

ALLOWABLE LOAD DATA

24" TRUSS

Table 1 : 24" Deep x 24" Wide Forked End Truss Load Capacity Table (Single Use)

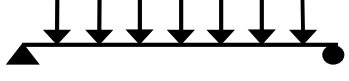
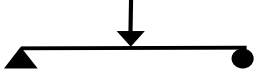
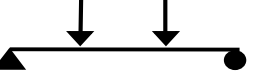
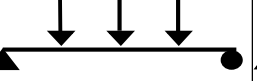
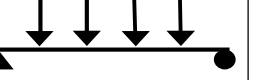
Span (ft)										
	Uniformly Distributed Load		Center Point Load		Third Point Load		Quarter Point Load		Fifth Point Load	
	Load (plf)	Defl (in)	Load (lbs)	Defl (in)	Load (lbs)	Defl (in)	Load (lbs)	Defl (in)	Load (lbs)	Defl (in)
8' - 0"	1115	0.020	8917	0.032	4459	0.027	2973	0.025	2229	0.024
16' - 0"	544	0.157	8708	0.248	4353	0.213	2903	0.199	2177	0.187
24' - 0"	354	0.522	5787	0.567	4249	0.709	2833	0.663	2124	0.623
32' - 0"	259	1.223	4248	1.014	3186	1.287	2124	1.205	1770	1.253
40' - 0"	165	1.957	3304	1.594	2478	2.009	1652	1.885	1376	1.957
48' - 0"	111	2.818	2657	2.314	1993	2.89	1329	2.717	1107	2.818

Table Usage Notes:

- 1) The truss is supporting vertical tools 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 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 include local bending stresses in the chords.
- 6) Selfweight has been considered.
- 7) Maximum deflection based on span/180.
- 8) Tables based on the 2010 Aluminum Design Manual.

Table 2 : 24" Deep x 24" Wide Forked End Truss Load Capacity Table (Repetitive Use)

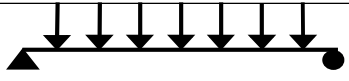
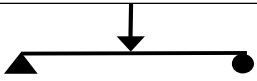
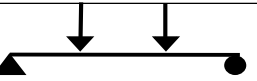
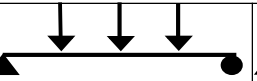
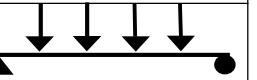
Span (ft)										
	Uniformly Distributed Load		Center Point Load		Third Point Load		Quarter Point Load		Fifth Point Load	
	Load (plf)	Defl (in)	Load (lbs)	Defl (in)	Load (lbs)	Defl (in)	Load (lbs)	Defl (in)	Load (lbs)	Defl (in)
8' - 0"	948	0.017	7579	0.027	3790	0.023	2527	0.021	1895	0.020
16' - 0"	462	0.133	7402	0.211	3700	0.181	2468	0.169	1850	0.159
24' - 0"	301	0.444	4919	0.482	3612	0.603	2408	0.564	1805	0.530
32' - 0"	220	1.040	3611	0.862	2708	1.094	1805	1.024	1505	1.065
40' - 0"	140	1.663	2808	1.355	2106	1.708	1404	1.602	1170	1.663
48' - 0"	94	2	2258	2	1694	2	1130	2	941	2

Table Usage Notes:

- 1) The truss is supporting vertical tools 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 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 include 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) Tables based on the 2010 Aluminum Design Manual.