

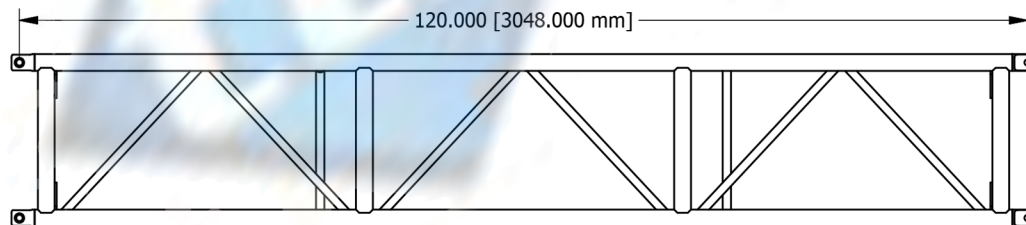
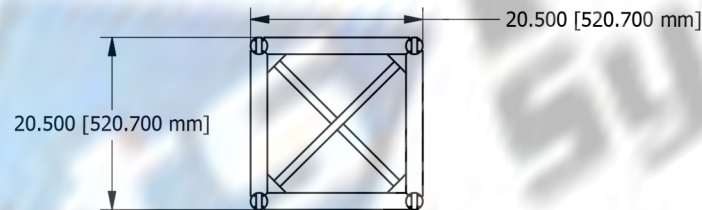
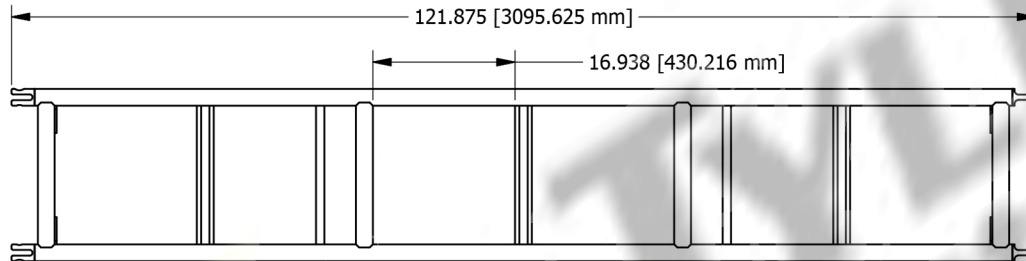
20.5" x 20.5" x 120" Medium Duty Spigoted Truss Load Capacity Table (Repetitive Use)

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"	665	0.041	6649	0.066	3325	0.056	2216	0.052	1662	0.050
20'-0"	327	0.329	4320	0.350	3240	0.446	2160	0.414	1637	0.396
30'-0"	186	0.974	2796	0.797	2097	1.008	1398	0.938	1165	0.982
40'-0"	100	1.744	2009	1.442	1507	1.802	1005	1.682	837	1.757
50'-0"	61	2.750	1517	2.304	1138	2.834	758	2.658	623	2.768

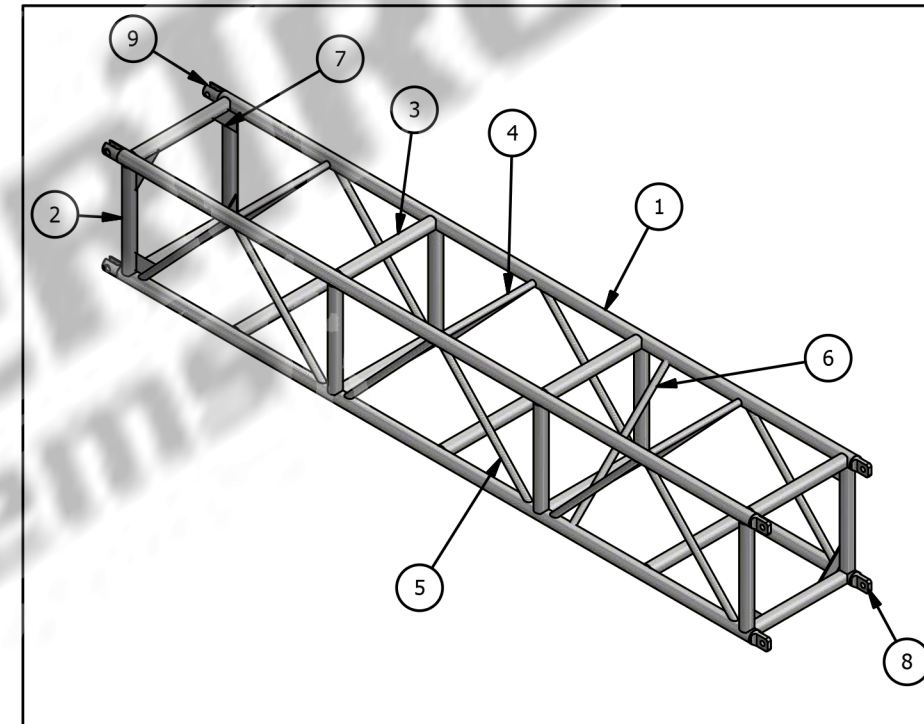
Table Usage Notes:

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.

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	HORIZONTALS	Ø1" X .125" ALUMINUM TUBE
5	DIAGONALS	Ø1" X .125" ALUMINUM TUBE
6	INTERNAL DIAGS	Ø1" X .125" ALUMINUM TUBE
7	PLATES	.375" ALUMINUM PLATE
8	MALE FORKEND	12L14 STEEL
9	FEMALE FORKEND	12L14 STEEL



Notes:

TITLE: 20.5" X 20.5" X 120" SPIGOTED TRUSS

WEIGHT: 127 lbs
 CREATION DATE: 08/24/2015
 AUTHOR: NATHAN V
 TOLERANCE: +/- 0.010 (0.254mm) U.O.S
 REVISION: A



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