

TT Rectangular Truss

The TT Rectangular truss is the perfect designed Pre Rig Truss for spans up to 44m (144 feet). The TT Truss lends itself to use as bending resistance spans at a free span of 44m (144 feet) with extreme load bearing capacity. Due to its special shape and dimensions the TT Truss exhibits a great rigidity and can thus be used for long spans with high loadings and is the main rig truss for the big roof systems like Pitch Roof (PR10), Arc Roof (AR30) and Saddle Roof (SR50).

The TT Truss is despite its dimensions and self weight a very easy truss system to handle. The TT Truss can be equipped optional with blue castor wheel sets.

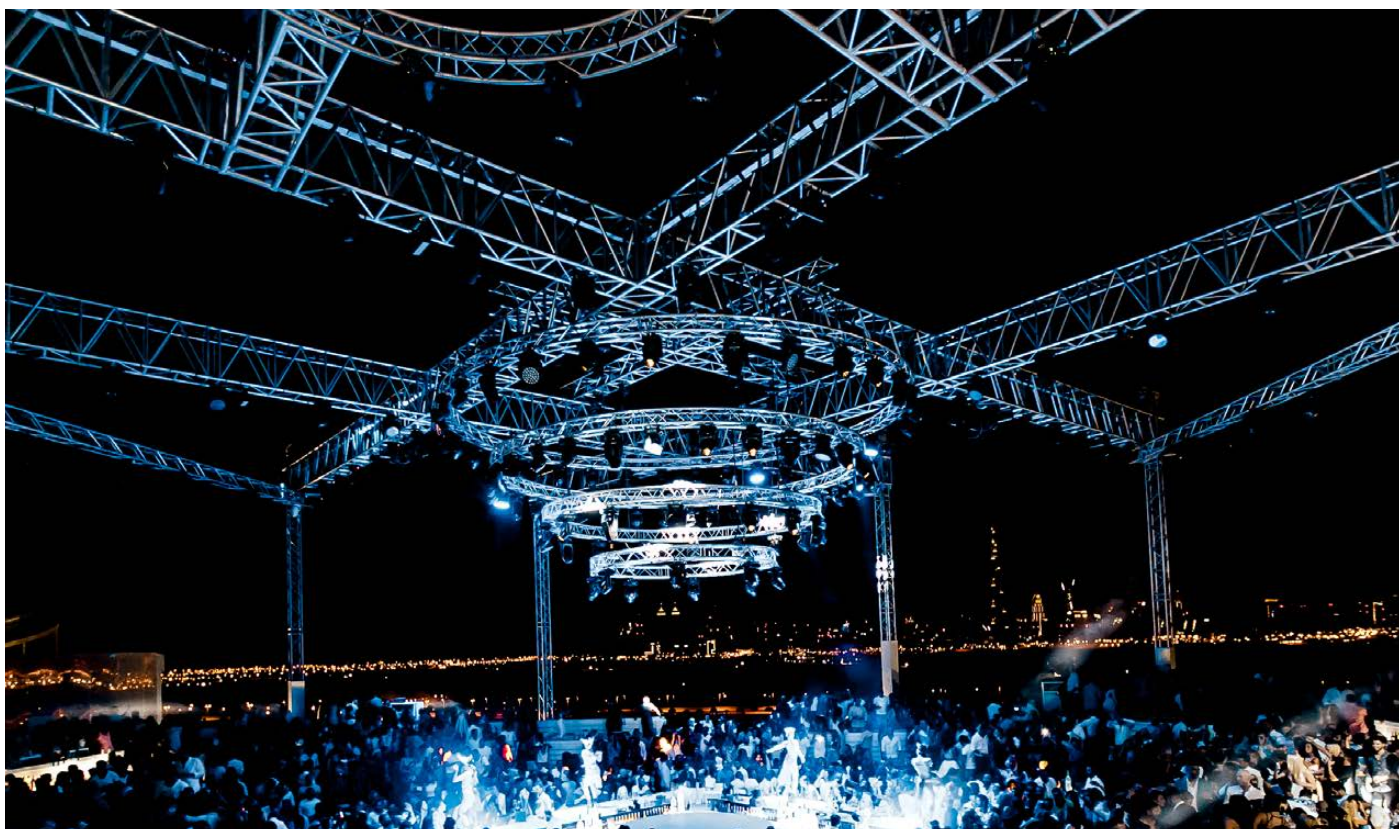
Made with the fast connection system and approved according the DIN EN 1999-1-1 & 1999-1-1/A2 (Eurocode 9).

Facts

- Tolerance free conical connector system
- High stability aluminium alloy
- Excellent load bearing capacity
- Low dead weight
- High wear resistance
- TÜV approved
- 5 mm wall thickness of 60 mm main tube

Specifications TT Rectangular

	Metric	Imperial
Height:	1010 mm	39.76 in
Width:	580 mm	22.83 in
Main Tube:	60 x 5 mm	2.36 x 0.20 in
Braces:	50 x 3 mm	1.97 x 0.12 in
Braces:	30 x 3 mm	1.18 x 0.12 in
Weight:	~25 kg/m	~16,8 lbs/ft
Pin Position:	Horizontal and vertical	
Material:	EN AW-6082 T6	
Connection:	CS3 - CON	



TT Loading charts

Metric loading charts

Span*	UDL		CPL		1/3 Point Load		1/4 Point Load		1/5 Point Load	
	kg/m	mm**	kg	mm	kg (2x)	mm	kg (3x)	mm	kg (4x)	mm
8	1571	15	6512	13	4884	16	3256	15	2713	16
16	390	64	3118	52	2339	65	1559	61	1299	64
24	161	144	1926	119	1445	147	963	138	803	145
32	80	259	1284	220	963	263	642	249	535	261
38	50	369	955	320	716	374	477	357	398	371
44	32	500	696	445	522	506	348	486	290	503

* in meters / ** mm is the deflection of the truss at the given load

Imperial loading charts

Span*	UDL		CPL		1/3 Point Load		1/4 Point Load		1/5 Point Load	
	lbs/ft	in**	lbs/ft	in	lbs/ft (2x)	in	lbs/ft (3x)	in	lbs/ft (4x)	in
26,25	1055,7	0.59	14326,4	0.51	10744,8	35.2	7163,2	0.59	5968,6	0.63
52,50	262,1	2.52	6859,6	2.05	5145,8	143.0	3429,8	2.40	2857,8	2.52
78,74	108,2	5.67	4237,2	4.69	3179,0	323.4	2118,6	5.43	1766,6	5.71
104,99	53,8	10.20	2824,8	8.66	2118,6	578.6	1412,4	9.80	1177,0	10.28
124,68	33,6	14.53	2101,0	12.60	1575,2	822.8	1049,4	14.06	875,6	14.61
144,36	21,5	19.69	1531,2	17.52	1148,4	1113.2	765,6	19.13	638,0	19.80

* in feet / ** in is the deflection of the truss at the given load

Loading figures are based on Eurocode 9 standards and calculated according DIN EN 1991-1-1 (& /A2); to comply to ANSI, the loading data needs to be multiplied by 0,85.