



HD44 Square Truss

HD44 with excellent load capacity on free spans of 18m (59 feet) or to be used as tower elements with an extra welded climbing brace on one side (TD44). HD44 is using the 3mm wall thickness in the maintube which assures durability and extra strength. Designed for high frequency usage or installations, which demands higher loading.

Ideal trussing system for rental, touring and exhibition companies.

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

Note: The FD44 with 2mm wall thickness, is discontinued as standard stock product but still available on request.

Facts

- TÜV approved
- Also available in any non-standard length and shape
- Tolerance free conical connector system
- Wall thickness of 3 mm for 50 mm main tubes
- HD44 is also available as a Tower Truss (TD44)

Specifications HD44

Height:	Metric 400 mm	Metric 15.75 in
Width:	400 mm	15.75 in
Main Tube:	50 x 3 mm	1.97 x 0.12 in
Braces:	25 x 2 mm	0.98 x 0.08 in
Weight:	~9,5 kg/m	~6,4 lbs/ft
Pin Position:	Diagonal	
Material:	EN AW-6082 T6	
Connection:	CS1 - CON	



HD44 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	459	20	1625	19	1071	21	821	23	684	24
9	239	54	1075	44	807	55	538	51	448	55
12	131	96	787	78	590	98	394	92	328	97
14	94	131	661	107	496	134	330	125	275	132
16	71	172	564	141	423	176	282	164	235	173
18	54	218	488	181	366	223	244	209	203	220

* 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	308,4	0.79	3575,0	0.75	2356,2	0.83	1806,2	0.91	1504,8	0.94
29,53	160,6	2.13	2365,0	1.73	1775,4	2.17	1183,6	2.01	985,6	2.17
39,37	88,0	3.78	1731,4	3.07	1298,0	3.86	866,8	3.62	721,6	3.82
45,93	63,2	5.16	1454,2	4.21	1091,2	5.28	726,0	4.92	605,0	5.20
52,50	47,7	6.77	1240,8	5.55	930,6	6.93	620,4	6.46	517,0	6.81
59,06	36,3	8.58	1073,6	7.13	805,2	8.78	536,8	8.23	446,6	8.66

* 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.