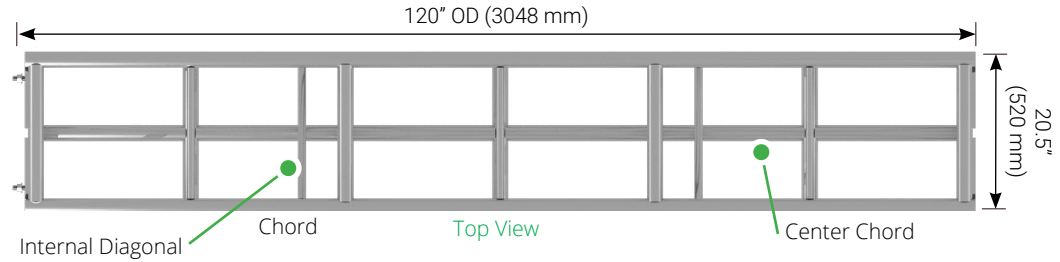
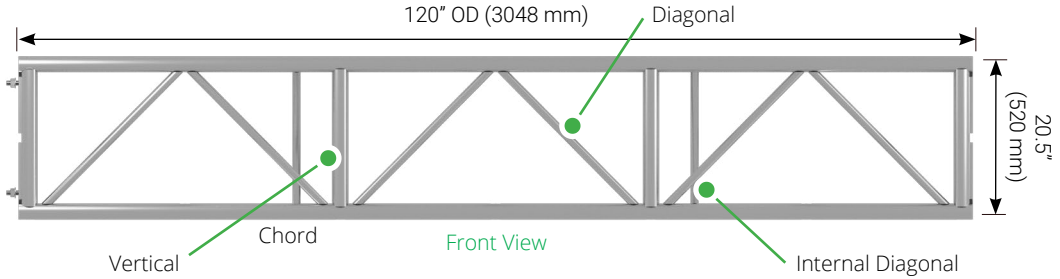
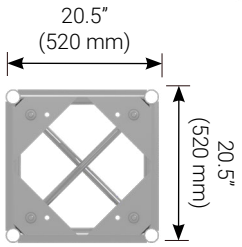


Box Truss

Plated Center Chord Truss 20.5” x 20.5”







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

STANDARD LENGTHS

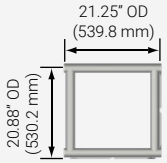
LENGTH	ITEM CODE	WEIGHT LBS	WEIGHT KGS
5’	TC 2020-060BCC	59	27
8’	TC 2020-096BCC	83	38
10’	TC 2020-120BCC	92	42

- *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.*

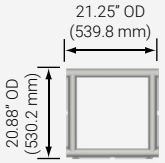
CORNERS

PRODUCT	ITEM CODE	WEIGHT LBS	WEIGHT KGS
2 Way Corner	TC 2020-C2B	36	17
3 Way Corner	TC 2020-C3B	43	20
4 Way Corner	TC 2020-C4B	51	24
5 Way Corner	TC 2020-C5B	59	27
6 Way Corner	TC 2020-C6B	65	30

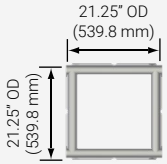
- *Please specify connection orientation on 2 Way – 4 Way Corners.*



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 20.5” x 20.5”

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	DEFLEC1485	LOAD	DEFLECTION	LOAD	
FEET	METERS	LBS/FT	LBS	INCHES	LBS	INCHES	LBS	INCHES	LBS	INCHES	LBS	INCHES	LBS	
5	1.5	1485	7425	0.010	7424	0.010	3712	0.010	2475	0.010	1856	0.010	656	3
10	3.0	739	7390	0.066	5792	0.083	3694	0.091	2463	0.084	1847	0.079	656	6
15	4.6	490	7350	0.220	3831	0.190	2873	0.240	1915	0.220	1596	0.230	656	9
20	6.1	284	5680	0.412	2842	0.335	2131	0.427	1421	0.396	1184	0.415	473	12
25	7.6	179	4475	0.650	2241	0.530	1681	0.670	1120	0.620	934	0.650	290	15
30	9.1	122	3660	0.932	1834	0.763	1376	0.964	917	0.897	764	0.939	203	18
35	10.7	88	3080	1.270	1539	1.050	1154	1.320	769	1.230	641	1.280	145	21
40	12.2	66	2640	1.670	1312	1.383	984	1.724	656	1.610	547	1.681	110	24
45	13.7	50	2250	2.120	1132	1.770	849	2.190	566	2.050	472	2.140	83	27
50	15.2	39	1950	2.634	985	2.214	739	2.714	492	2.547	410	2.651	65	30
55	16.8	31	1705	3.200	861	2.720	646	3.300	430	3.100	359	3.220	51	33
60	18.3	25	1500	3.837	755	3.282	566	3.943	377	3.722	314	3.860	41	36
65	19.8	20	1300	4.530	662	3.910	496	4.650	331	4.410	276	4.560	33	39
70	21.3	17	1190	5.290	580	4.620	435	5.420	290	5.150	242	5.320	28	42

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
5	1.5	7425	0	0.000	1856	0.003	3713	0.005	5569	0.008	7425	0.010
10	3.0	7390	0	0.001	1848	0.017	3695	0.033	5543	0.050	7390	0.066
15	4.6	7350	0	0.004	1838	0.058	3675	0.112	5513	0.166	7350	0.220
20	6.1	5680	0	0.013	1420	0.113	2840	0.212	4260	0.312	5680	0.412
25	7.6	4475	0	0.032	1119	0.186	2238	0.341	3356	0.495	4475	0.650
30	9.1	3660	0	0.065	915	0.282	1830	0.499	2745	0.715	3660	0.932
35	10.7	3080	0	0.120	770	0.408	1540	0.695	2310	0.983	3080	1.270
40	12.2	2640	0	0.204	660	0.571	1320	0.937	1980	1.304	2640	1.670
45	13.7	2250	0	0.329	563	0.777	1125	1.225	1688	1.672	2250	2.120
50	15.2	1950	0	0.503	488	1.036	975	1.568	1463	2.101	1950	2.634
55	16.8	1705	0	0.732	426	1.349	853	1.966	1279	2.583	1705	3.200
60	18.3	1500	0	1.032	375	1.733	750	2.435	1125	3.136	1500	3.837
65	19.8	1300	0	1.427	325	2.203	650	2.979	975	3.754	1300	4.530
70	21.3	1190	0	1.858	298	2.716	595	3.574	893	4.432	1190	5.290

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 18, 2026.

Data valid as of October 27, 2026