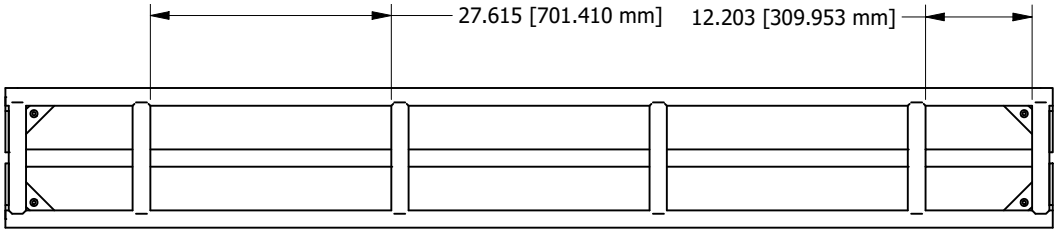
845120-16x16x120 Centerline Bolting (Repetitive Use 85%)

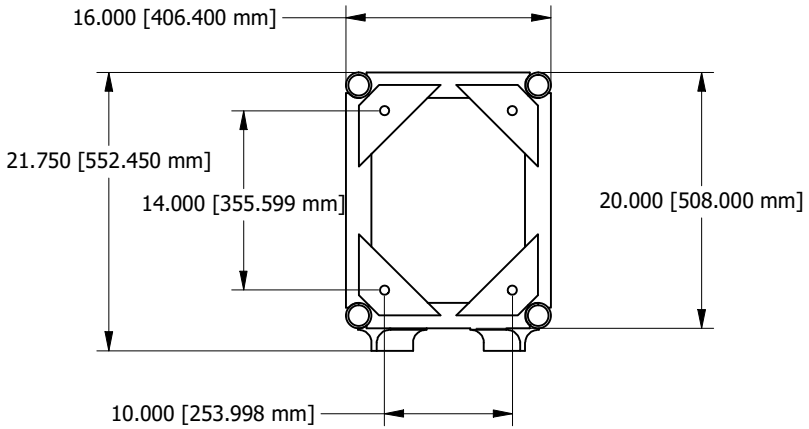
Span (ft)	Uniformly Distributed Load Load (plf)	Defl (in)	Center Point Load Load (lbs)	Defl (in)	3rd Point Load Load (lbs)	Defl (in)	Quarter Point Load Load (lbs)	Defl (in)	5th Point Load Load (lbs)	Defl (in)
10'-0"	628	0.04	4474	0.05	3142	0.06	2094	0.05	1571	0.05
20'-0"	216	0.23	2162	0.19	1622	0.24	1081	0.22	901	0.23
30'-0"	90	0.52	1357	0.43	1018	0.53	679	0.50	566	0.52
40'-0"	47	0.93	931	0.77	698	0.95	465	0.90	388	0.93

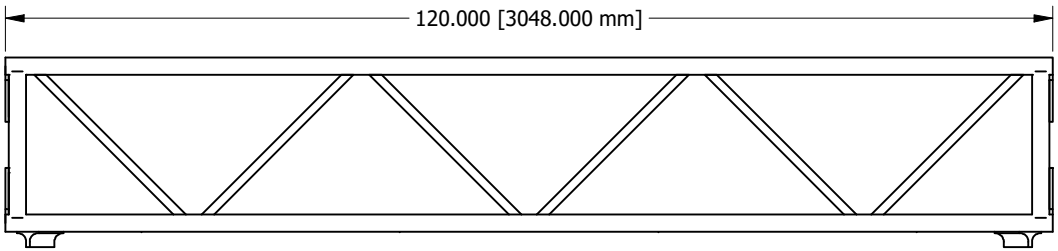
Table Usage Notes:

1) The truss is supporting vertical loads only, i.e. the truss ladders 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 will be 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 E1.2-2000 for repetive use members
7) Selfweight has been considered.
8) Maximum deflection based on span/180
9) Values based on the 2010 Aluminum Design Manual

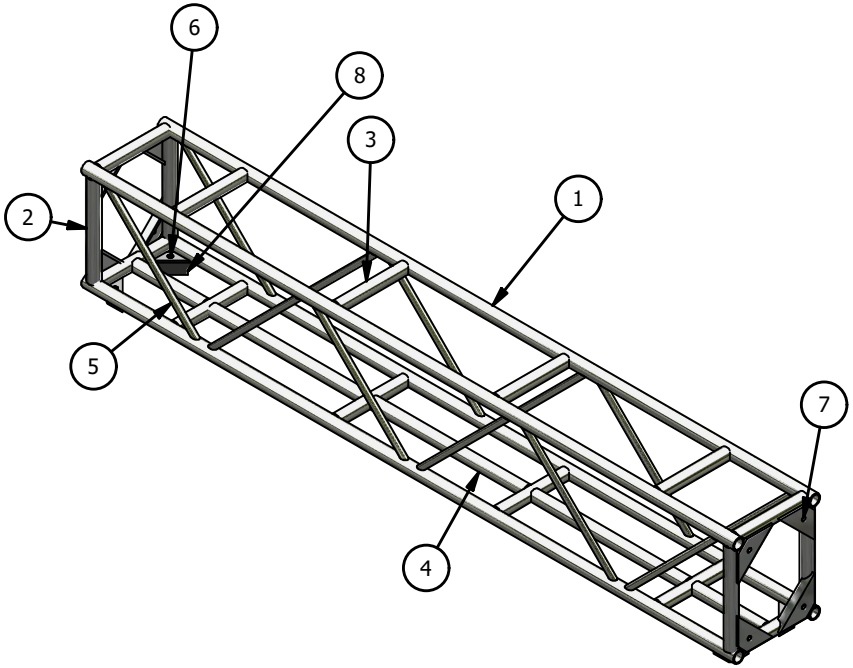
* The middle chord located on the bottom of the truss can support a maximum vertical laod of 800 pounds anywhere along its length. The cross member between outer chords can support a maximum vertical load of 800 pounds. Consideration shall be given to the middle chord loading such that the 800 pound load capacity of the cross member is not exceeded.







PARTS LIST		
ITEM	PART NUMBER	DESCRIPTION
1	CHORDS	Ø2" X .125" ROUND TUBE ALUMINUM
2	VERTICALS	Ø2" X .125" ROUND TUBE ALUMINUM
3	HORIZONTALS	Ø2" X .125" ROUND TUBE ALUMINUM
4	BACKBONE	Ø2" X .125" ROUND TUBE ALUMINUM
5	DIAGONALS	Ø1" X .125" ROUND TUBE ALUMINUM
6	STACKING BLOCK PLATES	.250" ALUMINUM PLATE
7	LARGE CAMLOCKS	.375" ALUMINUM PLATE
8	STACKING BLOCK	BLACK UHMW



Notes:

TITLE: 16" X 20" X 120" BOLTING CENTERLINE TRUSS 845120

WEIGHT: 93 lbs

CREATION DATE: 07/05/2015

AUTHOR: NATHAN V

TOLERANCE: +/- 0.010 (0.254mm) U.O.S

REVISION: A

TylerTruss Systems

1810 Fairfield Ln, Pendleton, Indiana, 46064

765-221-5050