECTIONS - INTERNAL FORCES

Load combinations

Member No.	CO	Node No.	Location x [m]		Shear Forces [kN]			Moments [kNm]			Corresponding Load Cases
					N	V _y	V _z	M _T	M _y	M _z	
722	CO3		4.140	MAX N	70.91*	-0.05	-0.12	-0.14	0.31	0.32	LC1,7,9
713	CO3		0.000	MIN N	-88.51*	0.21	0.00	-0.21	-0.30	0.31	LC1,7,8
717	CO3		0.000	MAX V _y	-86.26	1.42*	-0.36	-0.10	1.06	2.28	LC1,7,9
708	CO3		0.000	MIN V _y	-47.92	-1.64*	1.86	-0.10	-1.41	-1.92	LC1,7,8
708	CO3		0.000	MAX V _z	-47.92	-1.64	1.86*	-0.10	-1.41	-1.92	LC1,7,8
709	CO3		2.011	MIN V _z	-25.06	-0.77	-2.58*	-0.41	-1.79	0.99	LC1,7,9
718	CO3		0.000	MAX M _T	-19.55	0.66	-1.09	0.42*	1.47	0.55	LC1,7,9
793	CO3		0.000	MIN M _T	-17.04	-0.63	-1.05	-0.41*	1.44	-0.53	LC1,7
709	CO3		0.000	MAX M _y	-24.68	-0.77	-2.13	-0.41	2.95*	-0.57	LC1,7,9
711	CO3		2.520	MIN M _y	-9.36	-1.28	-1.63	-0.02	-2.35*	2.44	LC1,7,8
711	CO3		2.520	MAX M _z	-20.98	-1.28	-1.59	-0.02	-2.26	2.45*	LC1,7,9
798	CO3		2.520	MIN M _z	-19.85	1.26	-1.56	0.02	-2.23	-2.41*	LC1,7
Section No. 5: RO 244.5x12.5 (RO244.5*12.5)											
109	CO3		0.000	MAX N	320.35*	0.03	1.38	0.23	0.49	-1.80	LC1,7,8
309	CO3		0.000	MIN N	-270.07*	0.11	1.43	0.10	0.24	1.58	LC1,7
219	CO3		0.000	MAX V _y	-20.19	35.88*	-45.97	0.48	20.46	12.90	LC1,7
203	CO3		0.000	MIN V _y	-18.78	-36.49*	48.04	-0.45	-38.92	-32.74	LC1,7,9
203	CO3		0.000	MAX V _z	-18.78	-36.49	48.04*	-0.45	-38.92	-32.74	LC1,7,9
219	CO3		1.260	MIN V _z	-20.19	35.88	-47.24*	0.48	-38.28	-32.32	LC1,7
203	CO3		0.000	MAX M _T	4.13	23.82	-17.35	3.55*	14.66	21.08	LC1,7,8
219	CO3		0.000	MIN M _T	39.10	-24.00	19.95	-3.21*	-8.61	-8.48	LC1,7,8
203	CO3		1.260	MAX M _y	-18.78	-36.49	46.76	-0.45	20.81*	13.24	LC1,7,9
203	CO3		0.000	MIN M _y	-18.78	-36.49	48.04	-0.45	-38.92*	-32.74	LC1,7,9
219	CO3		1.260	MAX M _z	39.10	-24.00	18.67	-3.21	15.73	21.78*	LC1,7,8
203	CO3		0.000	MIN M _z	-18.78	-36.49	48.04	-0.45	-38.92	-32.74*	LC1,7,9
Section No. 6: RO 139.7X10.0 (RO139.7*10.0-MSH)											
1054	CO2		0.000	MAX N	39.09*	-2.81	-21.62	7.27	10.91	-1.04	LC7
1311	CO3		0.000	MIN N	-161.85*	-17.05	43.85	8.94	-21.11	-6.31	LC1,7,8
1054	CO3		0.000	MAX V _y	-159.39	17.44*	41.52	-10.31	-19.90	6.45	LC1,7,8
1311	CO3		0.000	MIN V _y	-161.85	-17.05*	43.85	8.94	-21.11	-6.31	LC1,7,8
1311	CO3		0.000	MAX V _z	-161.81	-16.70	43.99*	8.72	-21.13	-6.18	LC1,7,9
1035	CO3		0.000	MIN V _z	-86.56	-4.99	-55.92*	10.25	21.58	-1.85	LC1,7,8
1054	CO3		0.000	MAX M _T	-43.19	7.91	-22.34	13.79*	12.25	2.93	LC1,7
1311	CO3		0.000	MIN M _T	-43.20	-7.92	-22.35	-13.80*	12.28	-2.93	LC1,7
1035	CO3		0.000	MAX M _y	-86.90	-4.52	-55.64	13.08	21.64*	-1.67	LC1,7,9
1311	CO3		0.000	MIN M _y	-161.81	-16.70	43.99	8.72	-21.13*	-6.18	LC1,7,9
1054	CO3		0.000	MAX M _z	-159.39	17.44	41.52	-10.31	-19.90	6.45*	LC1,7,8
1311	CO3		0.000	MIN M _z	-161.85	-17.05	43.85	8.94	-21.11	-6.31*	LC1,7,8
Section No. 7: RO 406.4x16.0 (EN 10210-2) (RO406.4*16.0-MSH)											
1296	CO3		0.000	MAX N	231.89*	-0.92	-40.66	13.72	1.04	-0.37	LC1,7,9
1314	CO3		0.588	MIN N	-376.21*	-6.92	-38.76	13.62	-25.86	9.25	LC1,7,9
1039	CO3		0.588	MAX V _y	-337.91	41.71*	0.15	8.12	0.28	-15.65	LC1,7,9
1039	CO3		0.000	MIN V _y	222.91	-38.95*	-6.12	-13.02	0.47	-0.77	LC1,7
1295	CO3		0.000	MAX V _z	213.92	-2.91	88.72*	14.81	-8.27	2.87	LC1,7,9
1038	CO3		0.000	MIN V _z	-317.16	5.13	-81.12*	8.18	0.69	-0.48	LC1,7,9
1295	CO3		0.000	MAX M _T	213.68	-2.98	88.51	15.13*	-8.28	2.85	LC1,7,8
1038	CO3		0.000	MIN M _T	197.79	2.65	82.70	-17.26*	-8.03	-3.41	LC1,7,8
1036	CO3		0.000	MAX M _y	-88.29	-4.99	-55.92	10.25	65.80*	-5.80	LC1,7,8
1312	CO3		0.000	MIN M _y	-162.99	-16.70	43.99	8.72	-44.93*	-15.21	LC1,7,9
1039	CO3		0.588	MAX M _z	221.63	-38.95	-6.12	-13.02	-3.13	22.13*	LC1,7
1039	CO3		0.588	MIN M _z	-337.91	41.71	0.15	8.12	0.28	-15.65*	LC1,7,9
Section No. 8: RO 711x10											
1297	CO3		0.000	MAX N	230.61*	-40.66	0.92	13.72	0.17	22.87	LC1,7,9
1324	CO3		1.165	MIN N	-393.37*	0.00	0.00	13.62	0.00	0.00	LC1,7,9
1040	CO3		0.000	MAX V _y	-337.95	41.10*	-5.21	8.12	-1.74	-15.56	LC1,7,9
1297	CO3		0.000	MIN V _y	230.61	-40.66*	0.92	13.72	0.17	22.87	LC1,7,9
1315	CO3		0.000	MAX V _z	-375.90	-38.68	7.10*	13.92	9.52	25.85	LC1,7,8
1058	CO3		0.000	MIN V _z	-358.69	-36.15	-7.61*	-15.60	-9.62	24.55	LC1,7,8
1297	CO3		0.000	MAX M _T	230.31	-40.58	0.96	14.02*	0.27	22.86	LC1,7,8
1040	CO3		0.000	MIN M _T	213.07	-37.90	-0.44	-15.92*	0.33	21.81	LC1,7,8
1318	CO3		0.350	MAX M _y	-380.43	-5.24	-0.03	13.92	18.48*	78.00	LC1,7,8
1061	CO3		0.375	MIN M _y	-363.29	-4.16	0.06	-15.60	-19.30*	73.34	LC1,7,8
1301	CO3		0.075	MAX M _z	225.52	0.25	0.08	13.72	1.51	78.95*	LC1,7,9
1044	CO3		0.125	MIN M _z	-343.16	-0.02	-0.06	8.12	-9.15	-73.64*	LC1,7,9

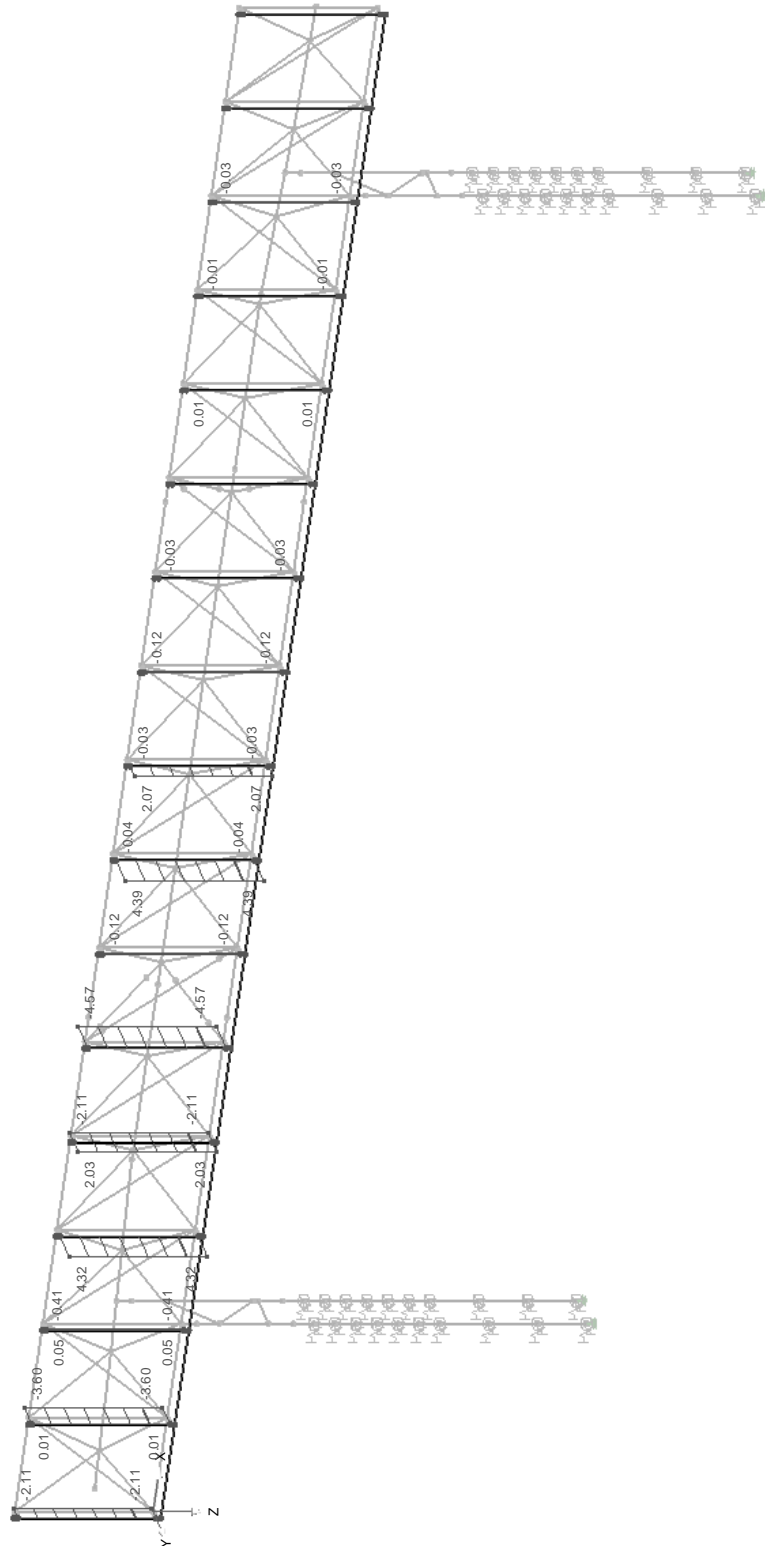


Project: Structure: Dafni Konstantinidi -
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MEMBERS N, CO1: DYNAMIC LOADS

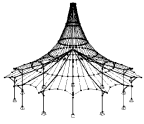
CO1: Dynamic Loads
Support Reactions
N

Isometric



Max N: 4.39, Min N: -4.57 [kN]





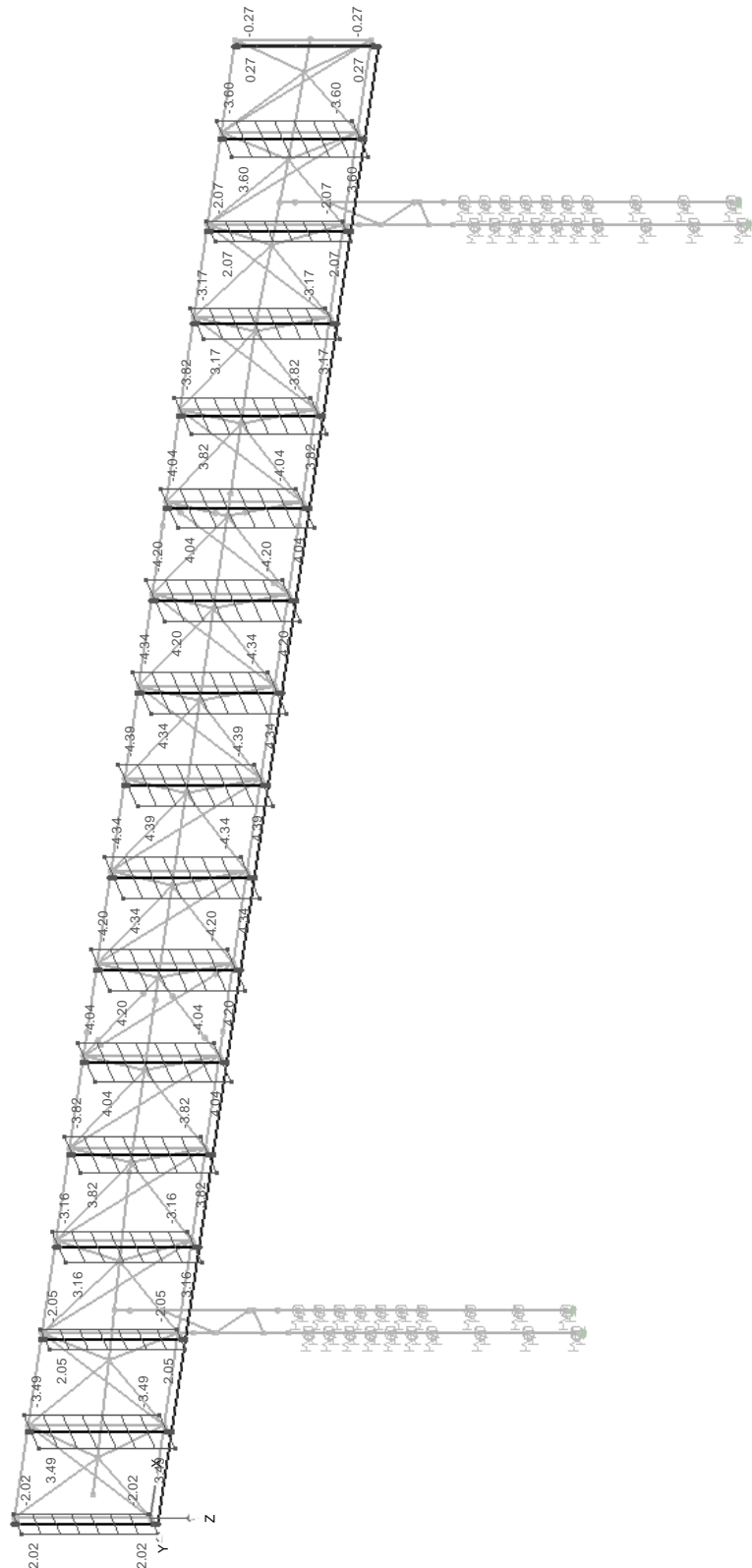
Project: Structure: **Dafni Konstantinidi - Sofrona (RSTAB)**

Date: 11.08.2011

MEMBERS N, CO2: WIND

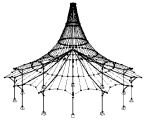
CO2: Wind
Support Reactions
N

Isometric



Max N: 4.39, Min N: -4.39 [kN]



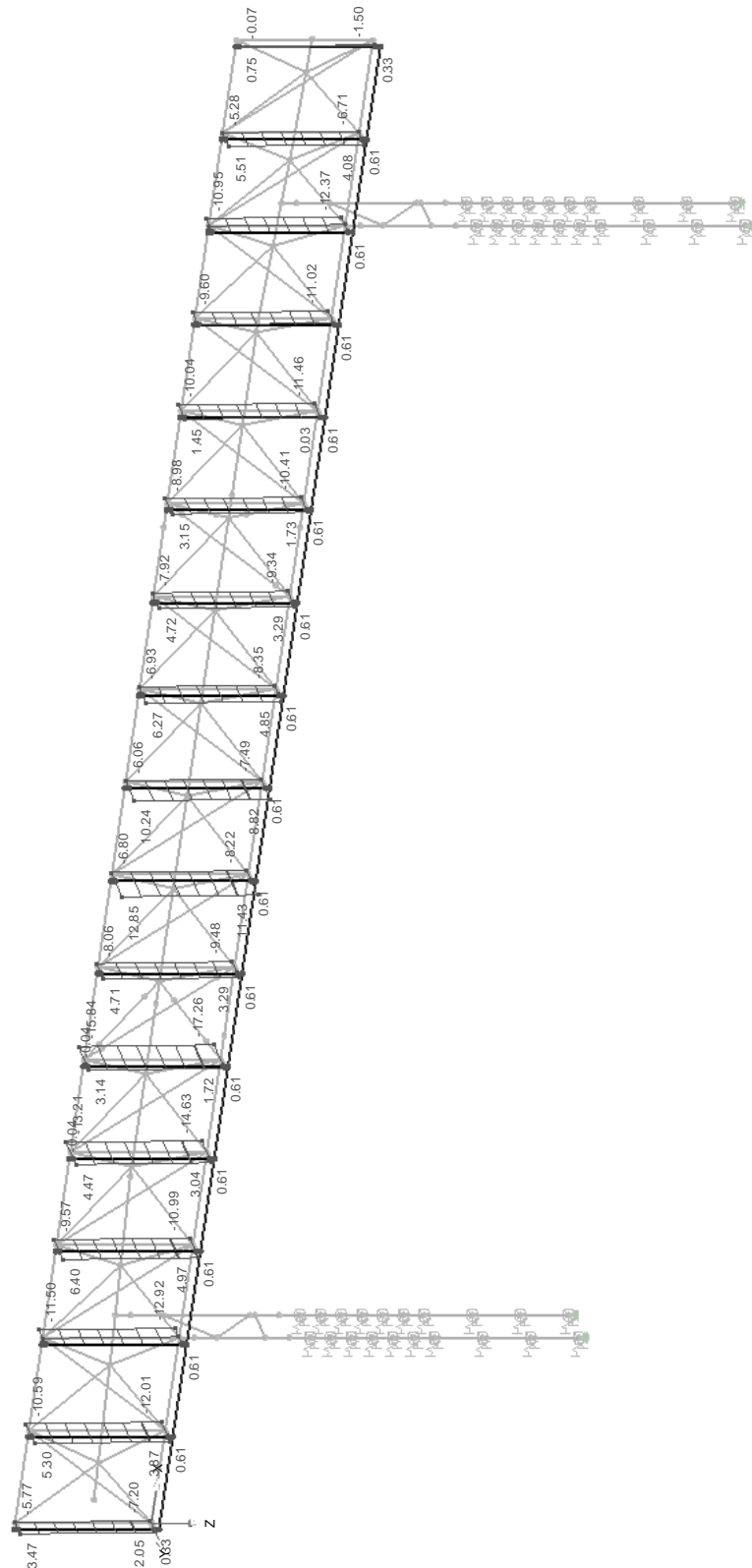


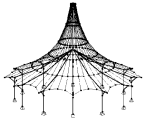
Project: Structure: **Dafni Konstantinidi - Sofrona (RSTAB)**

MEMBERS N, CO3: FINAL

CO3: Final
 Support Reactions
 N

Isometric





Project: Structure: **Dafni Konstantinidi - Sofrona (RSTAB)**

Date: 11.08.2011

STEEL
 CA1
 Stress Analysis

1.1.1 GENERAL DATA

Members to Design: All
 Sets of Members to Design: All
 Load Cases to Design: LC1 Self-weight

1.1.2 DETAILS

Allow Local Plastification:
 Calculate normal stresses with Alpha-pl:

FACTORS FOR SIGMA-EQV
 Sigma 1.00
 Tau 3.00

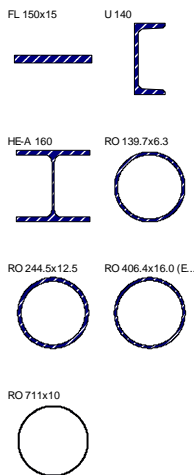
Simplified Consideration of Eccentric Loading:

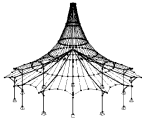
1.2.1 MATERIALS

Mat No	Material Description	Partial Factor $\gamma_M [-]$	Yield Strength $f_{yk} [kN/cm^2]$	Manually	Limit Stresses [kN/cm ²]		
					limit σ_x	limit τ	limit σ_{eqv}
1	Steel S 235	1.00	23.50	<input type="checkbox"/>	23.50	13.57	23.50

1.3.1 CROSS-SECTIONS

Sec No	Mat No	Cross-section Description	$I_x [cm^4]$ A [cm ²]	$I_y [cm^4]$ Alpha _{ply}	$I_z [cm^4]$ Alpha _{pl,z}	Comment	
1	1	FL 150x15	15.81 22.50	4.219 1.50	421.87 1.50	BFL150*15	
2	1	U 140	5.68 20.40	605.00 1.09	62.70 1.919		
3	1	HE-A 160	12.30 38.80	1670.00 1.118	616.00 1.53	HEA160	
4	1	RO 139.7x6.3	1174.62 26.40	588.62 1.331	588.62 1.331	RO139.7*6.3	
5	1	RO 244.5x12.5	12259.20 91.11	6147.42 1.339	6147.42 1.339	RO244.5*12.5	
6	1	RO 139.7X10.0	100000.00 1000.00	100000.00 1.00	100000.00 1.00		
7	1	The section will not be designed because its cross-section data is not defined!					
		RO 406.4x16.0 (EN 10210-2)	74772.10 196.24	37448.80 1.324	37448.80 1.324	RO406.4*16.0-MSH	
8	1	RO 711x10	270548.00 220.23	135301.00 1.291	135301.00 1.291		





STEEL

Project: Structure: **Dafni Konstantinidi - Sofrona (RSTAB)**

Date: 11.08.2011

STEEL
 CA1
 Stress Analysis

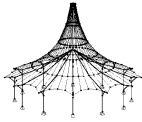
2.1 STRESSES BY CROSS-SECTION

Sec No	Member No	Loc x [m]	S-Point No	Load Case	Stress Type	Stress [kN/cm ²]		Stress Ratio
						existing	Limit	
1	FL 150x15 - BFL150*15				Sigma Total	-2.23	23.50	0.09
	412	0.171	2	LC1	Tau Total	0.12	13.57	0.01
	412	0.171	2	LC1	Sigma-eqv	2.23	23.50	0.09
2	U 140				Sigma Total	0.89	23.50	0.04
	501	1.250	6	LC1	Tau Total	0.04	13.57	0.00
	515	1.250	6	LC1	Sigma-eqv	0.89	23.50	0.04
3	HE-A 160 - HEA160				Sigma Total	-0.75	23.50	0.03
	641	0.000	5	LC1	Tau Total	-0.02	13.57	0.00
	608	0.000	5	LC1	Sigma-eqv	0.75	23.50	0.03
4	RO 139.7x6.3 - RO139.7*6.3				Sigma Total	2.21	23.50	0.09
	788	0.000	9	LC1	Tau Total	0.12	13.57	0.01
	802	2.011	19	LC1	Sigma-eqv	2.21	23.50	0.09
5	RO 244.5x12.5 - RO244.5*12.5				Sigma Total	1.98	23.50	0.08
	219	1.260	7	LC1	Tau Total	-0.35	13.57	0.03
	219	1.260	35	LC1	Sigma-eqv	1.99	23.50	0.08
7	RO 406.4x16.0 (EN 10210-2) - RO406.4*16.0-MSH				Sigma Total	-0.98	23.50	0.04
	1312	0.000	23	LC1	Tau Total	0.17	13.57	0.01
	1055	0.000	6	LC1	Sigma-eqv	0.98	23.50	0.04
8	RO 711x10				Sigma Total	-0.50	23.50	0.02
	1061	0.175	30	LC1	Tau Total	0.04	13.57	0.00
	1297	0.000	1	LC1	Sigma-eqv	0.50	23.50	0.02

3.1 GOVERNING INTERNAL FORCES BY MEMBER

Member No	Loc x [m]	Load Case	Forces [kN]			Moments [kNm]		
			N	V _y	V _z	M _T	M _y	M _z
101	1.667	LC1	-3.98	-0.26	-0.10	-0.32	0.96	0.52
102	2.500	LC1	-10.43	1.21	-3.32	0.08	-4.28	-2.06
103	0.000	LC1	-11.99	-2.25	3.28	0.70	-4.47	-4.13
104	0.000	LC1	28.33	0.40	1.18	1.02	-0.07	1.03
105	2.000	LC1	65.28	-0.16	-0.03	0.80	0.89	0.19
106	0.645	LC1	93.33	-0.01	0.77	0.58	0.55	0.13
107	1.020	LC1	93.33	-0.01	0.01	0.58	0.95	0.14
108	1.500	LC1	113.03	-0.01	0.04	0.34	0.97	0.08
109	1.500	LC1	124.44	-0.05	-0.02	0.13	1.02	0.13
110	1.000	LC1	124.43	0.05	0.02	-0.13	1.02	0.13
111	1.000	LC1	113.03	0.01	-0.04	-0.34	0.97	0.08
112	0.835	LC1	93.33	0.01	-0.01	-0.58	0.95	0.14
113	0.000	LC1	93.33	0.01	-0.77	-0.58	0.55	0.13
114	0.500	LC1	65.28	0.16	0.03	-0.80	0.89	0.19
115	2.500	LC1	28.33	-0.40	-1.18	-1.02	-0.07	1.03
116	2.500	LC1	-11.99	2.25	-3.28	-0.69	-4.47	-4.13
117	0.000	LC1	-10.41	-1.22	3.32	-0.05	-4.28	-2.06
118	0.833	LC1	-3.92	0.25	0.11	0.40	0.96	0.54
201	3.469	LC1	0.00	0.00	-2.61	0.00	-4.52	0.00
202	1.260	LC1	1.21	1.99	-5.94	0.10	-8.71	-2.18
203	0.000	LC1	6.91	-4.81	10.88	1.01	-8.59	-4.29
204	0.000	LC1	0.00	0.75	-0.68	1.28	3.26	1.50
205	0.258	LC1	0.10	0.74	-2.57	1.24	-1.02	-0.39
206	0.000	LC1	0.88	-0.16	1.31	1.01	-0.76	-0.31
207	1.232	LC1	0.72	0.06	0.00	0.77	0.69	0.00
208	0.000	LC1	0.72	0.06	-0.50	0.77	0.52	-0.04
209	1.250	LC1	0.79	0.01	0.04	0.51	0.73	-0.07
210	1.250	LC1	0.77	0.02	0.01	0.26	0.79	-0.09
211	1.250	LC1	0.71	0.00	0.00	0.00	0.81	-0.10
212	1.250	LC1	0.77	-0.02	-0.01	-0.27	0.79	-0.09
213	1.250	LC1	0.79	-0.01	-0.04	-0.51	0.73	-0.07
214	0.605	LC1	0.72	-0.06	0.50	-0.77	0.52	-0.04
215	0.663	LC1	0.72	-0.06	0.00	-0.77	0.69	0.00
216	2.500	LC1	0.88	0.16	-1.31	-1.01	-0.76	-0.31
217	0.000	LC1	0.10	-0.74	2.57	-1.25	-1.01	-0.39
218	2.261	LC1	0.00	-0.75	0.68	-1.29	3.26	1.50
219	1.260	LC1	6.91	4.81	-10.88	-1.01	-8.60	-4.29
220	0.000	LC1	1.21	-2.00	5.95	-0.10	-8.71	-2.18
221	0.000	LC1	0.00	0.00	2.61	0.00	-4.52	0.00
301	2.500	LC1	-0.29	0.22	-1.01	-0.27	-0.18	-0.59
302	2.500	LC1	7.31	-1.41	-2.15	-0.38	-2.69	2.87
303	0.000	LC1	-15.75	1.58	2.39	0.85	-3.02	3.00
304	1.667	LC1	-60.43	-0.14	0.14	0.97	0.76	-0.41
305	1.667	LC1	-90.40	0.16	-0.06	0.86	0.83	-0.30
306	0.645	LC1	-112.84	0.08	0.67	0.65	0.60	-0.27
307	0.927	LC1	-112.84	0.08	-0.03	0.65	0.89	-0.34



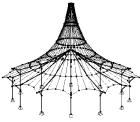


Project: Structure: **Dafni Konstantinidi - Sofrona (RSTAB)**

Date: 11.08.2011

3.1 GOVERNING INTERNAL FORCES BY MEMBER

Member No	Loc x [m]	Load Case	Forces [kN]			Moments [kNm]		
			N	V _y	V _z	M _T	M _y	M _z
308	1.375	LC1	-126.77	0.04	-0.04	0.41	0.92	-0.31
309	1.250	LC1	-132.15	0.05	0.04	0.13	0.97	-0.32
310	1.250	LC1	-132.15	-0.05	-0.04	-0.13	0.97	-0.32
311	1.125	LC1	-126.77	-0.04	0.04	-0.41	0.92	-0.31
312	0.928	LC1	-112.84	-0.08	0.03	-0.65	0.89	-0.34
313	0.000	LC1	-112.84	-0.08	-0.67	-0.65	0.60	-0.27
314	0.833	LC1	-90.40	-0.16	0.06	-0.86	0.83	-0.30
315	0.833	LC1	-60.43	0.14	-0.14	-0.97	0.76	-0.41
316	2.500	LC1	-15.75	-1.58	-2.39	-0.86	-3.02	3.00
317	0.000	LC1	7.32	1.41	2.15	0.37	-2.69	2.86
318	0.000	LC1	-0.24	-0.23	1.01	0.25	-0.17	-0.60
401	0.000	LC1	0.07	0.41	0.00	0.00	0.00	0.05
402	0.000	LC1	-0.07	1.04	0.00	0.00	0.00	0.14
403	0.171	LC1	0.07	0.35	0.00	0.00	0.00	-0.06
404	0.171	LC1	-0.07	0.98	0.00	0.00	0.00	-0.17
405	0.000	LC1	0.08	0.12	0.00	0.00	0.00	0.01
406	0.000	LC1	-0.08	1.53	0.00	-0.01	0.00	0.21
407	0.171	LC1	0.08	0.06	0.00	0.00	0.00	-0.01
408	0.171	LC1	-0.08	1.48	0.00	-0.01	0.00	-0.26
409	0.000	LC1	0.08	-5.70	0.00	0.00	0.00	-0.79
410	0.000	LC1	-0.08	7.35	0.00	0.00	0.00	1.01
411	0.171	LC1	0.08	-5.75	0.00	0.00	0.00	0.98
412	0.171	LC1	-0.08	7.29	0.00	0.00	0.00	-1.25
413	0.000	LC1	0.08	-3.49	0.01	0.01	0.00	-0.48
414	0.000	LC1	-0.08	5.14	-0.01	0.01	0.00	0.71
415	0.171	LC1	0.08	-3.54	0.01	0.01	0.00	0.60
416	0.171	LC1	-0.08	5.08	-0.01	0.01	0.00	-0.87
417	0.000	LC1	0.08	-3.10	0.01	0.01	0.00	-0.43
418	0.000	LC1	-0.08	4.76	-0.01	0.01	0.00	0.65
419	0.171	LC1	0.08	-3.16	0.01	0.01	0.00	0.54
420	0.171	LC1	-0.08	4.70	-0.01	0.01	0.00	-0.81
421	0.000	LC1	0.08	-2.08	0.00	0.01	0.00	-0.29
422	0.000	LC1	-0.08	3.73	0.00	0.01	0.00	0.51
423	0.171	LC1	0.08	-2.13	0.00	0.01	0.00	0.36
424	0.171	LC1	-0.08	3.67	0.00	0.01	0.00	-0.63
425	0.000	LC1	0.08	-1.08	0.00	0.00	0.00	-0.15
426	0.000	LC1	-0.08	2.74	0.00	0.00	0.00	0.38
427	0.171	LC1	0.08	-1.14	0.00	0.00	0.00	0.19
428	0.171	LC1	-0.08	2.68	0.00	0.00	0.00	-0.46
429	0.000	LC1	0.08	-0.09	0.00	0.00	0.00	-0.01
430	0.000	LC1	-0.08	1.74	0.00	0.00	0.00	0.24
431	0.171	LC1	0.08	-0.15	0.00	0.00	0.00	0.02
432	0.171	LC1	-0.08	1.69	0.00	0.00	0.00	-0.29
433	0.000	LC1	0.08	0.50	0.00	0.00	0.00	0.07
434	0.000	LC1	-0.08	1.16	0.00	0.00	0.00	0.16
435	0.171	LC1	0.08	0.44	0.00	0.00	0.00	-0.08
436	0.171	LC1	-0.08	1.10	0.00	0.00	0.00	-0.19
437	0.000	LC1	0.08	-0.09	0.00	0.00	0.00	-0.01
438	0.000	LC1	-0.08	1.74	0.00	0.00	0.00	0.24
439	0.171	LC1	0.08	-0.15	0.00	0.00	0.00	0.02
440	0.171	LC1	-0.08	1.69	0.00	0.00	0.00	-0.29
441	0.000	LC1	0.08	-1.08	0.00	0.00	0.00	-0.15
442	0.000	LC1	-0.08	2.74	0.00	0.00	0.00	0.38
443	0.171	LC1	0.08	-1.14	0.00	0.00	0.00	0.19
444	0.171	LC1	-0.08	2.68	0.00	0.00	0.00	-0.46
445	0.000	LC1	0.08	-2.08	0.00	-0.01	0.00	-0.29
446	0.000	LC1	-0.08	3.73	0.00	-0.01	0.00	0.51
447	0.171	LC1	0.08	-2.13	0.00	-0.01	0.00	0.36
448	0.171	LC1	-0.08	3.67	0.00	-0.01	0.00	-0.63
449	0.000	LC1	0.08	-3.10	-0.01	-0.01	0.00	-0.43
450	0.000	LC1	-0.08	4.75	0.01	-0.01	0.00	0.65
451	0.171	LC1	0.08	-3.16	-0.01	-0.01	0.00	0.54
452	0.171	LC1	-0.08	4.70	0.01	-0.01	0.00	-0.81
453	0.000	LC1	0.08	-3.49	-0.01	-0.01	0.00	-0.48
454	0.000	LC1	-0.08	5.14	0.01	-0.01	0.00	0.71
455	0.171	LC1	0.08	-3.54	-0.01	-0.01	0.00	0.60
456	0.171	LC1	-0.08	5.08	0.01	-0.01	0.00	-0.87
457	0.000	LC1	0.08	-5.69	0.00	0.00	0.00	-0.79
458	0.000	LC1	-0.08	7.34	0.00	0.00	0.00	1.01
459	0.171	LC1	0.08	-5.74	0.00	0.00	0.00	0.98
460	0.171	LC1	-0.08	7.28	0.00	0.00	0.00	-1.25
461	0.000	LC1	0.08	0.17	0.00	0.00	0.00	0.02
462	0.000	LC1	-0.08	1.48	0.00	0.01	0.00	0.20
463	0.171	LC1	0.08	0.11	0.00	0.00	0.00	-0.02
464	0.171	LC1	-0.08	1.43	0.00	0.01	0.00	-0.25
465	0.000	LC1	-0.02	1.11	0.00	0.00	0.00	0.33
467	0.000	LC1	0.02	0.34	0.00	0.00	0.00	0.04
468	0.171	LC1	0.02	0.28	0.00	0.00	0.00	-0.05
501	1.250	LC1	0.00	0.00	0.00	0.00	0.00	-0.13
502	1.250	LC1	0.00	0.00	0.00	0.00	0.00	-0.13
503	1.250	LC1	0.00	0.00	0.00	0.00	0.00	-0.13
504	1.250	LC1	0.00	0.00	0.00	0.00	0.00	-0.13
505	1.250	LC1	0.00	0.00	0.00	0.00	0.00	-0.13
506	1.250	LC1	0.00	0.00	0.00	0.00	0.00	-0.13
507	1.250	LC1	0.00	0.00	0.00	0.00	0.00	-0.13
508	1.250	LC1	0.00	0.00	0.00	0.00	0.00	-0.13
509	1.250	LC1	0.00	0.00	0.00	0.00	0.00	-0.13
510	1.250	LC1	0.00	0.00	0.00	0.00	0.00	-0.13

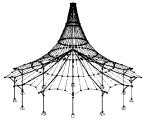


Project: Structure: **Dafni Konstantinidi - Sofrona (RSTAB)**

Date: 11.08.2011

3.1 GOVERNING INTERNAL FORCES BY MEMBER

Member No	Loc x [m]	Load Case	Forces [kN]			Moments [kNm]		
			N	V _y	V _z	M _T	M _y	M _z
511	1.250	LC1	0.00	0.00	0.00	0.00	0.00	-0.13
512	1.250	LC1	0.00	0.00	0.00	0.00	0.00	-0.13
513	1.250	LC1	0.00	0.00	0.00	0.00	0.00	-0.13
514	1.250	LC1	0.00	0.00	0.00	0.00	0.00	-0.13
515	1.250	LC1	0.00	0.00	0.00	0.00	0.00	-0.13
516	1.250	LC1	0.00	0.00	0.00	0.00	0.00	-0.13
601	0.000	LC1	-0.03	0.00	0.00	0.00	0.00	0.00
602	0.000	LC1	-0.74	0.00	-0.07	0.00	0.17	0.00
603	0.109	LC1	0.25	0.00	0.00	0.00	0.00	0.00
604	0.000	LC1	-0.03	0.00	0.00	0.00	0.00	0.00
605	0.000	LC1	-1.02	0.00	-0.08	0.00	0.26	-0.01
606	0.109	LC1	0.46	0.00	0.00	0.00	0.00	0.00
607	0.000	LC1	-0.03	0.00	0.00	0.00	0.00	0.00
608	0.000	LC1	-6.84	0.00	-0.08	0.00	1.25	0.00
609	0.109	LC1	0.46	0.00	0.00	0.00	0.00	0.00
610	0.000	LC1	-0.03	0.00	0.00	0.00	0.00	0.00
611	0.000	LC1	-4.63	0.01	-0.08	0.00	0.87	0.01
612	0.109	LC1	0.46	0.00	0.00	0.00	0.00	0.00
613	0.000	LC1	-0.03	0.00	0.00	0.00	0.00	0.00
614	0.000	LC1	-4.24	0.01	-0.08	0.00	0.81	0.01
615	0.109	LC1	0.46	0.00	0.00	0.00	0.00	0.00
616	0.000	LC1	-0.03	0.00	0.00	0.00	0.00	0.00
617	0.000	LC1	-3.22	0.00	-0.08	0.00	0.63	0.01
618	0.109	LC1	0.46	0.00	0.00	0.00	0.00	0.00
619	0.000	LC1	-0.03	0.00	0.00	0.00	0.00	0.00
620	0.000	LC1	-2.23	0.00	-0.08	0.00	0.46	0.00
621	0.109	LC1	0.46	0.00	0.00	0.00	0.00	0.00
622	0.000	LC1	-0.03	0.00	0.00	0.00	0.00	0.00
623	0.000	LC1	-1.23	0.00	-0.08	0.00	0.29	0.00
624	0.109	LC1	0.46	0.00	0.00	0.00	0.00	0.00
625	0.000	LC1	-0.03	0.00	0.00	0.00	0.00	0.00
626	0.000	LC1	-0.64	0.00	-0.08	0.00	0.19	0.00
627	0.109	LC1	0.46	0.00	0.00	0.00	0.00	0.00
628	0.000	LC1	-0.03	0.00	0.00	0.00	0.00	0.00
629	0.000	LC1	-1.23	0.00	-0.08	0.00	0.29	0.00
630	0.109	LC1	0.46	0.00	0.00	0.00	0.00	0.00
631	0.000	LC1	-0.03	0.00	0.00	0.00	0.00	0.00
632	0.000	LC1	-2.23	0.00	-0.08	0.00	0.46	0.00
633	0.109	LC1	0.46	0.00	0.00	0.00	0.00	0.00
634	0.000	LC1	-0.03	0.00	0.00	0.00	0.00	0.00
635	0.000	LC1	-3.22	0.00	-0.08	0.00	0.63	-0.01
636	0.109	LC1	0.46	0.00	0.00	0.00	0.00	0.00
637	0.000	LC1	-0.03	0.00	0.00	0.00	0.00	0.00
638	0.000	LC1	-4.24	-0.01	-0.08	0.00	0.81	-0.01
639	0.109	LC1	0.46	0.00	0.00	0.00	0.00	0.00
640	0.000	LC1	-0.03	0.00	0.00	0.00	0.00	0.00
641	0.000	LC1	-4.63	-0.01	-0.08	0.00	0.87	-0.01
642	0.109	LC1	0.46	0.00	0.00	0.00	0.00	0.00
643	0.000	LC1	-0.03	0.00	0.00	0.00	0.00	0.00
644	0.000	LC1	-6.83	0.00	-0.08	0.00	1.25	0.00
645	0.109	LC1	0.46	0.00	0.00	0.00	0.00	0.00
646	0.000	LC1	-0.03	0.00	0.00	0.00	0.00	0.00
647	0.000	LC1	-0.97	0.00	-0.08	0.00	0.25	0.01
648	0.109	LC1	0.46	0.00	0.00	0.00	0.00	0.00
649	0.000	LC1	-0.03	0.00	0.00	0.00	0.00	0.00
650	3.300	LC1	0.25	0.00	-0.02	0.00	-0.05	0.00
651	0.109	LC1	0.25	0.00	0.00	0.00	0.00	0.00
701	0.000	LC1	-2.66	0.02	0.09	0.04	-0.14	0.04
702	2.455	LC1	0.30	-0.05	-0.20	0.04	-0.10	0.07
703	1.431	LC1	-0.69	-0.03	-0.01	0.02	0.07	0.03
704	4.140	LC1	7.72	0.04	-0.27	0.02	-0.15	-0.13
705	0.984	LC1	0.15	-0.01	0.00	0.03	0.08	0.08
706	0.000	LC1	-0.12	0.10	0.24	0.02	-0.03	0.18
707	0.000	LC1	-4.75	-0.12	0.00	0.08	0.01	-0.23
708	2.521	LC1	-5.22	-0.39	0.19	0.01	0.49	0.68
709	0.000	LC1	2.58	-0.01	-0.52	-0.09	0.74	0.10
710	0.000	LC1	6.56	-0.07	0.28	0.00	-0.26	-0.18
711	2.520	LC1	0.36	-0.31	-0.54	-0.05	-0.74	0.51
712	2.011	LC1	-4.94	0.50	-0.26	-0.09	-0.43	-0.48
713	0.000	LC1	-43.83	0.09	-0.18	-0.01	0.34	0.14
714	2.651	LC1	7.09	0.23	-0.40	-0.01	-0.42	-0.41
715	2.172	LC1	-18.09	-0.51	-0.48	0.07	-0.51	0.58
716	0.000	LC1	39.48	0.09	0.38	-0.01	-0.46	0.31
717	0.000	LC1	-21.89	0.36	0.11	-0.06	-0.03	0.64
718	2.172	LC1	16.56	0.01	-0.66	0.03	-0.68	-0.14
719	0.000	LC1	-29.06	0.35	0.00	-0.14	0.04	0.60
720	0.466	LC1	14.91	-0.06	0.04	-0.08	0.20	-0.11
721	0.000	LC1	-11.11	-0.10	0.03	-0.10	0.27	-0.19
722	0.000	LC1	44.53	-0.03	0.40	-0.03	-0.43	0.09
723	0.000	LC1	-10.50	0.13	0.32	-0.06	-0.31	0.21
724	2.346	LC1	8.10	-0.02	-0.35	-0.04	-0.35	-0.04
725	0.000	LC1	-26.95	0.26	0.05	-0.09	-0.05	0.43
726	0.466	LC1	10.55	-0.02	0.00	-0.05	0.23	-0.08
727	0.000	LC1	-9.23	-0.10	0.07	-0.05	0.17	-0.15
728	0.000	LC1	33.20	-0.04	0.38	-0.01	-0.38	0.04
729	0.000	LC1	-8.91	0.14	0.28	-0.04	-0.21	0.23
730	2.346	LC1	6.87	-0.03	-0.35	-0.02	-0.30	-0.02
731	0.000	LC1	-20.18	0.20	0.06	-0.07	-0.08	0.34

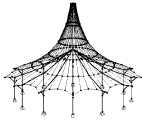


Project: Structure: **Dafni Konstantinidi - Sofrona (RSTAB)**

Date: 11.08.2011

3.1 GOVERNING INTERNAL FORCES BY MEMBER

Member No	Loc x [m]	Load Case	Forces [kN]			Moments [kNm]		
			N	V _y	V _z	M _T	M _y	M _z
732	0.550	LC1	8.23	-0.04	0.03	-0.03	0.18	-0.08
733	0.550	LC1	-7.06	-0.04	-0.32	-0.04	-0.11	0.02
734	0.485	LC1	24.50	-0.05	-0.20	-0.01	0.00	0.19
735	0.000	LC1	8.23	-0.04	0.03	-0.03	0.18	-0.08
736	0.000	LC1	-6.84	-0.04	0.01	-0.04	0.16	-0.06
737	0.550	LC1	-6.84	-0.04	0.01	-0.04	0.16	-0.06
738	0.550	LC1	7.88	-0.04	-0.32	-0.03	-0.14	0.01
739	2.717	LC1	24.33	-0.05	-0.08	-0.01	0.13	0.15
740	0.000	LC1	-5.94	0.11	0.26	-0.02	-0.17	0.17
741	2.346	LC1	4.44	-0.04	-0.30	-0.01	-0.22	0.01
742	0.000	LC1	23.78	-0.05	0.35	-0.01	-0.30	0.00
743	0.000	LC1	-13.56	0.13	0.07	-0.05	-0.09	0.22
744	0.932	LC1	5.35	-0.04	0.00	-0.02	0.15	-0.05
745	1.525	LC1	-4.56	0.00	0.01	-0.03	0.13	0.02
746	0.000	LC1	14.17	-0.05	0.32	-0.01	-0.24	-0.04
747	2.795	LC1	-3.14	0.08	-0.24	-0.01	-0.12	-0.13
748	0.000	LC1	2.21	-0.05	0.27	-0.01	-0.15	-0.03
749	0.000	LC1	-6.96	0.07	0.07	-0.02	-0.10	0.12
750	0.932	LC1	2.74	-0.04	0.03	-0.01	0.11	-0.04
751	0.938	LC1	-2.32	0.03	0.00	-0.02	0.10	0.00
752	4.140	LC1	4.93	-0.05	-0.26	0.00	-0.11	0.13
753	2.795	LC1	-0.41	0.06	-0.24	0.00	-0.10	-0.08
754	2.346	LC1	0.03	-0.06	-0.24	0.01	-0.09	0.05
755	3.300	LC1	-2.59	0.00	0.07	0.00	0.13	0.00
756	2.795	LC1	-0.41	-0.06	-0.24	0.00	-0.10	0.08
757	0.000	LC1	0.03	0.06	0.24	-0.01	-0.09	0.05
758	4.140	LC1	4.94	0.05	-0.26	0.00	-0.11	-0.13
759	1.863	LC1	2.74	0.04	-0.03	0.01	0.11	-0.04
760	1.407	LC1	-2.32	-0.03	0.00	0.02	0.10	0.00
761	0.000	LC1	-6.96	-0.07	0.07	0.02	-0.10	-0.12
762	2.795	LC1	-3.14	-0.08	-0.24	0.01	-0.12	0.13
763	2.346	LC1	2.21	0.05	-0.27	0.01	-0.15	-0.03
764	0.000	LC1	14.17	0.05	0.32	0.01	-0.24	0.04
765	1.863	LC1	5.35	0.04	0.00	0.02	0.15	-0.05
766	0.821	LC1	-4.55	0.00	-0.01	0.03	0.13	0.02
767	0.000	LC1	-13.56	-0.13	0.07	0.05	-0.09	-0.22
768	0.000	LC1	23.78	0.05	0.35	0.01	-0.30	0.00
769	2.795	LC1	-5.94	-0.11	-0.26	0.02	-0.17	0.17
770	0.000	LC1	4.44	0.04	0.30	0.01	-0.22	0.01
771	2.717	LC1	24.34	0.05	-0.08	0.01	0.13	-0.15
772	0.550	LC1	7.88	0.04	-0.32	0.03	-0.14	-0.01
773	0.000	LC1	-6.84	0.04	-0.01	0.04	0.16	-0.06
774	0.000	LC1	8.23	0.04	0.03	0.03	0.18	0.08
775	1.246	LC1	-6.84	0.04	-0.01	0.04	0.16	-0.06
776	0.000	LC1	-7.06	0.04	0.32	0.04	-0.11	0.02
777	0.485	LC1	24.50	0.05	-0.20	0.01	0.00	-0.19
778	0.550	LC1	8.23	0.04	0.03	0.03	0.18	0.08
779	0.000	LC1	-20.19	-0.20	0.06	0.07	-0.08	-0.34
780	2.795	LC1	-8.91	-0.14	-0.28	0.04	-0.21	0.23
781	2.346	LC1	6.87	0.03	-0.35	0.02	-0.30	0.02
782	0.000	LC1	33.20	0.04	0.38	0.01	-0.38	-0.04
783	2.329	LC1	10.55	0.02	0.00	0.05	0.23	-0.08
784	0.000	LC1	-9.23	0.10	0.07	0.05	0.17	0.15
785	0.000	LC1	-26.96	-0.26	0.05	0.09	-0.05	-0.43
786	2.795	LC1	-10.50	-0.13	-0.32	0.06	-0.31	0.21
787	2.346	LC1	8.10	0.02	-0.35	0.04	-0.35	0.04
788	0.000	LC1	44.53	0.03	0.40	0.03	-0.43	-0.09
789	2.329	LC1	14.90	0.06	-0.04	0.08	0.20	-0.11
790	0.000	LC1	-11.11	0.10	0.02	0.10	0.27	0.19
791	0.000	LC1	-29.06	-0.35	0.00	0.14	0.04	-0.60
792	2.651	LC1	-21.88	-0.36	-0.11	0.06	-0.03	0.64
793	2.172	LC1	16.56	-0.01	-0.66	-0.03	-0.68	0.14
794	0.000	LC1	39.48	-0.09	0.38	0.01	-0.46	-0.31
795	0.000	LC1	7.08	-0.22	0.40	0.01	-0.42	-0.41
796	2.172	LC1	-18.08	0.51	-0.48	-0.07	-0.51	-0.58
797	0.000	LC1	-43.81	-0.09	-0.18	0.01	0.34	-0.14
798	2.520	LC1	0.37	0.31	-0.54	0.05	-0.75	-0.51
799	2.011	LC1	-4.96	-0.50	-0.26	0.09	-0.43	0.48
800	0.000	LC1	6.53	0.07	0.28	0.00	-0.26	0.19
801	0.000	LC1	-5.26	0.39	-0.19	-0.01	0.49	0.68
802	0.000	LC1	2.59	0.02	-0.53	0.09	0.75	-0.09
803	0.000	LC1	-4.70	0.12	-0.01	-0.08	0.02	0.22
804	0.980	LC1	0.17	0.00	0.00	-0.03	0.08	-0.08
805	0.000	LC1	-0.21	-0.11	0.23	-0.03	-0.03	-0.18
806	4.140	LC1	7.62	-0.03	-0.27	-0.02	-0.15	0.12
807	0.000	LC1	0.19	0.05	0.20	-0.04	-0.11	0.07
808	1.916	LC1	-0.75	0.06	-0.11	-0.01	0.01	-0.08
809	3.300	LC1	-1.78	-0.02	0.07	-0.04	0.13	0.02
1036	0.000	LC1	-21.15	-4.79	-7.48	2.11	7.76	-5.56
1037	2.100	LC1	-33.29	2.25	4.58	-1.25	7.06	-7.42
1038	0.000	LC1	-38.26	2.99	2.78	-1.99	-2.79	-1.13
1039	0.588	LC1	-39.77	0.50	-2.30	-1.63	-1.12	2.60
1040	0.500	LC1	-40.68	0.17	-2.34	-1.63	-1.95	2.64
1041	0.500	LC1	-41.59	0.29	-1.91	-1.63	-3.01	2.52
1042	0.500	LC1	-42.50	0.48	-1.13	-1.63	-3.76	2.32
1043	0.500	LC1	-43.40	0.65	-0.25	-1.63	-4.09	2.04
1044	0.150	LC1	-43.68	0.69	0.02	-1.63	-4.11	1.93
1045	0.000	LC1	-44.31	0.75	0.51	-1.63	-4.01	1.68



Project: Structure: Dafni Konstantinidi - Sofrona (RSTAB)

Date: 11.08.2011

3.1 GOVERNING INTERNAL FORCES BY MEMBER

Member No	Loc x [m]	Load Case	Forces [kN]			Moments [kNm]		
			N	V _y	V _z	M _T	M _y	M _z
1046	0.000	LC1	-45.22	0.76	1.07	-1.63	-3.60	1.30
1047	0.000	LC1	-46.13	0.69	1.36	-1.63	-2.98	0.94
1048	0.000	LC1	-48.25	0.37	1.20	-1.63	-1.39	0.31
1049	1.165	LC1	-52.48	0.00	0.00	-1.63	0.00	0.00
1050	1.485	LC1	16.32	7.03	-0.72	1.07	-1.18	-6.75
1051	1.485	LC1	-2.24	0.74	0.30	0.33	0.10	-1.37
1052	0.000	LC1	-2.95	-0.65	0.56	0.53	-0.05	-0.36
1055	0.000	LC1	-76.31	8.99	7.48	2.14	-7.09	8.19
1056	1.170	LC1	-65.02	1.21	-2.78	-1.92	-4.97	2.23
1057	0.588	LC1	-68.08	1.86	-0.17	-1.60	-1.95	-4.22
1058	0.500	LC1	-68.99	-0.17	-1.86	-1.60	-5.15	2.04
1059	0.500	LC1	-69.90	-0.03	-1.33	-1.60	-5.94	2.09
1060	0.500	LC1	-70.81	0.19	-0.38	-1.60	-6.35	2.04
1061	0.175	LC1	-71.13	0.28	0.02	-1.60	-6.38	2.00
1062	0.000	LC1	-71.72	0.41	0.62	-1.60	-6.27	1.89
1063	0.000	LC1	-72.62	0.57	1.43	-1.60	-5.74	1.64
1064	0.000	LC1	-73.53	0.65	1.93	-1.60	-4.88	1.33
1065	0.000	LC1	-74.44	0.64	2.10	-1.60	-3.86	1.00
1066	0.000	LC1	-76.56	0.40	1.55	-1.60	-1.64	0.38
1067	1.165	LC1	-80.79	0.00	0.00	-1.60	0.00	0.00
1293	0.000	LC1	-21.16	4.79	-7.48	-2.11	7.77	5.56
1294	2.100	LC1	-33.32	-2.25	4.58	1.25	7.06	7.42
1295	0.000	LC1	-38.26	-2.99	2.79	1.99	-2.79	1.13
1296	0.588	LC1	-39.77	-2.34	0.17	1.63	-2.73	0.78
1297	0.500	LC1	-40.68	0.17	2.34	1.63	1.95	2.64
1298	0.500	LC1	-41.59	0.29	1.91	1.63	3.01	2.53
1299	0.500	LC1	-42.49	0.48	1.13	1.63	3.76	2.33
1300	0.500	LC1	-43.40	0.65	0.25	1.63	4.09	2.04
1301	0.150	LC1	-43.67	0.69	-0.02	1.63	4.10	1.94
1302	0.000	LC1	-44.31	0.75	-0.51	1.63	4.01	1.68
1303	0.000	LC1	-45.22	0.76	-1.07	1.63	3.60	1.30
1304	0.000	LC1	-46.13	0.69	-1.36	1.63	2.98	0.94
1305	0.000	LC1	-48.25	0.37	-1.20	1.63	1.39	0.31
1306	1.165	LC1	-52.48	0.00	0.00	1.63	0.00	0.00
1307	1.485	LC1	16.33	-7.04	-0.72	-1.07	-1.19	6.75
1308	1.485	LC1	-2.22	-0.74	0.31	-0.33	0.10	1.37
1309	0.000	LC1	-2.96	0.65	0.56	-0.53	-0.05	0.36
1312	0.000	LC1	-76.29	8.99	7.48	-2.14	-7.12	-8.19
1313	1.170	LC1	-65.01	-1.21	-2.79	1.92	-4.99	-2.23
1314	0.588	LC1	-68.08	-1.86	-0.17	1.60	-1.95	4.21
1315	0.500	LC1	-68.99	-0.17	1.86	1.60	5.15	2.04
1316	0.500	LC1	-69.90	-0.04	1.33	1.60	5.94	2.09
1317	0.500	LC1	-70.81	0.19	0.38	1.60	6.35	2.05
1318	0.175	LC1	-71.13	0.28	-0.02	1.60	6.38	2.00
1319	0.000	LC1	-71.71	0.41	-0.62	1.60	6.27	1.89
1320	0.000	LC1	-72.62	0.57	-1.43	1.60	5.74	1.64
1321	0.000	LC1	-73.53	0.65	-1.93	1.60	4.88	1.33
1322	0.000	LC1	-74.44	0.64	-2.10	1.60	3.86	1.00
1323	0.000	LC1	-76.56	0.40	-1.55	1.60	1.64	0.38
1324	1.165	LC1	-80.79	0.00	0.00	1.60	0.00	0.00

4.1 PARTS LIST BY MEMBER

Part No	Cross-section Description	Number Members	Length [m]	Tot Length [m]	Surf. Area [m ²]	Volume [m ³]	Unit Weight [kg/m]	Weight [kg]	Tot Weight [t]
1	5 - RO 244.5x12.5	35	2.50	87.50	67.21	0.80	71.52	178.80	6.258
2	5 - RO 244.5x12.5	4	0.65	2.58	1.98	0.02	71.52	46.13	0.185
3	5 - RO 244.5x12.5	4	1.85	7.42	5.70	0.07	71.52	132.67	0.531
4	5 - RO 244.5x12.5	2	3.47	6.94	5.33	0.06	71.52	248.10	0.496
5	5 - RO 244.5x12.5	4	1.26	5.04	3.87	0.05	71.52	90.14	0.361
6	5 - RO 244.5x12.5	2	2.26	4.52	3.47	0.04	71.52	161.69	0.323
7	5 - RO 244.5x12.5	2	0.26	0.52	0.40	0.00	71.52	18.45	0.037
8	5 - RO 244.5x12.5	2	1.90	3.79	2.91	0.03	71.52	135.53	0.271
9	5 - RO 244.5x12.5	2	0.60	1.21	0.93	0.01	71.52	43.27	0.087
10	1 - FL 150x15	33	0.14	4.55	1.50	0.01	17.66	2.44	0.080
11	1 - FL 150x15	33	0.17	5.64	1.86	0.01	17.66	3.02	0.100
12	1 - FL 150x15	1	0.31	0.31	0.10	0.00	17.66	5.46	0.005
13	2 - U 140	16	2.50	40.00	19.56	0.08	16.01	40.03	0.641
14	3 - HE-A 160	17	0.09	1.55	1.40	0.01	30.46	2.77	0.047
15	3 - HE-A 160	17	3.30	56.10	50.83	0.22	30.46	100.51	1.709
16	3 - HE-A 160	17	0.11	1.85	1.68	0.01	30.46	3.32	0.056
17	4 - RO 139.7x6.3	17	3.30	56.10	24.62	0.15	20.73	68.40	1.163
18	4 - RO 139.7x6.3	1	2.46	2.46	1.08	0.01	20.73	50.89	0.051
19	4 - RO 139.7x6.3	1	1.91	1.91	0.84	0.01	20.73	39.53	0.040
20	4 - RO 139.7x6.3	14	4.14	57.96	25.44	0.15	20.73	85.81	1.201
21	4 - RO 139.7x6.3	1	2.46	2.46	1.08	0.01	20.73	50.97	0.051
22	4 - RO 139.7x6.3	1	1.91	1.91	0.84	0.01	20.73	39.64	0.040
23	4 - RO 139.7x6.3	4	2.52	10.08	4.42	0.03	20.73	52.24	0.209
24	4 - RO 139.7x6.3	4	2.01	8.04	3.53	0.02	20.73	41.67	0.167
25	4 - RO 139.7x6.3	4	2.65	10.60	4.65	0.03	20.73	54.95	0.220
26	4 - RO 139.7x6.3	4	2.17	8.69	3.81	0.02	20.73	45.02	0.180
27	4 - RO 139.7x6.3	18	2.80	50.31	22.08	0.13	20.73	57.93	1.043
28	4 - RO 139.7x6.3	18	2.35	42.22	18.53	0.11	20.73	48.62	0.875
29	4 - RO 139.7x6.3	8	0.55	4.40	1.93	0.01	20.73	11.40	0.091
30	4 - RO 139.7x6.3	4	0.48	1.94	0.85	0.01	20.73	10.05	0.040



Project: Structure: **Dafni Konstantinidi -
Sofrona (RSTAB)**

Date: 11.08.2011

4.1 PARTS LIST BY MEMBER

Part No	Cross-section Description	Number Members	Length [m]	Tot Length [m]	Surf. Area [m ²]	Volume [m ³]	Unit Weight [kg/m]	Weight [kg]	Tot Weight [t]
31	4 - RO 139.7x6.3	2	1.70	3.39	1.49	0.01	20.73	35.13	0.070
32	4 - RO 139.7x6.3	2	1.25	2.49	1.09	0.01	20.73	25.82	0.052
33	4 - RO 139.7x6.3	2	3.17	6.34	2.78	0.02	20.73	65.70	0.131
34	4 - RO 139.7x6.3	1	2.45	2.45	1.08	0.01	20.73	50.78	0.051
35	4 - RO 139.7x6.3	1	1.92	1.92	0.84	0.01	20.73	39.83	0.040
36	4 - RO 139.7x6.3	1	2.45	2.45	1.07	0.01	20.73	50.69	0.051
37	4 - RO 139.7x6.3	1	1.92	1.92	0.84	0.01	20.73	39.72	0.040
38	6 - RO 139.7X10.0	4	0.37	1.48	0.00	0.00	0.00	0.00	0.000
39	7 - RO 406.4x16.0 (EN 10	2	0.79	1.58	2.02	0.03	154.05	121.85	0.244
40	7 - RO 406.4x16.0 (EN 10	2	2.10	4.20	5.36	0.08	154.05	323.50	0.647
41	7 - RO 406.4x16.0 (EN 10	2	0.12	0.24	0.31	0.00	154.05	18.49	0.037
42	7 - RO 406.4x16.0 (EN 10	4	0.59	2.35	3.00	0.05	154.05	90.58	0.362
43	8 - RO 711x10	28	0.50	14.00	31.27	0.31	172.88	86.44	2.420
44	8 - RO 711x10	4	1.17	4.68	10.45	0.10	172.88	202.27	0.809
45	8 - RO 711x10	8	1.16	9.32	20.82	0.21	172.88	201.40	1.611
46	5 - RO 244.5x12.5	4	1.49	5.94	4.56	0.05	71.52	106.22	0.425
47	5 - RO 244.5x12.5	2	1.05	2.10	1.61	0.02	71.52	75.13	0.150
48	7 - RO 406.4x16.0 (EN 10	2	0.54	1.08	1.38	0.02	154.05	83.34	0.167
49	7 - RO 406.4x16.0 (EN 10	2	1.17	2.34	2.99	0.05	154.05	180.23	0.360
Sum		364		558.89	375.42	3.09			24.223