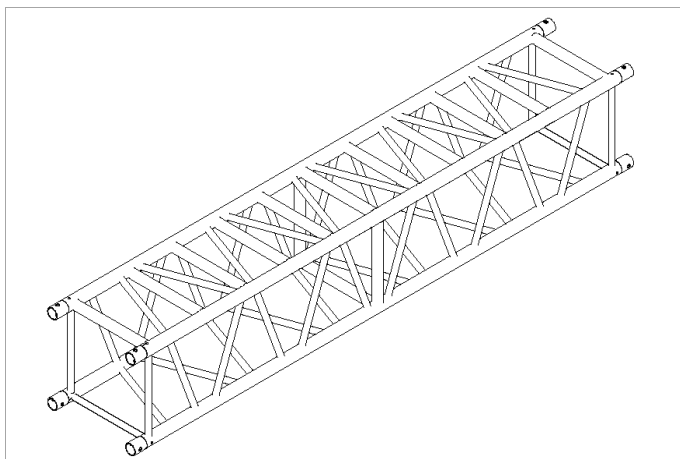
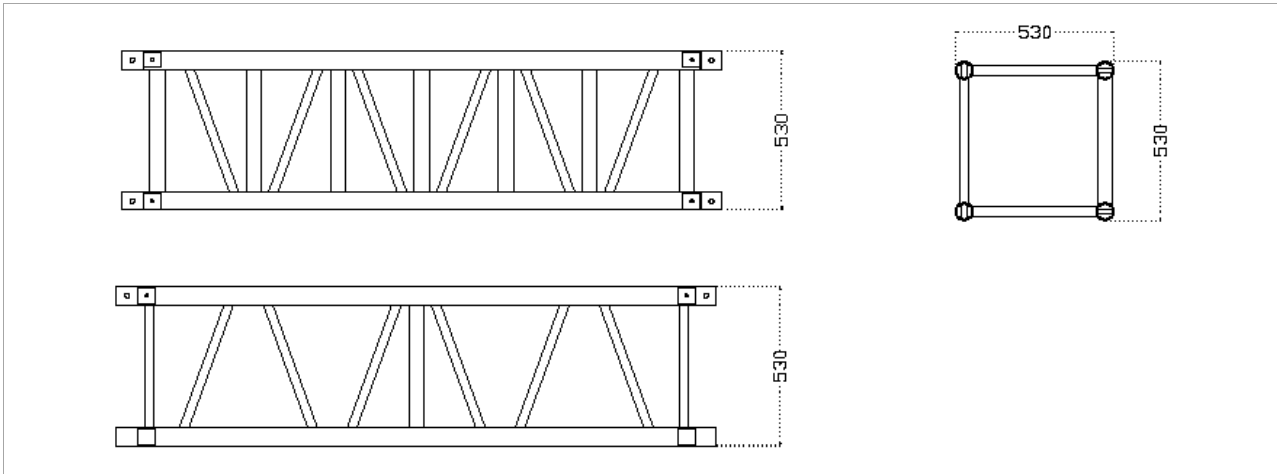


Square section high load aluminium truss twist resistant version with 53 cm long sides
 Traliccio sezione **quadrata antitorsivo** lato 53 cm in alluminio



SQUARE SECTION TRUSS		
Code	Length (cm)	weight (kg)
T52QS/300	300	56.00
T52QS/250	250	47.50
T52QS/200	200	40.00
T52QS/150	150	29.50
T52QS/100	100	21.50
T52QS/50	50	11.00

INERTIAL PROPERTIES	
Area (A)	34.40 cm ²
Elastic modulus (E)	700.000 Kg / cm ²
Moment of inertia (I _{yy})	18998 cm ⁴
Elastic section modulus (W _y)	717 cm ³
Moment of inertia (I _{xx})	18998 cm ⁴
Elastic section modulus (W _x)	717 cm ³
Right weight	19.00 Kg/ml

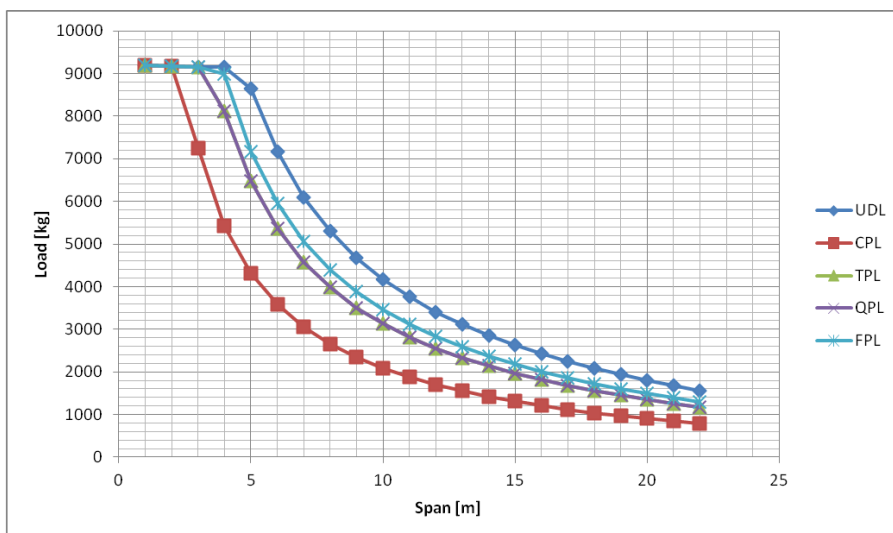
TECHNICAL DATA	
Section:	Square sides 53 cm
Material:	Aluminium EN AW 6082 T6
Ends :	Fast conical connection system Aluminium EN AW 6082 T6
Connection:	KT52Q
Welding:	TIG UNI EN 9606-2:2006
Main tubes :	Ø60x5 mm (EN AW 6082 T6)
Diagonals:	Ø50x4 mm (EN AW 6082 T6)
Diagonals:	Ø30x3.5 mm (EN AW 6082 T6)

SQUARE TRUSS

TABLE OF MAXIMUM ALLOWABLE LOADS

T52QS: 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. 19	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	9200	9200	0,1	9200	9200	0,1	4600	9200	0,1	3067	9200	0,1	2300	9200	0,1
2	4591	9181	1	9181	9181	1	4591	9181	1	3060	9181	1	2295	9181	1
3	3054	9162	2	7248	7248	3	4581	9162	3	3054	9162	3	2291	9162	3
4	2286	9143	6	5420	5420	5	4065	8129	7	2710	8129	7	2249	8996	7
5	1727	8637	11	4319	4319	9	3239	6478	11	2159	6478	10	1792	7169	11
6	1194	7163	15	3581	3581	12	2686	5372	16	1791	5372	15	1486	5945	15
7	872	6104	21	3052	3052	17	2289	4578	21	1526	4578	20	1267	5066	21
8	663	5306	27	2653	2653	22	1990	3979	28	1326	3979	26	1101	4404	27
9	520	4680	35	2340	2340	28	1755	3510	35	1170	3510	33	971	3885	35
10	418	4176	43	2088	2088	35	1566	3132	44	1044	3132	41	867	3466	43
11	342	3760	52	1880	1880	42	1410	2820	53	940	2820	49	780	3121	52
12	284	3410	62	1705	1705	50	1279	2558	63	853	2558	59	708	2831	62
13	239	3111	72	1556	1556	59	1167	2334	74	778	2334	69	646	2583	73
14	204	2853	84	1426	1426	68	1070	2139	85	713	2139	80	592	2368	84
15	175	2626	96	1313	1313	79	985	1969	98	656	1969	92	545	2179	97
16	152	2425	109	1212	1212	90	909	1819	112	606	1819	105	503	2013	110
17	132	2245	124	1123	1123	102	842	1684	126	561	1684	118	466	1864	124
18	116	2084	139	1042	1042	115	781	1563	141	521	1563	133	432	1729	139
19	102	1937	154	968	968	128	726	1453	157	484	1453	148	402	1608	155
20	90	1803	171	902	902	143	676	1352	174	451	1352	164	374	1496	172
21	80	1680	189	840	840	158	630	1260	192	420	1260	181	349	1394	189
22	71	1567	207	783	783	174	587	1175	211	392	1175	199	325	1300	208

The 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

