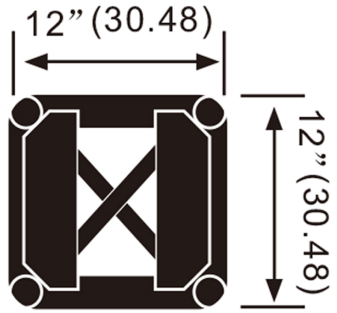
soundbarrier®

BLT12 series

12-inch BOLT Truss Segments

LOAD BEARING CHART

Dimensions: Height: 12” Width: 12”
Main Tube: 2-inch / 50mm
Braces: 1-inch / 25mm
Wall Thickness: 1/8-inch / 3mm
Material: EN-AWT6 6082 Aluminum Fabricated by GSI SLV-certified welders



	Maximum Allowable Loads Uniform Loads (For Straight Horizontal Spans)								
	Uniform Loads			Center Point		Third Point		Quarter Point	
SPAN	LOAD per FT.	LOAD	MAX DEFLECTION	LOAD (lbs)	MAX DEFLECTION	LOAD (lbs)	MAX DEFLECTION	LOAD (lbs)	MAX DEFLECTION
10 ft (3.05m)	472 lbs	4720 lbs (2141 kg)	0.32-inch	2710 lbs (1229 kg)	0.29-inch	1744 lbs (791 kg)	0.33-inch	110 lbs (503 kg)	0.31-inch
20 ft (6.10m)	115 lbs	2300 lbs (1043 kg)	0.65-inch	1206 lbs (547 kg)	0.56-inch	888 lbs (403 kg)	0.68-inch	633 lbs (287 kg)	0.68-inch
30 ft (9.14m)	60 lbs	1800 lbs (816 kg)	1.63-inch	880 lbs (1.31kg)	1.31-inch	600 lbs (272 kg)	1.48-inch	428 lbs (194 kg)	1.54-inch
40 ft (12.2m)	31 lbs	1240 lbs (562 kg)	2.68-inch	580 lbs (2.04 kg)	2.04-inch	442 lbs (200 kg)	2.62-inch	308 lbs (140 kg)	2.54-inch

INSTRUCTIONS

Loading tables rely on the proper assembly of trussing components. Ensure that diagonal bracing is positioned opposite the connecting pieces when assembling joints. For horizontal spans, orient the ladder sections vertically, never on the sides.

When tightening bolts, use a ratchet from the nut side and tighten only 1/4 to 1/2 turn past firm. Over-tightening can damage or break the bolts.

WARNING

Loading figures are valid only for static (non-moving) loads and spans with two supporting points. These figures are calculated exclusively for Sound Barrier BLT12; mixing with other trussing voids this chart. For dynamic or wind loads, or if more supporting points are used, consult a structural engineer. The weight of the truss components is included in the load table. The deflections listed are the maximum expected for the specified weights in indoor construction only (seismic and wind loads are not considered). Other sectional lengths are available, allowing for spans different from those shown in this chart. It is acceptable to interpolate load values for these other spans using this chart. This truss loading chart is based on engineering design studies and not on destructive or non-destructive testing.