

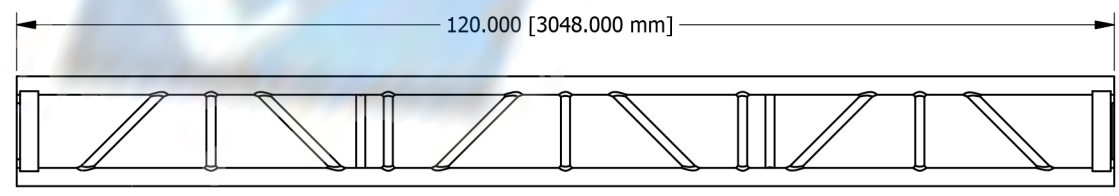
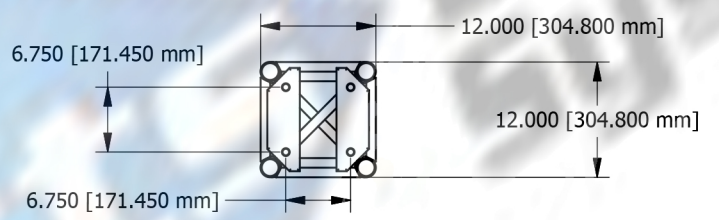
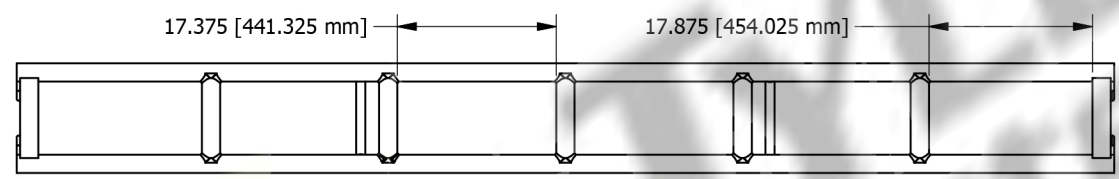
12" x 12" x 120" Standard Bolt Plate Truss Load Capacity Table (Repetitive Use)

TRUSS SPAN	UNIFORMLY DISTRIBUTED LOAD		CENTER POINT LOAD		THIRD POINT LOAD		QUARTER POINT LOAD	
	LOAD (pfl)	DEFL. (in)	LOAD (lbs)	DEFL. (in)	LOAD (lbs)	DEFL. (in)	LOAD (lbs)	DEFL. (in)
10'-0"	247	0.079	1360	0.079	765	0.076	680	0.093
20'-0"	78	0.462	741	0.360	383	0.300	357	0.408
30'-0"	43	1.352	665	1.130	371	1.090	333	1.330
40'-0"	21	2.290	316	1.520	269	2.040	170	1.840

Table Usage Notes:

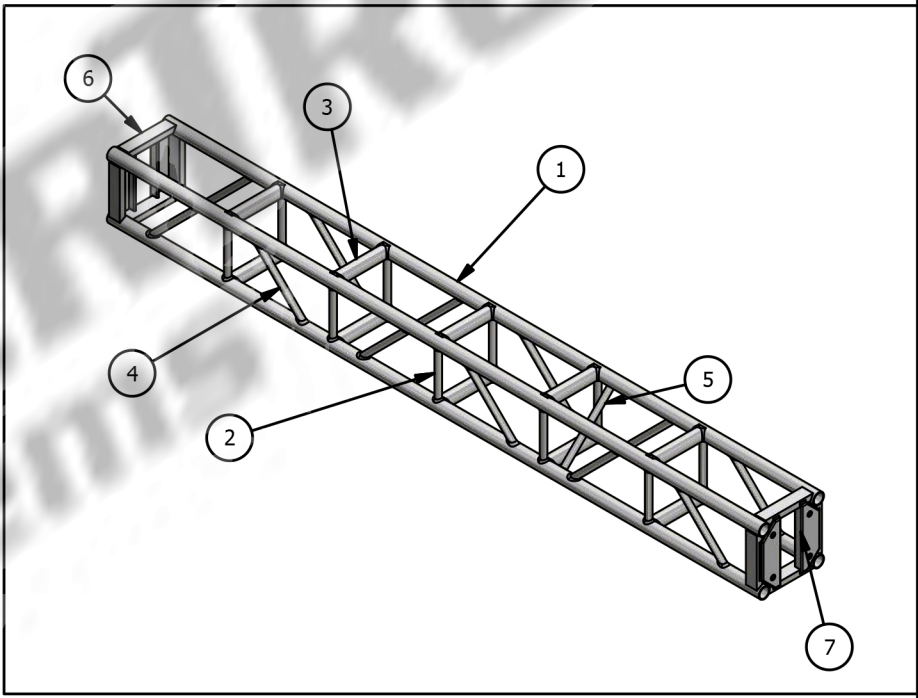
1. The truss is supporting vertical loads only, i.e. the truss diagonals are oriented vertically and no lateral loads are applied to the truss.
2. The truss is analyzed as a simple span beam. Truss support points are located at truss panel points.
3. The truss has been analyzed for static loads only.
4. All loads are applied at the centroid of the truss between the two ladder trusses below the truss.
5. All loads are applied at the panel points of the truss as to not induce local bending stresses in the chords.
6. All capacities are reduced by 0.85 per ANSI E1.2-2012 for repetitive use members.
7. Selfweight has been considered.
8. Maximum deflection limited to span/180.
9. Allowable loads based on 2010 Aluminum Design Manual.

Information extracted from the structural report by: **CLARK REDER ENGINEERING**



PARTS LIST

ITEM	PART NUMBER	DESCRIPTION
1	CHORDS	Ø2" X .125" ALUMINUM TUBE
2	VERTICALS	Ø1" X .125" ALUMINUM TUBE
3	HORIZONTALS	Ø2" X .125" ALUMINUM TUBE
4	DIAGONALS	Ø1" X .125" ALUMINUM TUBE
5	INTERNAL DIAGS	Ø1" X .125" ALUMINUM TUBE
6	ENDS	1" X 2" X .125" ALUMINUM TUBE
7	SMALL CAMLOCK	.375" ALUMINUM



Notes:

TITLE: 12" X 12" X 120" STANDARD TRUSS
 WEIGHT: 62 lbs
 CREATION DATE: 02/27/2014
 AUTHOR: NATHAN V
 TOLERANCE: +/- 0.010 (0.254mm) U.O.S
 REVISION: A

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