20.5" x 20.5" x 120" Medium Duty Bolt Plate 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"	640	0.060	6060	0.090	3202	0.080	2134	0.070	1601	0.070
20'-0"	298	0.430	2975	0.350	2231	0.440	1488	0.410	1240	0.430
30′-0″	128	0.970	1924	0.790	1442	1.000	961	0.930	802	0.970
40'-0"	69	1.720	1380	1.420	1034	1.770	689	1.650	575	1.730
50'-0"	42	2.680	1039	2.240	779	2.770	519	2.590	433	2.700

## Table Usage Notes:

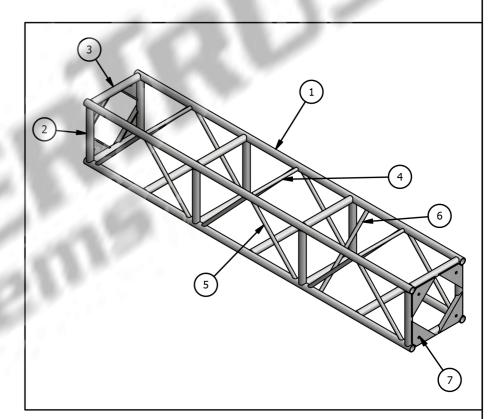
- 1. The truss is supporting vertical loads only, i.e. the truss diagonals are oriented vertically and no lateral loads are applied to the truss.
- 2. The truss is analyzed as a simple span beam. Truss support points are located at truss panel points.

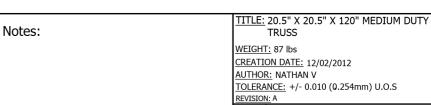
Information extracted from the structural report by: CLARK REDER

- 3. The truss has been analyzed for static loads only.
- 4. All loads are applied centered between the ladders.
- All loads are applied at the panel points of the truss only.
- All capacities are reduced by 0.85 per ANSI E1.2-2012 for repetitive use members.
- Selfweight has been considered. 7.
- Maximum deflection limited to span/180. 8.
- 9. Allowable loads based on 2010 Aluminum Design Manual.

17.542 [445.559 mm] 120.000 [3048.000 mm] 20.500 [520.700 mm] 20.500 [520.700 mm] 13.750 [349.250 mm] 13.750 [349.250 mm] 120.000 [3048.000 mm]

PARTS LIST							
ITEM	PART NUMBER	DESCRIPTION					
1	CHORDS	Ø2" X .125" 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	LARGE CAMLOCK	.375" ALUMINUM PLATE					







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