

LOAD BEARING CHART

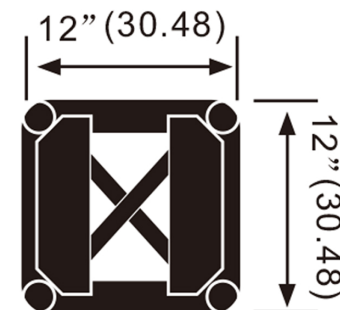
Dimensions: Height: 12" Width: 12"

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



SPAN	Maximum Allowable Loads Uniform Loads (For Straight Horizontal Spans)								
	Uniform Loads			Center Point		Third Point		Quarter Point	
	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 & SAFETY

- Bolt Orientation:** Ensure all bolts in a span of truss face the same direction. For truss uprights, bolts should be on top and nuts on the bottom.
- Tightening Bolts:** When tightening bolts, use a ratchet from the nut side. Turn only a few cranks past firm.
- Regular Inspections:** Inspect bolts regularly to ensure they are secure.
- Use of Washers:** Always use washers on both sides of a connection.
- Bolt Set Replacement:** Replace bolt sets periodically, as normal use degrades the threads on both the bolt and the nut.
- Avoid Over-Tightening:** Do not over-tighten bolts to avoid damaging or breaking
- Safety First:** Safety is paramount when bolting the truss. This task should not be taken lightly.
- Final Inspection:** Before raising a bolted box truss build, have qualified personnel inspect all truss connections and the rigging.

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.