



## FD33 Triangle Truss

FD33, the triangular truss with equilateral profile geometry for larger loads.

The FD33 straight elements lend themselves perfectly for making bending stress resistant spans up to 12 meters (39 feet). Designed for high frequency usage or installations, which demands higher loading.

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

### Specifications FD33

	<b>Metric</b>	<b>Imperial</b>
Height:	258 mm	10.16 in
Width:	290 mm	11.42 in
Main Tube:	50 x 2 mm	1.97 x 0.08 in
Braces:	20 x 2 mm	0.79 x 0.08 in
Weight:	~4,5 kg/m	~3 lbs/ft
Pin Position:	Diagonal	
Material:	EN AW-6082 T6	
Connection:	CS1 - CON	



# FD33 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
3	444	7	667	6	500	8	333	7	278	8
5	157	21	393	17	295	21	197	20	164	21
8	59	53	236	43	177	54	118	51	98	53
10	36	83	182	68	136	85	91	80	76	84
11	29	01	161	83	121	103	81	97	67	102
12	24	120	144	100	108	123	72	115	60	121

\* 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
9,84	298,4	0.28	1467,4	0.24	1100,0	0.31	732,6	0.28	611,6	0.31
16,41	105,5	0.83	864,6	0.67	649,0	0.83	433,4	0.79	360,8	0.83
26,25	39,6	2.09	519,2	1.69	389,4	2.13	259,6	2.01	215,6	2.09
32,81	24,2	3.27	400,4	2.68	299,2	3.35	200,2	3.15	167,2	3.31
36,09	19,5	0.04	354,2	3.27	266,2	4.06	178,2	3.82	147,4	4.02
39,37	16,1	4.72	316,8	3.94	237,6	4.84	158,4	4.53	132,0	4.76

\* 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.