



## FD32 Ladder Truss

The FD32 Ladder truss, a truss for vertical and horizontal rigs, this truss made out of two main tubes combined with the eurotruss bracing pattern is already a great start. Together with the Tolerance free conical connector system the straight elements lend themselves perfectly to use a span exposed to bending stress.

Combined with FD34 Truss they possess a broad range of applications.

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
- Compatible with FD34

### Specifications FD32

	<b>Metric</b>	<b>Imperial</b>
Height:	290 mm	11.42 in
Width:	50 mm	1.97 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:	~3 kg/m	~2 lbs/ft
Pin Position:	Diagonal	
Material:	EN AW-6082 T6	
Connection:	CS1 - CON	



# FD32 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
2	570	2	855	2	570	3	380	2	285	2
3	379	6	687	6	426	7	322	7	262	7
4	284	15	565	12	368	13	286	15	236	15
6	127	35	380	28	282	35	190	33	158	35
8	70	62	280	50	210	63	140	59	117	62
10	44	97	219	79	164	99	110	92	91	97

These values are usable for a lateral supported main tube. To reach full load capacity the maximum distance without lateral stabilization is: 1200 mm.  
 \* 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
6,56	383,0	0.08	1881,0	0.08	1254,0	0.12	836,0	0.08	627,0	0.08
9,84	254,7	0.24	1511,4	0.24	937,2	0.28	708,4	0.28	576,4	0.28
13,12	190,8	0.59	1243,0	0.47	809,6	0.51	629,2	0.59	519,2	0.59
19,69	85,3	1.38	836,0	1.10	620,4	1.38	418,0	1.30	347,6	1.38
26,25	47,0	2.44	616,0	1.97	462,0	2.48	308,0	2.32	257,4	2.44
32,81	29,6	3.82	481,8	3.11	360,8	3.90	242,0	3.62	200,2	3.82

These values are usable for a lateral supported main tube. To reach full load capacity the maximum distance without lateral stabilization is: 1200 mm.  
 \* 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.