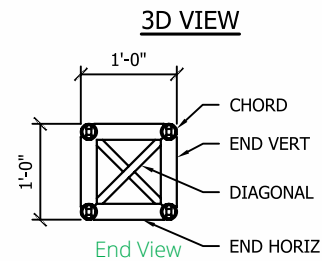
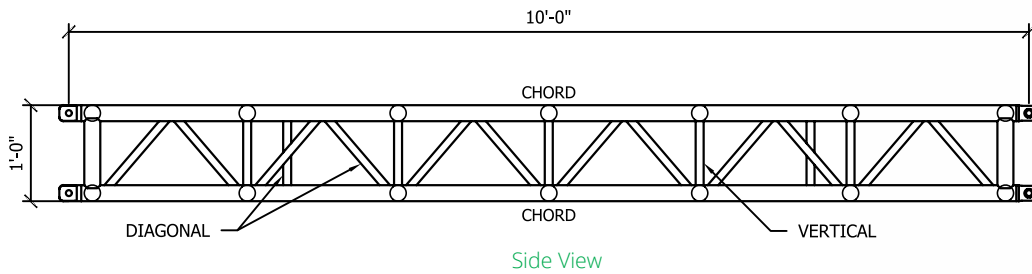
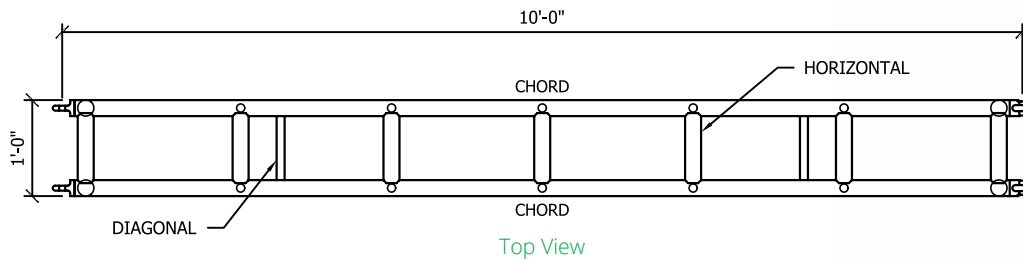




Box Truss Light Duty Truss 12" x 12" - Spigoted



Fabricated by certified welders from 6061-T6 or 6082-T6 Aluminum. Made in the USA and Europe.

STANDARD LENGTHS

DESCRIPTION	ITEM CODE	WEIGHT	
		LBS	KGS
5 FT LIGHT-DUTY SPIGOTED TRUSS	TC 1212-060S	61	27.7
8 FT LIGHT-DUTY SPIGOTED TRUSS	TC 1212-096S	80	36.3
10 FT LIGHT-DUTY SPIGOTED TRUSS	TC 1212-120S	92	41.7
LIGHT-DUTY SPIGOTED 2-WAY CORNER BLOCK	TC 1212-C2S	39	17.7
LIGHT-DUTY SPIGOTED 3-WAY CORNER BLOCK	TC 1212-C3S	54	24.5
LIGHT-DUTY SPIGOTED 4-WAY CORNER BLOCK	TC 1212-C4S	66	29.9
LIGHT-DUTY SPIGOTED 5-WAY CORNER BLOCK	TC 1212-C5S	81	36.7
LIGHT-DUTY SPIGOTED 6-WAY CORNER BLOCK	TC 1212-C6S	95	43.1
3/4" CLEVIS PIN	TC CP-75	0.4	0.18
MEDIUM R-CLIP	TC RC-MED	-	-



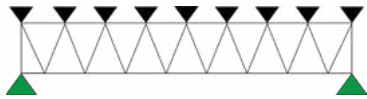
For a copy of the TOMCAT truss user manual or for help in performing your truss inspections please e-mail sales@tomcatusa.com.



Box Truss Light Duty Truss 12" x 12" - Spigoted



Maximum Allowable Loading (Deflection Limited to L/100)

SIMPLE SPAN (DISTANCE BETWEEN SUPPORTS)		UNIFORMLY DISTRIBUTED LOAD			MAXIMUM ALLOWABLE LOAD PER POINT							
					CENTER POINT LOAD		THIRD POINT LOAD		QUARTER POINT LOAD		FIFTH POINT LOAD	
		LOAD	TOTAL LOAD	DEFLECTION	LOAD	DEFLECTION	LOAD	DEFLECTION	LOAD	DEFLECTION	LOAD	DEFLECTION
FEET	METERS	LBS/FT	LBS	INCHES	LBS	INCHES	LBS	INCHES	LBS	INCHES	LBS	INCHES
5	1.5	1567	7835	.02	7834	.03	3917	.03	2611	.03	1959	.02
10	3.0	779	7790	.16	5289	.18	3897	.22	2598	.21	1948	.20
15	4.6	466	6990	.49	3492	.40	2619	.51	1746	.47	1455	.50
20	6.1	258	5160	.88	2584	.72	1938	.91	1292	.85	1077	.89
25	7.6	162	4050	1.38	2030	1.13	1523	1.43	1015	1.33	846	1.39
30	9.1	110	3300	1.99	1655	1.64	1241	2.06	827	1.92	689	2.01
35	10.7	79	2765	2.72	1381	2.25	1035	2.81	690	2.63	575	2.74
40	12.2	58	2320	3.58	1170	2.98	877	3.69	585	3.45	487	3.60
45	13.7	45	2025	4.55	1001	3.83	751	4.69	501	4.40	417	4.58
50	15.2	35	1750	5.65	863	4.80	647	5.82	431	5.48	359	5.69

Allowable Loading Guidelines

- The truss is designed with two faces of diagonal bracing. The truss was reviewed for load in one direction only, assumed to be parallel in orientation to the diagonal braces located on the opposite two faces of the module or span. If loads are applied in multiple axes, then the loading shall be approved by a qualified person.
- The truss was analyzed as a static simple span beam. The span lengths shown in the table should be the distance between supports, assumed to be at each end of the span. Any usage outside of this scope, cantilevers, dynamic loads, indeterminate structures, etc. shall be approved by a qualified person.
- The maximum span length shown in the table should not be exceeded without approval by a qualified person.
- All loads and supports shall be located at a panel point within the truss.
- The truss was analyzed assuming that the loads were applied at the centroid of the truss so as to not induce twisting or torsion. Unbalanced or off-center loading scenarios shall be approved by a qualified person.
- The self-weight of the truss has already been removed from the allowable loading data.
- Allowable loads based on the 2020 Aluminum Design Manual.
- The deflection shown in the table is theoretical, actual deflection measurements can vary.
- The allowable loading has been reduced to limit deflection to L/100, where L equals the simple span length. Please contact TOMCAT for L/180 and non-deflection-limited loading data.
- Simple span lengths are assumed to be constructed from the minimum number of truss modules 10ft long or less. For example, a 35ft simple span is assumed to be made from 3 x 10ft sections & 1 x 5ft section of truss.
- The allowable loading has not been reduced for repetitive use as per ANSI E1.2 – 2021. Please reduce by a factor of 0.85 if required.
- Please consult the appropriate TOMCAT truss user manual before use. Please contact TOMCAT should you require a copy.
- The load tables are reprinted from engineering reports developed by Clark Reder Engineering, Inc., dated August 7, 2024.