

LOAD BEARING CHART

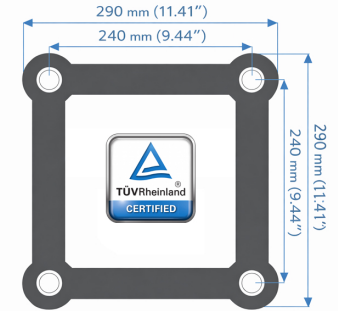
Dimensions: Height: 290mm (11.42"), Width: 290mm (11.42")

Main Tube: 50mm (2")

Braces: 1-inch / 20mm (0.75")

Wall Thickness: 2mm (0.078")

Material: EN-AWT6 6082 Aluminum Fabricated by GSI SLV-certified welders



****Compatible with many leading truss brands that utilize the standard conical connection system.****

SPAN	Maximum Allowable Loads Uniform Loads (For Straight Horizontal Spans)							
	Uniform Loads		Center Point		Third Point		Quarter Point	
	LOAD	DEFLECTION	LOAD	DEFLECTION	LOAD	DEFLECTION	LOAD	DEFLECTION
4m (13.13 ft)	501.0 kg/m (336.7 lb/ft)	1.36 cm (0.535 in)	922.0 kg (2032.7 lb)	1.01 cm (0.40 in)	627.0 kg (1382.3 lb)	1.16 cm (0.46 in)	496.0 kg (1093.5 lb)	1.28 cm (0.50 in)
5m (16.41 ft)	344.0 kg/m (231.2 lb/ft)	2.30 cm (0.905 in)	763.0 kg (1682.1 lb)	1.64 cm (0.65 in)	528.0 kg (1164.0 lb)	1.93 cm (0.76 in)	411.0 kg (906.1 lb)	2.09 cm (0.82 in)
6m (19.68 ft)	241.0 kg/m (161.9 lb/ft)	3.36 cm (1.323 in)	649.0 kg (1430.8 lb)	2.43 cm (0.96 in)	455.0 kg (1003.1 lb)	2.89 cm (1.14 in)	346.0 kg (762.8 lb)	3.06 cm (1.20 in)
7m (22.97 ft)	177.0 kg/m (118.9 lb/ft)	4.61 cm (1.815 in)	562.0 kg (1239.0 lb)	3.39 cm (1.33 in)	398.0 kg (877.4 lb)	4.06 cm (1.60 in)	297.0 kg (654.8 lb)	4.22 cm (1.66 in)
8m (26.25 ft)	135.0 kg/m (90.7 lb/ft)	6.06 cm (2.386 in)	494.0 kg (1089.1 lb)	4.51 cm (1.78 in)	353.0 kg (778.2 lb)	5.42 cm (2.13 in)	260.0 kg (573.2 lb)	5.56 cm (2.19 in)
9m (29.53 ft)	106.0 kg/m (71.2 lb/ft)	7.71 cm (3.035 in)	440.0 kg (970.0 lb)	5.80 cm (2.05 in)	316.0 kg (696.6 lb)	7.00 cm (2.76 in)	230.0 kg (507.1 lb)	7.10 cm (2.80 in)
10m (32.81 ft)	85.0 kg/m (57.1 lb/ft)	9.55 cm (3.760 in)	395.0 kg (870.8 lb)	7.26 cm (2.86 in)	285.0 kg (628.3 lb)	8.77 cm (3.45 in)	205.0 kg (452.0 lb)	8.82 cm (3.47 in)
11m (36.09 ft)	69.0 kg/m (46.4 lb/ft)	11.60 cm (4.567 in)	357.0 kg (787.1 lb)	8.89 cm (3.50 in)	258.0 kg (568.8 lb)	10.76 cm (4.24 in)	185.0 kg (407.9 lb)	10.75 cm (4.23 in)
12m (39.37 ft)	58.0 kg/m (38.8 lb/ft)	13.85 cm (4.453 in)	324.0 kg (714.3 lb)	10.71 cm (4.22 in)	236.0 kg (520.3 lb)	12.97 cm (5.11 in)	168.0 kg (370.4 lb)	12.87 cm (5.07 in)
13m (42.65 ft)	48.0 kg/m (32.3 lb/ft)	16.29 cm (6.413 in)	296.0 kg (652.6 lb)	12.71 cm (5.00 in)	216.0 kg (476.2 lb)	15.39 cm (6.06 in)	153.0 kg (337.3 lb)	15.19 cm (5.98 in)
14m (45.93 ft)	41.0 kg/m (27.6 lb/ft)	18.95 cm (7.461 in)	271.0 kg (597.5 lb)	14.90 cm (5.87 in)	199.0 kg (438.7 lb)	18.03 cm (7.10 in)	140.0 kg (308.7 lb)	17.71 cm (6.97 in)
15m (49.21 ft)	35.0 kg/m (23.5 lb/ft)	21.81 cm (8.587 in)	249.0 kg (549.0 lb)	17.30 cm (6.81 in)	183.0 kg (403.4 lb)	20.89 cm (8.22 in)	128.0 kg (282.2 lb)	20.44 cm (8.05 in)
16m (52.49 ft)	30.0 kg/m (20.1 lb/ft)	24.88 cm (9.795 in)	229.0 kg (504.9 lb)	19.90 cm (7.83 in)	169.0 kg (372.6 lb)	23.99 cm (9.44 in)	118.0 kg (260.1 lb)	23.38 cm (9.40 in)
17m (55.77 ft)	26.0 kg/m (17.5 lb/ft)	28.16 cm (11.087 in)	211.0 kg (465.2 lb)	22.71 cm (8.94 in)	157.0 kg (346.1 lb)	27.32 cm (10.76 in)	109.0 kg (240.3 lb)	26.53 cm (10.44 in)
18m (59.06 ft)	23.0 kg/m (15.5 lb/ft)	31.65 cm (12.460 in)	195.0 kg (421.9 lb)	25.74 cm (10.13 in)	146.0 kg (321.9 lb)	30.89 cm (12.16 in)	100.0 kg (220.5 lb)	29.90 cm (11.77 in)

WARNIG / NOTICE

Load ratings apply only to static (non-moving) loads with spans supported at two points. Values are calculated specifically for the Sound Barrier ST292 F34 2mm truss. If combined with other brands or components, this load chart is not valid. If dynamic forces, wind loads, or additional support points are introduced, consult a qualified structural engineer. The weight of the truss components is included in the load calculations. This load chart is based on engineering design analysis and has not been verified through destructive or non-destructive testing. Ratings apply to new truss only. Load capacity may decrease over time with use and flexing. Consult an engineer for guidance regarding structural fatigue and degradation. Sound Barrier is not responsible for misuse, improper installation, or omissions. Manufactured to meet Euro CE Standards EN 1090-1:2009 + A1:2011 and EN 1090-3

Sling Hitching

This configuration provides optimal load balance when lifting truss. Always verify sling and truss load ratings and follow manufacturer safety guidelines.

