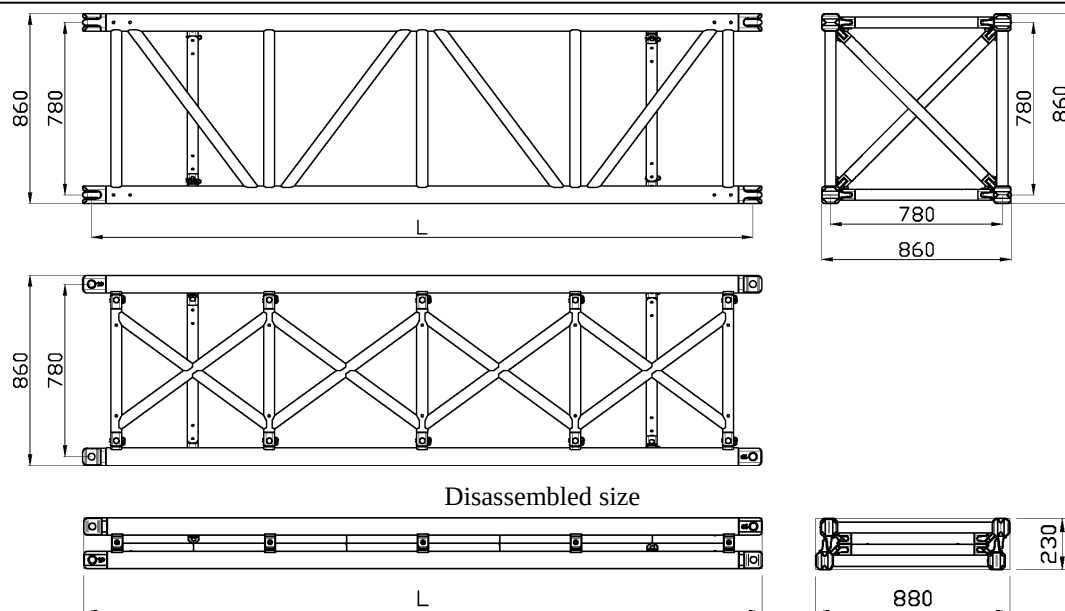
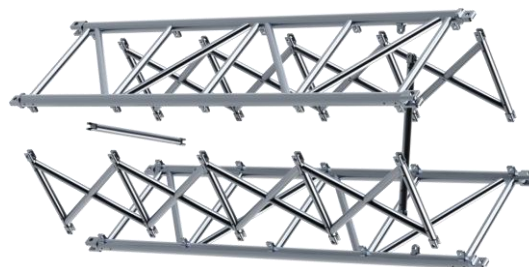
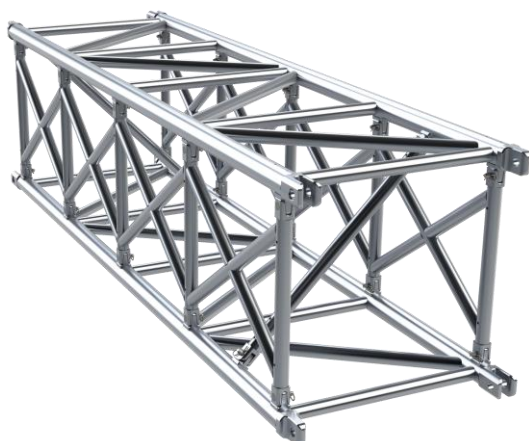


Dismountable aluminum truss with square section, 86cm length side
Traliccio scomponibile in alluminio a sezione quadrata, lato 86cm



SQUARE SECTION TRUSS

Code	Length L [cm]	Weight [kg]	Disas. Vol. [m³]
S85A/300	300	131,5	0,63
S85A/120	120	73,5	0,26



INERTIAL PROPERTIES

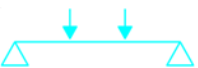
Area (A)	55,79 cm²
Elastic modulus (E)	700000 kg / cm²
Moment of inertia (Iyy)	85248 cm⁴
Moment of inertia (Ixx)	85248 cm⁴
Elastic section modulus (Wy)	1982 cm³
Elastic section modulus (Wx)	1982 cm³
Self-weight (P)	45,0 kg/m

TECHNICAL DATA

Section:	Square 86 cm long sides
Material:	Aluminum EN AW-6082 T6
Ends :	Aluminum fork EN AW-7075 T6
Connection:	K85
Welding:	TIG UNI EN 9606-2:2006
Main tubes :	Ø80x6 mm (EN AW-6082 T6)
Diagonals:	Ø50x4 mm (EN AW-6082 T6)

HIGH LOAD

Dismountable aluminum truss with square section, 86cm length side
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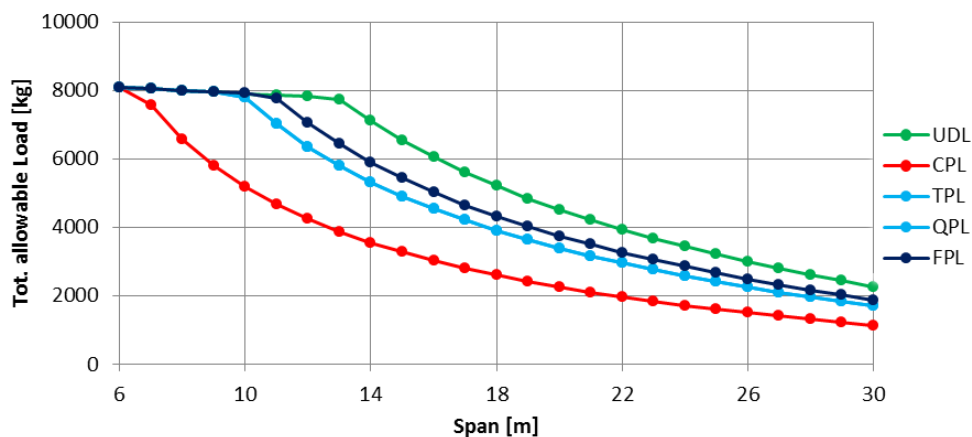
S85A: maximum allowable loads															
															
	UNIFORMLY DISTRIBUTED LOAD UDL			CENTER POINT LOAD CPL			SINGLE THIRD POINT LOAD TPL			SINGLE QUARTER POINT LOAD QPL			SINGLE FIFTHS POINT LOAD FPL		
Span [m]	q _{am} [kg/m]	q _{am} *L [kg]	def. [mm]	F _{am} [kg]	F _{am} [kg]	def. [mm]	F _{am} [kg]	2*F _{am} [kg]	def. [mm]	F _{am} [kg]	3*F _{am} [kg]	def. [mm]	F _{am} [kg]	4*F _{am} [kg]	def. [mm]
6	1349	8092	4	8092	8092	6	4046	8092	5	2697	8092	5	2023	8092	5
7	1149	8045	6	7575	7575	9	4023	8046	8	2682	8046	8	2012	8046	7
8	1000	7998	9	6586	6586	12	4001	8002	12	2667	8001	12	2000	8001	11
9	883	7951	13	5812	5812	15	3979	7957	18	2652	7956	16	1989	7956	16
10	791	7906	18	5188	5188	19	3891	7782	24	2594	7782	22	1978	7910	21
11	715	7866	24	4674	4674	23	3505	7011	29	2337	7011	27	1940	7758	28
12	652	7820	31	4241	4241	27	3181	6362	34	2121	6362	32	1760	7040	33
13	596	7744	39	3872	3872	32	2904	5808	40	1936	5808	37	1607	6427	39
14	507	7104	45	3552	3552	37	2664	5328	46	1776	5328	43	1474	5896	46
15	436	6544	52	3272	3272	43	2454	4908	53	1636	4908	50	1358	5431	52
16	378	6048	59	3024	3024	49	2268	4536	60	1512	4536	57	1255	5020	60
17	330	5605	67	2803	2803	55	2102	4204	68	1401	4204	64	1163	4652	67
18	289	5206	75	2603	2603	62	1952	3905	77	1302	3905	72	1080	4321	75
19	255	4845	84	2423	2423	69	1817	3634	85	1211	3634	80	1005	4021	84
20	226	4515	93	2258	2258	77	1693	3387	94	1129	3387	89	937	3748	93
21	201	4213	102	2106	2106	85	1580	3160	104	1053	3160	98	874	3497	103
22	179	3934	112	1967	1967	94	1475	2950	114	983	2950	108	816	3265	113
23	160	3675	123	1837	1837	103	1378	2756	125	919	2756	118	763	3050	123
24	143	3434	133	1717	1717	113	1288	2575	136	858	2575	128	713	2850	134
25	128	3209	145	1604	1604	123	1203	2406	147	802	2406	139	666	2663	145
26	115	2997	157	1499	1499	134	1124	2248	159	749	2248	151	622	2488	157
27	104	2798	169	1399	1399	145	1049	2099	172	700	2099	163	581	2322	169
28	93	2610	182	1305	1305	157	979	1958	184	653	1958	176	542	2166	182
29	84	2432	195	1216	1216	169	912	1824	198	608	1824	189	505	2019	195
30	75	2263	209	1131	1131	182	849	1697	211	566	1697	202	470	1878	209

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 .

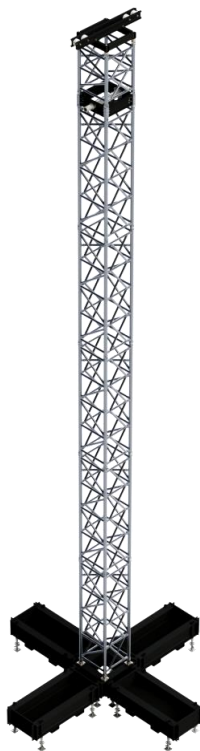
The deflection includes the weight of the truss.

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.



Dismountable aluminum truss with square section, 86cm length side
Traliccio scomponibile in alluminio a sezione quadrata, lato 86cm

S85A - AXIAL ALLOWABLE LOAD



H [m]	N _{am} [kg]
9	19200
10	18200
11	17100
12	16000
13	15000
14	13900
15	12900
16	12000
17	11100
18	10200
19	9500
20	8700

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 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.