

SQUARE SECTION TRUSS

Code	Length (cm)	weight (kg)
<u>T40QS/400</u>	<u>400</u>	<u>35,70</u>
<u>T40QS/350</u>	<u>350</u>	<u>31,15</u>
<u>T40QS/300</u>	<u>300</u>	<u>27,01</u>
<u>T40QS/250</u>	<u>250</u>	<u>22,60</u>
<u>T40QS/200</u>	<u>200</u>	<u>17,54</u>
<u>T40QS/150</u>	<u>150</u>	<u>14,22</u>
<u>T40QS/100</u>	<u>100</u>	<u>10,10</u>
<u>T40QS/50</u>	<u>50</u>	<u>4,75</u>

INERTIAL PROPERTIES

Area (A)	17.70 cm ²
Elastic modulus (E)	700.000 Kg / cm ²
Moment of inertia (I _{yy})	5086 cm ⁴
Elastic section modulus (W _y)	260 cm ³
Moment of inertia (I _{xx})	5086 cm ⁴
Elastic section modulus (W _x)	260 cm ³
Right weight	9.50 Kg/ml

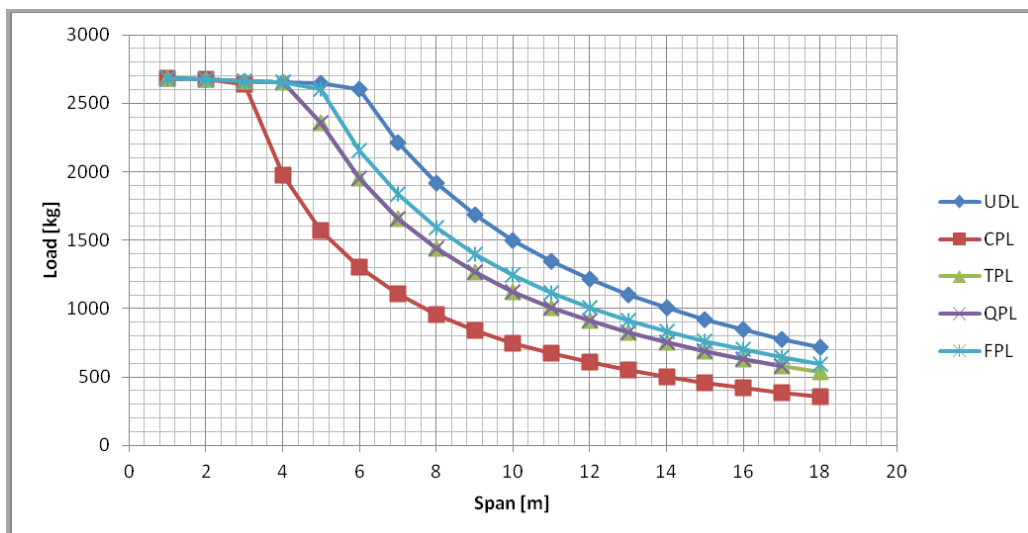
TECHNICAL DATA

Section:	Sqaure sides 39 cm
Material:	Aluminium EN AW 6082 T6
Ends :	Fast conical connection system Aluminium EN AW 6082 T6
Connection:	SSF04T
Welding:	TIG UNI EN 9606-2:2006
Main tubes :	Ø50x3 mm (EN AW 6082 T6)
Diagonals:	Ø20x2 mm (EN AW 6082 T6)

TABLE OF MAXIMUM ALLOWABLE LOADS

T40QS: maximum load - no limit on deflection															
UNIFORMLY DISTRIBUTED LOAD UDL		CENTER POINT LOAD CPL			SINGLE THIRD POINT LOAD TPL			SINGLE QUARTER POINT LOAD QPL			SINGLE FIFTH POINT LOAD FPL				
Span [m]	q _{am} kg/m	q _{am} *L Kg	def. 0	F _{am} kg/m	F _{am} Kg	def. 0	F _{am} Kg	2*F _{am} Kg	def. 0	F _{am} Kg	3*F _{am} Kg	def. 0	F _{am} Kg	4*F _{am} Kg	def. 0
1	2683	2683	0,1	2683	2683	0,2	1342	2683	0,1	894	2683	0,1	671	2683	0,1
2	1337	2674	1	2674	2674	1	1337	2674	1	891	2674	1	668	2674	1
3	888	2664	3	2643	2643	4	1332	2664	4	888	2664	3	666	2664	3
4	664	2655	6	1974	1974	7	1327	2655	9	885	2655	8	664	2655	8
5	529	2645	12	1570	1570	12	1178	2356	15	785	2356	14	652	2607	15
6	433	2600	21	1300	1300	17	975	1950	21	650	1950	20	539	2158	21
7	316	2211	29	1105	1105	23	829	1658	29	553	1658	27	459	1835	29
8	240	1917	37	958	958	30	719	1437	38	479	1437	36	398	1591	37
9	187	1686	47	843	843	38	632	1264	48	421	1264	45	350	1399	47
10	150	1499	58	750	750	47	562	1124	60	375	1124	56	311	1244	59
11	122	1345	71	672	672	57	504	1009	72	336	1009	67	279	1116	71
12	101	1214	84	607	607	69	455	911	86	304	911	80	252	1008	84
13	85	1103	99	551	551	81	414	827	100	276	827	94	229	915	99
14	72	1006	114	503	503	94	377	754	117	251	754	109	209	835	115
15	61	920	131	460	460	108	345	690	134	230	690	125	191	764	132
16	53	844	149	422	422	124	317	633	152	211	633	143	175	701	150
17	46	776	168	388	388	141	291	582	172	194	582	162	161	644	169
18	40	715	189	357	357	158	268	536	192	179	536	181	148	593	190

The calculation at the base of the table has been prepared in accordance with the UNI EN 1999-1-1. The allowable loads are net of the weight of the truss. The deflection includes the weight of the truss. The constraints must be considered as an ideal condition; It will be the customer's responsibility analyze the structure in the light of the actual conditions of load, constraint and use.



SQUARE TRUSS

