

14x24x120 Truss Allowable Service Loads And Associated Deflections (Notes 1, 2, 3)

Span (ft.)	Uniform Load			Point Load at Center		Point Loads at 1/3 Points		Point Loads at 1/4 Points		Selfweight	
	Load (lbs./ft)	Load (lbs.)	Maximum Deflection (in.)	Load (lbs.)	Maximum Deflection (in.)	Load (lbs.)	Maximum Deflection (in.)	Load (lbs.)	Maximum Deflection (in.)	Load (lbs.)	Maximum Deflection (in.)
10	690	6,900	0.297	1,630	0.122	2,125	0.263	1,745	0.286	-	0.003
20	400	8,000	1.176	3,740	0.971	2,235	0.902	1,455	0.844	-	0.026
30	150	4,500	1.991	1,445	1.120	1,665	2.000	1,175	1.995	-	0.111
40	62.5	2,500	2.679	1,520	2.669	920	2.678	650	2.665	-	0.335
50	28	1,400	3.291	880	3.337	520	3.321	375	3.337	-	0.796
60	13	780	3.998	485	4.009	285	3.987	205	4.000	-	1.629

Notes:

- 1) The load shown is the allowable load that the truss can support at the given span based on either truss strength or truss deflection limited to span/180.
- 2) The trusses indicated are standalone only. They have not been analysed in a stage configuration.
- 3) The truss capacities are meant for lighting and equipment loads only. Occupancy loads have not been considered and the trusses are not modeled as a work platform or a catwalk.