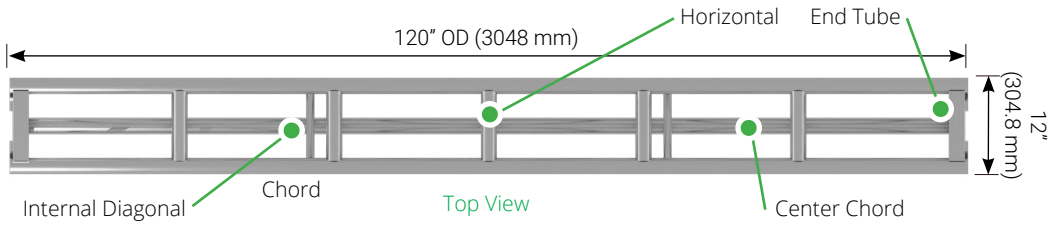
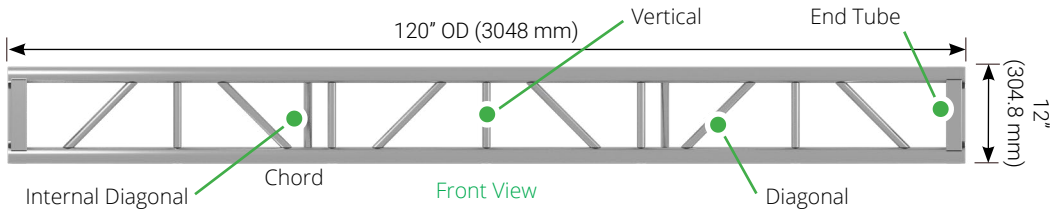
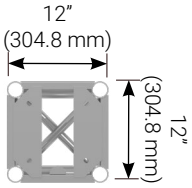


Box Truss

Plated Center Chord Truss 12”x 12”







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

STANDARD LENGTHS

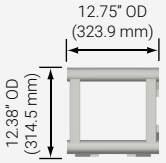
LENGTH	ITEM CODE	WEIGHT LBS	WEIGHT KGS
5’	TC 1212-060BCC	40	18
6’	TC 1212-072BCC	48	22
8’	TC 1212-096BCC	59	27
10’	TC 1212-120BCC	70	32

- *Four (4) connection sets are included.*
- *Custom truss lengths are available.*
- *Truss is supplied in brushed natural aluminum finish as standard with powder coated options upon request.*

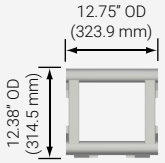
CORNERS

PRODUCT	ITEM CODE	WEIGHT LBS	WEIGHT KGS
2 Way Corner	TC 1212-C2B	18	8
3 Way Corner	TC 1212-C3B	22	10
4 Way Corner	TC 1212-C4B	27	12
5 Way Corner	TC 1212-C5B	29	13
6 Way Corner	TC 1212-C6B	31	14

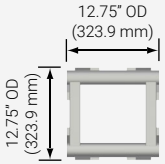
- *Please specify connection orientation on 2 Way – 4 Way Corners.*



2 Way Corner



3 Way Corner



4 Way Corner



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

STRENGTH UNDER PRESSURE



Box Truss

Plated Center Chord Truss 12”x 12”

TOMCAT

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		CENTER CHORD LOAD	No. Point Load
		LOAD	TOTAL LOAD	DEFLECTION	LOAD	DEFLECTION	LOAD	DEFLECTION	LOAD	DEFLECTION	LOAD	DEFLECTION	LOAD	
FEET	METERS	LBS/FT	LBS	INCHES	LBS	INCHES	LBS	INCHES	LBS	INCHES	LBS	INCHES	LBS	
10	3	444	4440	0.13	2221	0.11	1666	0.14	1111	0.13	925	0.14	550	6
15	4.6	195	2925	0.30	1459	0.25	1094	0.31	730	0.29	608	0.30	325	9
20	6.1	107	2140	0.54	1072	0.44	804	0.56	536	0.52	447	0.54	175	12
25	7.6	67	1675	0.85	834	0,70	625	0.87	417	0.82	347	0.85	110	15
30	9.1	45	1350	1.23	671	1.02	503	1.26	336	1.18	280	1.23	75	18
35	10.7	32	1120	1.68	551	1.41	413	1.73	276	1.62	230	1.69	50	21
40	12.2	23	923	2.21	458	1.87	344	2.27	229	2.14	191	2.22	35	24
45	13.7	17	765	2.82	383	2.42	287	2.89	191	2.73	159	2.83	25	27
50	15.2	13	650	3.51	320	3.05	240	3.60	160	3.42	133	3.53	20	30

Uniformly Distributed Load Deflection Calculator (Deflection Limited to L/100)

SIMPLE SPAN (DISTANCE BETWEEN SUPPORTS)		TOTAL LOAD	% OF MAXIMUM UNIFORMLY DISTRIBUTED LOAD CAPACITY USED									
			0%		25%		50%		75%		100%	
			LOAD	DEFLECTION	LOAD	DEFLECTION	LOAD	DEFLECTION	LOAD	DEFLECTION	LOAD	DEFLECTION
FEET	METERS	LBS	LBS	INCHES	LBS	INCHES	LBS	INCHES	LBS	INCHES	LBS	INCHES
10	3	4440	0	0.002	1110	0.035	2220	0.068	3,330	0.101	4440	0.134
15	4.6	2925	0	0.010	731	0.083	1463	0.156	2,194	0.229	2925	0.302
20	6.1	2140	0	0.033	535	0.160	1070	0.286	1,605	0.413	2140	0.539
25	7.6	1675	0	0.080	419	0.272	838	0.463	1,256	0.655	1675	0.846
30	9.1	1350	0	0.165	338	0.430	675	0.695	1,013	0.960	1350	1.225
35	10.7	1120	0	0.301	280	0.645	560	0.990	840	1.334	1120	1.678
40	12.2	923	0	0.514	231	0.937	462	1.360	692	1.784	923	2.207
45	13.7	765	0	0.822	191	1.320	383	1.819	574	2.318	765	2.817
50	15.2	650	0	1.229	163	1.799	325	2.369	488	2.940	650	3.510

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. Loads and forces on the bottom center chord shall be limited as indicated in the load table.
- 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 been reduced for repetitive use as per ANSI E1.2-2021. Non-repetitive use conditions would allow adding the 15% capacity back into the load tables.
- 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 September 18th, 2026.

Data valid as of October 27, 2026