



## HD34 Square Truss

HD34 with excellent load capacity on free spans of 18m (59 feet) or to be used as tower elements, HD34 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).

### Facts

- TÜV approved
- Also available in any non-standard length and shape
- Tolerance free conical connector system
- Increased loading compared to FD34 (up to 50%)
- HD34 is also available as a Tower Truss

### Specifications HD34

	<b>Metric</b>	<b>Imperial</b>
Height:	290 mm	11.42 in
Width:	290 mm	11.42 in
Main Tube:	50 x 3 mm	1.97 x 0.12 in
Braces:	20 x 2 mm	0.79 x 0.08 in
Weight:	~7,5 kg/m	5 lbs/ft
Pin Position:	Diagonal	
Material:	EN AW-6082 T6	
Connection:	CS1 - CON	



# HD34 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	373	35	1120	28	840	35	560	33	467	35
9	162	78	730	63	547	80	365	74	304	79
12	88	139	530	114	397	142	265	133	221	140
14	63	190	441	156	331	194	221	182	184	192
16	47	249	373	206	280	254	187	239	156	251
18	36	317	319	265	239	323	160	304	133	319

\* 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	250,6	1.38	2464,0	1.10	1848,0	1.38	1232,0	1.30	1027,4	1.38
29,53	108,9	3.07	1606,0	2.48	1203,4	3.15	803,0	2.91	668,8	3.11
39,37	59,1	5.47	1166,0	4.49	873,4	5.59	583,0	5.24	486,2	5.51
45,93	42,3	7.48	970,2	6.14	728,2	7.64	486,2	7.17	404,8	7.56
52,50	31,6	9.80	820,6	8.11	616,0	10.00	411,4	9.41	343,2	9.88
59,06	24,2	12.48	701,8	10.43	525,8	12.72	352,0	11.97	292,6	12.56

\* 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.