

ST Square Truss

The ST System meets the demand for a truss with a high load bearing capacity that lends itself to safe outdoor use, even at a free span of up to 24m (79 feet) at high load.

Due to the square profile geometry and the complete diagonal bracing, the ST Truss exhibits the same rigidity in vertical and horizontal directions and can thus be used as support for huge spans in Rock and Roll Productions as well as Pre Rig and is the basic main truss in the majority of the Eurotruss Roof Systems.

The 4mm wall thickness reduces transportation damage and guarantees extreme durability.

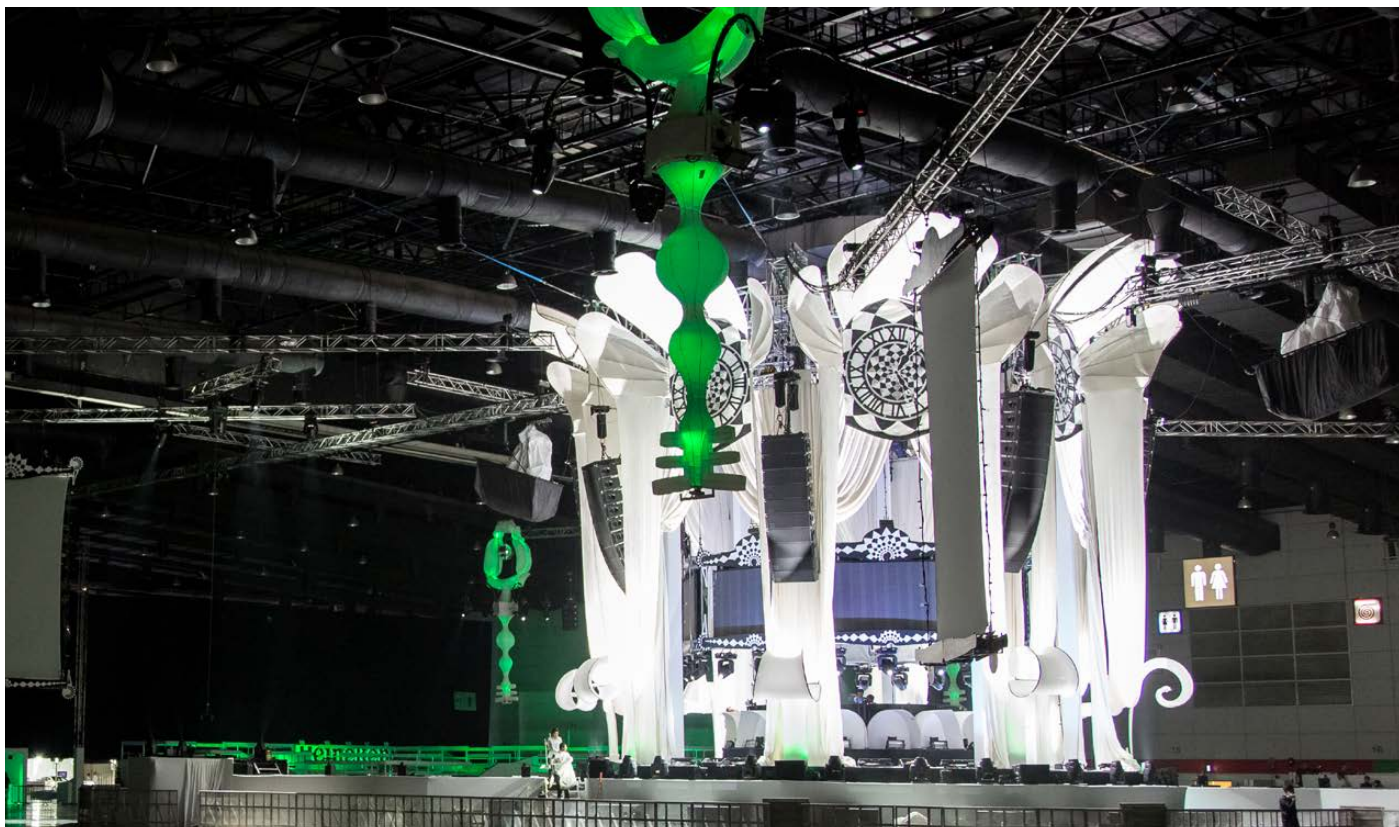
Made with the fast connection system and approved according the DIN EN 1999-1-1 & 1999-1-1/A2 (Eurocode 9).

Facts

- Tolerance free connection with conical connector
- High Stability aluminium alloy
- Excellent load-bearing capacity combined with low dead weight
- 4mm wall thickness of 50mm main tube
- The main grid truss in Roof Systems combined with TD35 Tower
- TÜV approved
- High wear resistance

Specifications ST Rectangular

	Metric	Imperial
Height:	510 mm	20.08 in
Width:	510 mm	20.08 in
Main Tube:	50 x 4 mm	1.97 x 0.16 in
Braces:	30 x 3 mm	1.18 x 0.12 in
Weight:	~13,5 kg/m	~9,1 lbs/ft
Pin Position:	Horizontal	
Material:	EN AW-6082 T6	
Connection:	CS3-CON	



ST 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
6	848	17	2396	13	1983	18	1377	18	1147	19
10	323	52	1613	42	1101	49	807	50	672	53
14	159	103	1110	84	833	105	555	98	463	103
18	91	171	817	141	615	174	410	163	342	172
22	57	256	626	215	469	261	313	246	261	258
24	46	306	550	259	413	311	275	294	229	308

* 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
19,69	569,8	0.67	5271,2	0.51	4362,6	39.6	3029,4	0.71	2523,4	0.75
32,81	217,0	2.05	3548,6	1.65	2422,2	107.8	1775,4	1.97	1478,4	2.09
45,93	106,8	4.06	2442,0	3.31	1832,6	231.0	1221,0	3.86	1018,6	4.06
59,06	61,1	6.73	1797,4	5.55	1353,0	382.8	902,0	6.42	752,4	6.77
72,18	38,3	10.08	1377,2	8.46	1031,8	574.2	688,6	9.69	574,2	10.16
78,74	30,9	12.05	1210,0	10.20	908,6	684.2	605,0	11.57	503,8	12.13

* 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.