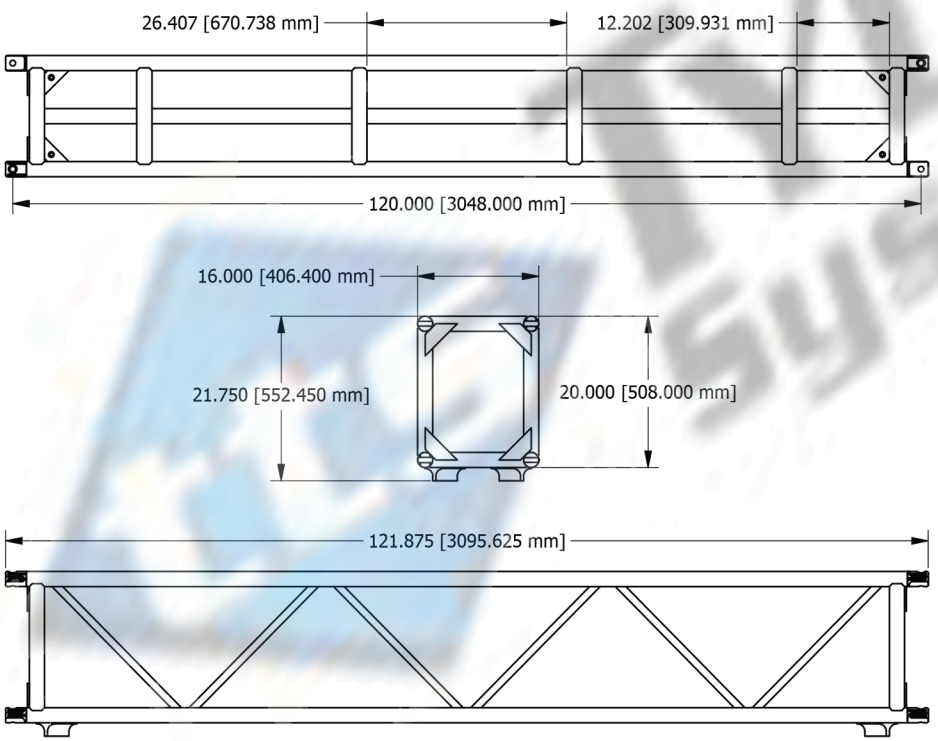
845120-16x20x120 Centerline Forkend Truss (Repetitive Use 85%)

TRUSS SPAN	UNIFORMLY DISTRIBUTED LOAD		CENTER POINT LOAD		THIRD POINT LOAD		QUARTER POINT LOAD		FIFTH POINT LOAD	
	LOAD (pfl)	DEFL. (in)	LOAD (lbs)	DEFL. (in)	LOAD (lbs)	DEFL. (in)	LOAD (lbs)	DEFL. (in)	LOAD (lbs)	DEFL. (in)
10′-0″	713	0.04	4916	0.05	2959	0.05	1973	0.05	1543	0.05
20′-0″	352	0.37	3176	0.27	2049	0.30	1365	0.28	1087	0.28
30′-0″	208	1.13	2288	0.69	1529	0.78	1020	0.73	820	0.74
40′-0″	113	2.01	1737	1.31	1187	1.51	791	1.41	641	1.44
50′-0″	61	2.84	1354	2.14	939	2.48	626	2.32	509	2.37

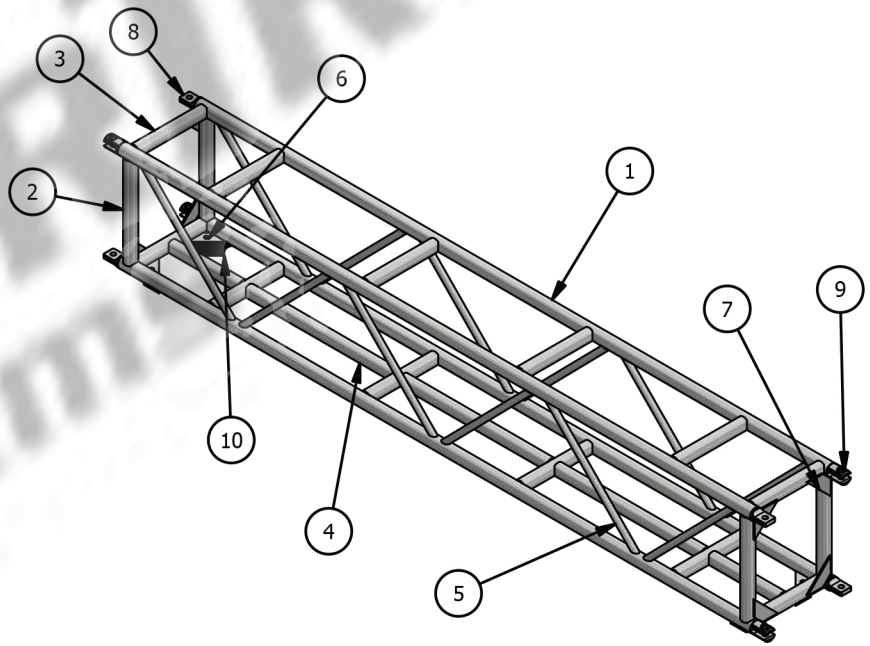
Table Usage Notes:

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

Information extracted from the structural report by: CLARK REDER ENGINEERING



PARTS LIST		
ITEM	PART NUMBER	DESCRIPTION
1	CHORDS	Ø2" X .1875" ALUMINUM TUBE
2	VERTICALS	Ø2" X .125" ALUMINUM TUBE
3	HORIZONTALS	Ø2" X .125" ALUMINUM TUBE
4	BACKBONE	Ø2" X .125" ALUMINUM TUBE
5	DIAGONALS	Ø1" X .125" ALUMINUM TUBE
6	STACKING BLOCK PLATES	.250" ALUMINUM PLATE
7	GUSSETS	.250" ALUMINUM PLATE
8	MALE FORKEND	12L14 STEEL
9	FEMALE FORKEND	12L14 STEEL
10	STACKING BLOCKS	BLACK UHMW



Notes:

TITLE: 16" X 20" X 120" CENTERLINE TRUSS
845120-AFH
WEIGHT: 121 lbs
CREATION DATE: 03/22/2012
AUTHOR: NATHAN V
TOLERANCE: +/- 0.010 (0.254mm) U.O.S
REVISION: A

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