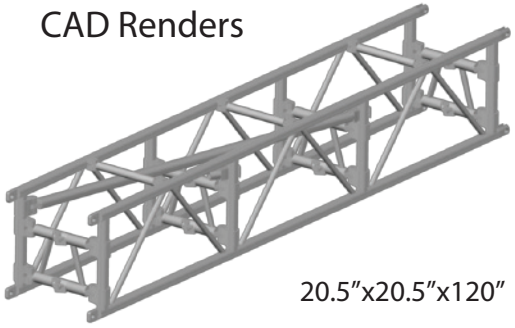
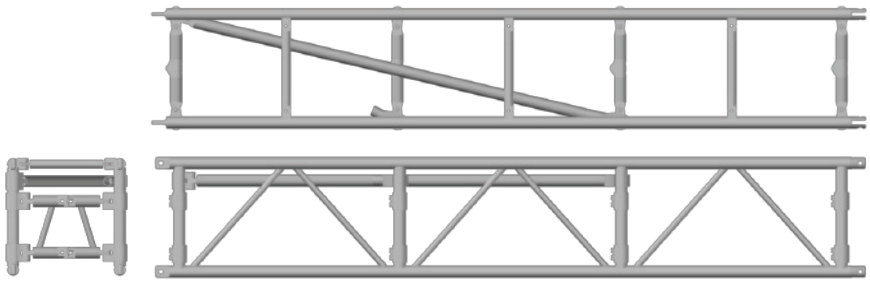
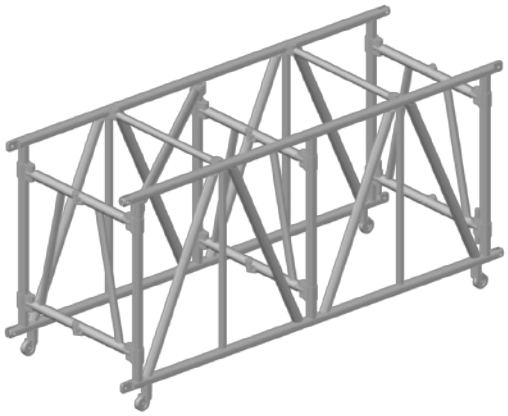
Tyler True Fold Truss

CAD Renders

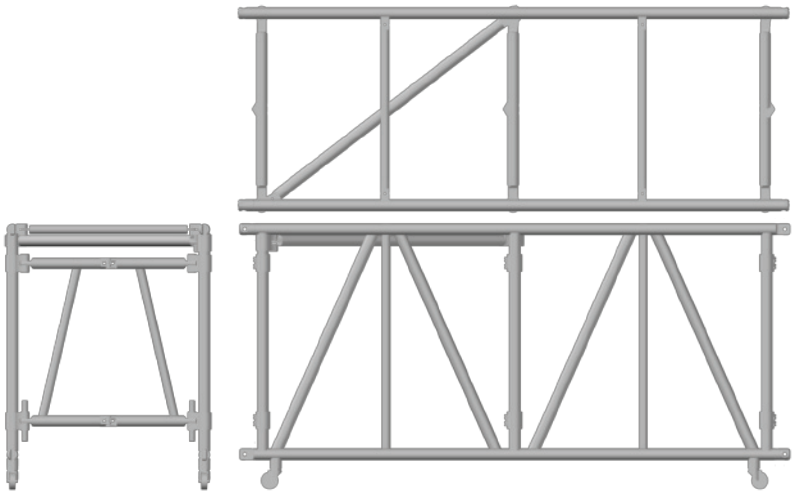


20.5″x20.5″x120″





36″x42″x96″



Load Data

36x42 Flat Folding Truss (Single Diagonals) Allowable Service Loads And Associated Deflections (Notes 1, 2, 3, 4)

	Uniform Load		Point Load at Center		Point Loads at 1/3 Points		Point Loads at 1/4 Points		Selfweight	
Span (ft.)	Load (lbs./ft)	Maximum Deflection (in.)	Load (lbs.)	Maximum Deflection (in.)	Load (lbs.)	Maximum Deflection (in.)	Load (lbs.)	Maximum Deflection (in.)	Load (lbs.)	Maximum Deflection (in.)
40	122	0.509	4,590	0.774	2,295	0.640	1,530	0.595	-	0.061
60	73	1.204	4,225	1.804	2,115	1.499	1,410	1.428	-	0.228
80	50	2.461	3,875	3.566	1,940	3.002	1,295	2.894	-	0.627
100	36	4.429	3,525	6.245	1,770	5.474	1,180	5.180	-	1.425

Notes:

1) The load shown is the maximum load that the truss can support at that span.
2) The trusses indicated are standalone only. They have not been analysed in a stage configuration.
3) All trusses indicated have single diagonal web members.
4) The truss capacities are meant for lighting and equipment loads only. Occupancy loads have not been considered.

Kenneth A. Veach
Licensed Structural Engineer
State of Illinois

20.5"x20.5" Folding MD Truss Alowable Service Loads And Associated Deflections (Notes 1, 2, 3)

	Uniform Load			Point Load at Center		Point Loads at 1/3 Points		Point Loads at 1/4 Points		Selfweight	
Span (ft.)	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	1,165	11,650	0.207	5,525	0.164	3,025	0.147	1,965	0.154	-	0.002
20	380	7,600	0.519	5,275	0.600	2,740	0.499	1,835	0.479	-	0.012
30	221	6,630	1.317	4,500	1.471	2,600	1.394	1,800	1.284	-	0.053
40	148	5,920	2.659	3,125	2.306	2,175	2.668	1,565	2.677	-	0.157
50	74	3,700	3.334	2,280	3.331	1,365	3.334	940	3.336	-	0.371
60	39	2,340	3.938	1,480	4.004	875	3.996	625	3.991	-	0.756

Notes:

1) The load shown is the maximum 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.

INDIANAPOLIS - Fabrication & Business
720 W. Pioneer Trace Suite 100, Pendleton, IN 46064-9075
(O) 765-221-5050 (F) 765-221-5051

NASHVILLE/Soundcheck
750 Cowan Street, Nashville, TN 37207
(O) 615-401-7201 (F) 615-401-7203