



FD34 Square Truss

FD34 straight elements lend themselves to use as span exposed to bending stress resistant span up to 16m or as standard tower element. FD34 using the 2mm wall thickness assures durability and strength.

Designed for high frequency usage or installations, which demands higher loading. Ideal trussing system for rental, touring and exhibition companies.

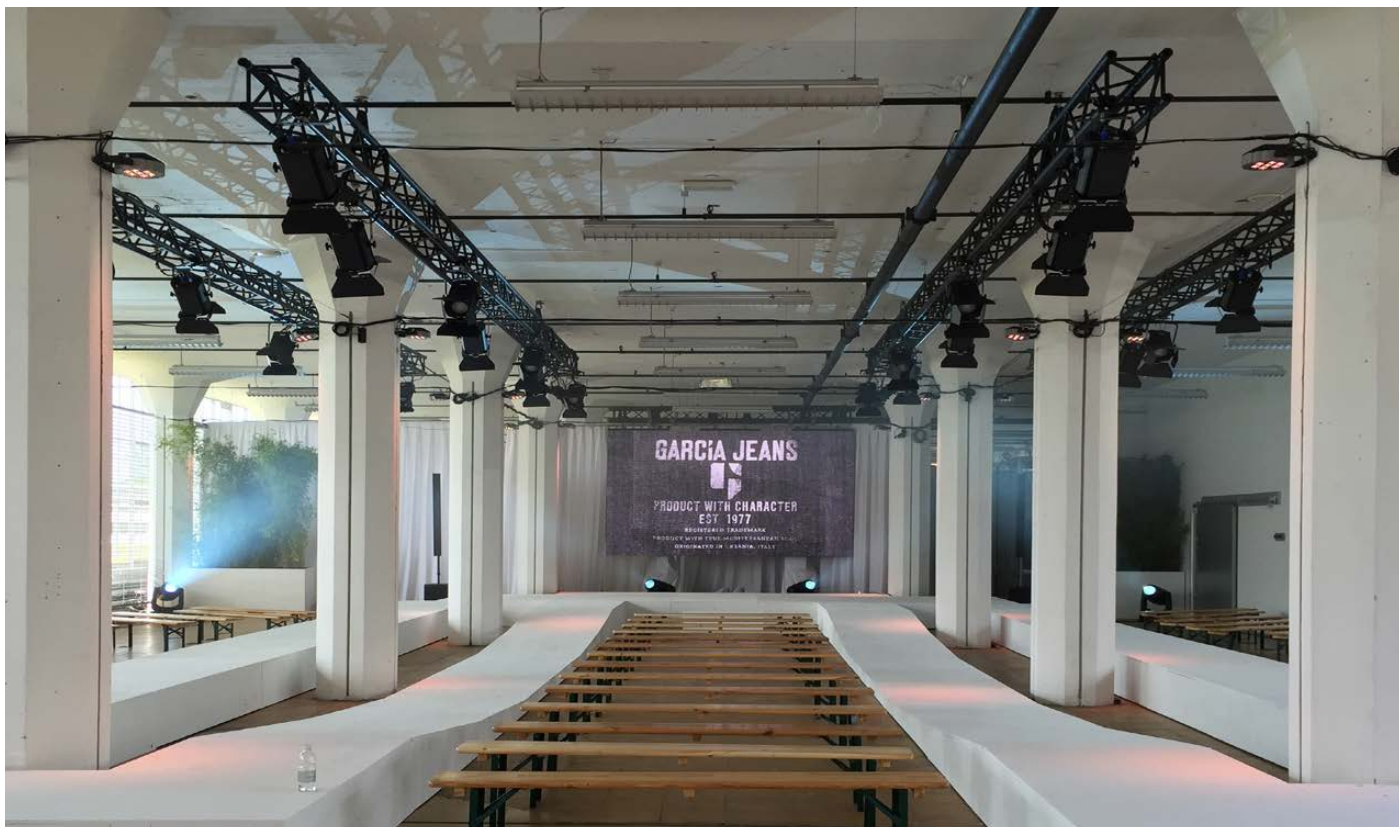
Made with the fast connection system and approved according the DIN EN 1999-1-1 & 1999-1-1/A2 (Eurocode 9).

Facts

- TÜV approved
- Also available in any non-standard length and shape
- Tolerance free conical connector system
- FD34 is also available as a Tower Truss

Specifications FD34

	Metric	Metric
Height:	290 mm	11.42 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:	~6 kg/m	~4 lbs/ft
Pin Position:	Diagonal	
Material:	EN AW-6082 T6	
Connection:	CS1 - CON	



FD34 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	254	35	761	28	565	35	380	33	317	35
9	110	78	494	63	370	80	247	74	206	78
12	59	139	356	114	267	142	178	133	149	141
14	42	190	296	157	222	194	148	182	123	192
15	36	219	271	181	203	223	135	210	113	221
16	31	250	249	208	187	254	124	239	104	251

* 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	170,7	1.38	1674,2	1.10	1243,0	1.38	836,0	1.30	697,4	1.38
29,53	73,9	3.07	1086,8	2.48	814,0	3.15	543,4	2.91	453,2	3.07
39,37	39,6	5.47	783,2	4.49	587,4	5.59	391,6	5.24	327,8	5.55
45,93	28,2	7.48	651,2	6.18	488,4	7.64	325,6	7.17	270,6	7.56
49,22	24,2	8.62	596,2	7.13	446,6	8.78	297,0	8.27	248,6	8.70
52,50	20,8	9.84	547,8	8.19	411,4	10.00	272,8	9.41	228,8	9.88

* 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.