

9) Values based on the 2010 Aluminum Design Manual

Span (ft)	Uniformly Distributed Load		Center Point Load		3rd Point Load		Quarter Point Load		5th Point Load	
	Load (plf)	Defl (in)	Load (lbs)	Defl (in)	Load (lbs)	Defl (in)	Load (lbs)	Defl (in)	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 repetitive 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 load 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.