



#### TRUSS STANDARD LENGTH

Truss Code	Length L [cm]	Truss Weight [kg]	Dolly Code	Dolly Weight [kg]
<b>S60PR/300</b>	300	44,8	<b>D-S60PR/300</b>	41,5
<b>S60PR/240</b>	240	38,2	<b>D-S60PR/240</b>	37,5
<b>S60PR/160</b>	160	30,0	<b>D-S60PR/160</b>	34,0

#### INERTIAL PROPERTIES

Area ( A )	23,12 cm <sup>2</sup>
Elastic modulus (E)	700000 kg / cm <sup>2</sup>
Moment of inertia (I <sub>y</sub> )	5617 cm <sup>4</sup>
Elastic section modulus (W <sub>y</sub> )	312 cm <sup>3</sup>
Truss Self-weight (P)	16,0 kg/m

#### TECHNICAL DATA

Section:	Rectangular 36 x 60 cm
Material:	Aluminum EN AW-6082 T6
Ends :	Aluminum fork EN AW-6082 T6 (90° rotatable)
Connection:	K52 (Cylindrical Pin + R-clip)
Welding:	TIG UNI EN 9606-2:2006
Main tubes :	Ø50x4 mm (EN AW-6082 T6)
Diagonals:	Ø30x3,5 mm (EN AW-6082 T6)

HIGH LOAD

**S60PR: maximum allowable loads**

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 <sub>am</sub> [kg/m]	q <sub>am</sub> *L [kg]	def. [mm]	F <sub>am</sub> [kg]	F <sub>am</sub> [kg]	def. [mm]	F <sub>am</sub> [kg]	2*F <sub>am</sub> [kg]	def. [mm]	F <sub>am</sub> [kg]	3*F <sub>am</sub> [kg]	def. [mm]	F <sub>am</sub> [kg]	4*F <sub>am</sub> [kg]	def. [mm]
3	580	1741	2	418	418	1	418	836	1	418	1254	1	418	1672	2
4	580	2322	5	418	418	2	418	836	3	418	1254	3	418	1672	4
5	543	2717	11	418	418	3	418	836	5	418	1254	7	418	1672	9
6	395	2369	17	418	418	5	418	836	9	418	1254	12	418	1672	15
7	296	2074	24	418	418	9	418	836	14	418	1254	19	418	1672	24
8	229	1836	33	418	418	13	418	836	21	418	1254	29	394	1577	34
9	182	1638	42	418	418	19	418	836	30	418	1254	41	351	1403	44
10	147	1474	53	418	418	27	418	836	42	384	1152	53	315	1258	55
11	121	1331	65	418	418	37	418	836	57	346	1037	65	283	1134	67
12	100	1204	79	418	418	49	418	836	75	312	937	78	256	1025	81
13	84	1092	93	418	418	63	418	836	96	283	850	92	233	930	95
14	71	997	109	418	418	80	386	772	114	257	771	107	211	846	112
15	61	908	126	418	418	100	351	702	132	234	702	124	192	770	129
16	52	828	145	418	418	124	319	638	150	213	638	142	175	700	147
17	44	752	164	397	397	146	290	580	170	193	580	162	159	638	167
18	38	686	186	361	361	165	264	527	192	176	527	182	145	578	188
19	33	620	207	327	327	185	239	478	214	159	478	204	131	525	210
20	28	560	230	295	295	208	216	433	238	144	433	227	119	475	234

The loads described above are related to the load applied on the central tube.  
 The calculation at the base of the table has been prepared in accordance with the UNI EN 1999-1-1.  
 When calculating the allowable loads shown in the table, it is assumed that the load is suspended in the middle part of the truss and the truss is supported from the top chord at each end.  
 The self-weight of the truss has been taken into account when calculating the values in the table (the weight of the dolly is not considered).  
 The values shown in the table are the allowable static loads that can be applied to the truss.  
 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.



**HIGH LOAD**