
SQUARE SECTION TRUSS

Code	Length (cm)	weight (kg)
T30Q/400	400	18,55
T30Q/350	350	16,43
T30Q/300	300	14,24
T30Q/250	250	12,12
T30Q/200	200	9,99
T30Q/150	150	7,87
T30Q/100	100	5,75
T30Q/50	50	3,32
T30Q/25	25	2,26
T30Q/10	10	1,50

INERTIAL PROPERTIES

Area (A)	8.84 cm ²
Elastic modulus (E)	700.000 Kg / cm ²
Moment of inertia (I _{yy})	1560 cm ⁴
Elastic section modulus (W _y)	108 cm ³
Moment of inertia (I _{xx})	1560 cm ⁴
Elastic section modulus (W _x)	108 cm ³
Right weight	4.50 Kg/ml

TECHNICAL DATA

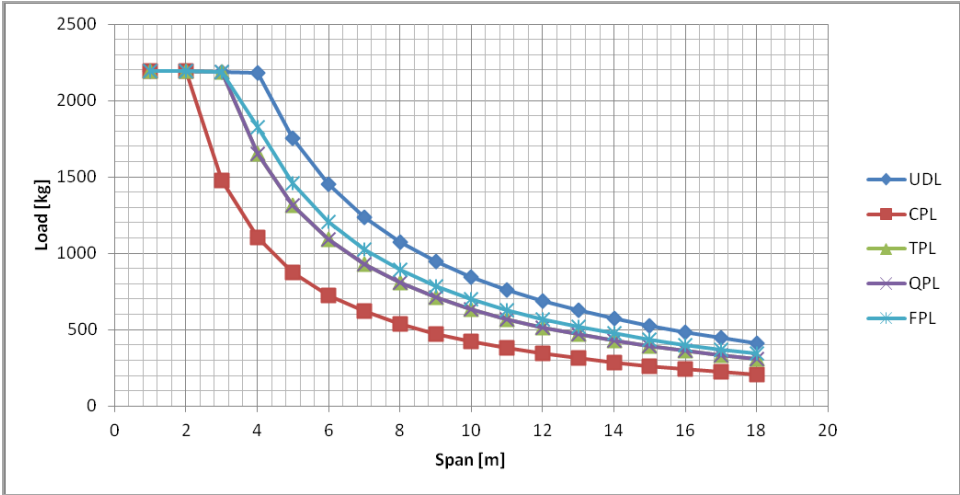
Section:	Square sides 29 cm
Material:	Aluminium EN AW 6082 T6
Ends :	Fast conical connection system Aluminium EN AW 6082 T6
Connection:	SSF04T
Welding:	TIG UNI EN 9606-2:2006
Main tubes :	Ø50x2 mm (EN AW 6082 T6)
Diagonals:	Ø16x2 mm (EN AW 6082 T6)

TABLE OF MAXIMUM ALLOWABLE LOADS

T30Q: maximum load - no limit on deflection

Span [m]	UNIFORMLY DISTRIBUTED LOAD UDL			CENTER POINT LOAD CPL			SINGLE THIRD POINT LOAD TPL			SINGLE QUARTER POINT LOAD QPL			SINGLE FIFTHS POINT LOAD FPL		
	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	2197	2197	0,3	2197	2197	0,4	1098	2197	0,4	732	2197	0,3	549	2197	0,3
2	1096	2192	2	2192	2192	3	1096	2192	3	731	2192	3	548	2192	3
3	729	2188	7	1474	1474	8	1094	2188	10	729	2188	9	547	2188	9
4	546	2183	17	1102	1102	14	826	1652	17	551	1652	16	457	1829	17
5	351	1754	26	877	877	21	658	1316	27	439	1316	25	364	1456	27
6	242	1454	38	727	727	31	545	1090	39	363	1090	36	302	1207	38
7	177	1238	52	619	619	42	464	928	53	309	928	49	257	1027	52
8	134	1075	68	537	537	55	403	806	69	269	806	65	223	892	68
9	105	947	86	473	473	69	355	710	88	237	710	82	196	786	86
10	84	843	106	422	422	86	316	633	108	211	633	101	175	700	106
11	69	758	128	379	379	104	284	569	131	190	569	122	157	629	129
12	57	686	153	343	343	124	257	515	156	172	515	145	142	570	153
13	48	625	179	312	312	146	234	469	183	156	469	171	130	519	180
14	41	572	208	286	286	170	214	429	212	143	429	198	119	474	208
15	35	525	238	262	262	196	197	394	243	131	394	228	109	436	239
16	30	483	271	242	242	224	181	362	276	121	362	259	100	401	272
17	26	446	306	223	223	254	167	335	312	112	335	293	93	370	307
18	23	413	343	206	206	286	155	309	350	103	309	329	86	342	344

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

