

ModTruss 12" Aluminum Truss Load Table

With Splice Plates at connections



Span Feet (Meters)	Uniformly Distributed Load		Center Point Load		Third Point Load Total Load = Point Load x 2		Quarter Point Load Total Load = Point Load x 3		Fifth Point Load Total Load = Point Load x 4	
	Total Load Pounds (kgs)	Deflection Inches (mm)	Point Load Pounds (kgs)	Deflection Inches (mm)	Point Load Pounds (kgs)	Deflection Inches (mm)	Point Load Pounds (kgs)	Deflection Inches (mm)	Point Load Pounds (kgs)	Deflection Inches (mm)
5 (1.52)	9,152 (4,151.27)	0.02 (0.51)	9,152 (4,151.27)	0.03 (0.99)	4,576 (2,075.64)	0.03 (0.84)	3,051 (1,383.91)	0.03 (0.79)	2,288 (1,037.82)	0.03 (0.76)
10 (3.04)	9,112 (4,133.13)	0.19 (4.98)	6,556 (2,973.75)	0.22 (5.72)	4,556 (2,066.57)	0.26 (6.76)	3,038 (1,378.01)	0.25 (6.35)	2,278 (1,033.28)	0.23 (5.99)
15 (4.57)	8,664 (3,929.92)	0.63 (16.05)	4,332 (1,964.96)	0.50 (12.88)	3,249 (1,473.72)	0.64 (16.41)	2,166 (982.48)	0.60 (15.42)	1,805 (818.73)	0.63 (16.18)
20 (6.09)	6,424 (2,913.88)	1.12 (28.52)	3,212 (1,456.94)	0.90 (22.99)	2,409 (1,092.70)	1.14 (29.13)	1,606 (728.47)	1.07 (27.41)	1,338 (606.91)	1.13 (28.75)
25 (7.62)	5,056 (2,293.36)	1.75 (44.45)	2,528 (1,146.68)	1.41 (36.04)	1,896 (860.01)	1.79 (45.52)	1,264 (573.34)	1.68 (42.88)	1,053 (477.63)	1.76 (44.91)
30 (9.14)	4,136 (1,876.06)	2.52 (64.19)	2,068 (938.03)	2.05 (52.12)	1,551 (703.52)	2.58 (65.53)	1,034 (469.01)	2.43 (61.77)	862 (390.99)	2.54 (64.67)
35 (10.67)	3,459 (1,568.98)	3.44 (87.38)	1,730 (784.71)	2.80 (71.35)	1,297 (588.31)	3.51 (89.15)	865 (392.36)	3.31 (84.15)	721 (327.04)	3.46 (88.01)
40 (12.19)	2,948 (1,337.19)	4.49 (114.05)	1,474 (668.60)	3.69 (93.73)	1,106 (501.67)	4.58 (116.38)	737 (334.30)	4.33 (109.98)	614 (278.51)	4.52 (114.94)

ModTruss 12" Aluminum Truss Load Table

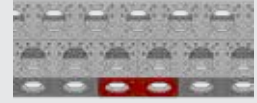
Without Splice Plates at connections



Span Feet (Meters)	Uniformly Distributed Load		Center Point Load		Third Point Load Total Load = Point Load x 2		Quarter Point Load Total Load = Point Load x 3		Fifth Point Load Total Load = Point Load x 4	
	Total Load Pounds (kgs)	Deflection Inches (mm)	Point Load Pounds (kgs)	Deflection Inches (mm)	Point Load Pounds (kgs)	Deflection Inches (mm)	Point Load Pounds (kgs)	Deflection Inches (mm)	Point Load Pounds (kgs)	Deflection Inches (mm)
5 (1.52)	17,080 (7,747.36)	0.01 (0.25)	7,016 (3,182.40)	0.09 (2.29)	6,516 (2,955.61)	0.10 (2.54)	5,180 (2,349.61)	0.11 (2.79)	4,266 (1,935.03)	0.10 (2.54)
10 (3.04)	10,160 (4,608.50)	0.19 (4.83)	6,016 (2,728.81)	0.22 (5.59)	5,016 (2,275.22)	0.29 (7.37)	3,346 (1,518.16)	0.25 (6.35)	2,516 (1,141.24)	0.26 (6.60)
15 (4.57)	3,740 (1,696.44)	0.41 (10.41)	2,516 (1,141.24)	0.46 (11.68)	1,266 (574.25)	0.43 (10.92)	1,016 (460.85)	0.44 (11.18)	766 (347.45)	0.46 (11.68)
20 (6.09)	1,920 (870.90)	0.83 (21.08)	1,416 (642.29)	0.65 (16.51)	716 (324.77)	0.85 (21.59)	708 (321.14)	0.73 (18.54)	590 (267.62)	0.61 (15.49)
25 (7.62)	1,700 (771.11)	1.03 (26.16)	1,216 (551.57)	1.31 (33.27)	666 (302.09)	1.22 (30.99)	566 (256.73)	1.15 (29.21)	472 (214.10)	0.96 (24.38)
30 (9.14)	1,280 (580.60)	1.71 (43.43)	1,116 (506.21)	1.70 (43.18)	566 (256.73)	1.57 (39.88)	449 (203.66)	1.66 (42.46)	366 (166.02)	1.60 (40.64)
35 (10.67)	880 (399.16)	2.39 (60.71)	566 (256.73)	2.54 (64.52)	341 (154.68)	2.64 (67.06)	261 (118.39)	2.61 (66.29)	196 (88.90)	2.62 (66.55)
40 (12.19)	640 (290.30)	3.41 (86.61)	232 (105.23)	2.81 (71.37)	166 (75.30)	3.08 (78.23)	55 (24.95)	3.28 (83.31)	91 (41.28)	3.29 (83.57)

ModTruss 12" Aluminum *Laminated* Truss Load Table

With Splice Plates at connections



Span Feet (Meters)	Uniformly Distributed Load		Center Point Load		Third Point Load <small>Total Load = Point Load x 2</small>		Quarter Point Load <small>Total Load = Point Load x 3</small>		Fifth Point Load <small>Total Load = Point Load x 4</small>	
	Total Load Pounds (kgs)	Deflection Inches (mm)	Point Load Pounds (kgs)	Deflection Inches (mm)	Point Load Pounds (kgs)	Deflection Inches (mm)	Point Load Pounds (kgs)	Deflection Inches (mm)	Point Load Pounds (kgs)	Deflection Inches (mm)
5 (1.52)	16,904 (7,667.53)	0.01 (0.25)	16,904 (7,667.53)	0.01 (0.41)	8,452 (3,833.76)	0.01 (0.36)	5,635 (2,555.99)	0.01 (0.33)	4,226 (1,916.88)	0.01 (0.30)
10 (3.04)	16,824 (7,631.24)	0.08 (2.03)	13,424 (6,089.02)	0.10 (2.59)	8,412 (3,815.62)	0.10 (2.77)	5,608 (2,543.75)	0.10 (2.29)	4,206 (1,907.81)	0.09 (2.46)
15 (4.57)	16,728 (7,587.69)	0.27 (6.86)	8,872 (4,024.27)	0.23 (5.84)	6,654 (3,018.20)	0.29 (7.44)	4,436 (2,012.14)	0.27 (6.99)	3,697 (1,676.93)	0.289 (7.34)
20 (6.09)	13,152 (5,965.65)	0.50 (12.93)	6,576 (2,982.82)	0.41 (10.41)	4,932 (2,237.12)	0.52 (13.21)	3,288 (1,491.41)	0.48 (12.42)	2,740 (1,242.84)	0.51 (13.03)
25 (7.62)	10,362 (4,700.12)	0.79 (20.19)	5,181 (2,350.06)	0.64 (16.33)	3,886 (1,762.66)	0.81 (20.62)	2,590 (1,174.80)	0.76 (19.43)	2,159 (979.31)	0.80 (20.37)
30 (9.14)	8,472 (3,842.84)	1.14 (29.08)	4,236 (1,921.42)	0.93 (23.62)	3,177 (1,441.06)	1.16 (29.69)	2,118 (960.71)	1.10 (27.99)	1,765 (800.59)	1.15 (29.24)
35 (10.67)	7,097 (3,219.15)	1.55 (39.60)	3,549 (1,609.80)	1.27 (32.31)	2,661 (1,207.01)	1.59 (40.41)	1,774 (804.67)	1.50 (38.15)	1,479 (670.86)	1.57 (39.88)
40 (12.19)	6,044 (2,741.51)	2.03 (51.71)	3,022 (1,370.76)	1.67 (42.47)	2,267 (1,028.29)	2.07 (52.76)	1,511 (685.38)	1.96 (49.86)	1,259 (571.07)	2.05 (52.10)
45 (13.72)	5,205 (2,360.95)	2.57 (65.46)	2,603 (1,180.70)	2.13 (54.10)	1,952 (885.41)	2.62 (66.73)	1,301 (590.12)	2.48 (63.20)	1,084 (491.69)	2.59 (65.91)
50 (15.24)	4,517 (2,048.88)	3.182 (80.82)	2,258 (1,024.21)	2.65 (67.31)	1,694 (768.39)	3.24 (82.32)	1,129 (512.11)	3.07 (78.11)	941 (426.83)	3.20 (81.36)

Information extracted from the structural report by Clark Reeder Engineering | 10091 Mosteller Lane | West Chester OH 45069 | Ph 513-851-1223 | Date: 11/2/2018 | CRE Project No. 17.419.07 | Drawn by: JMR/DDL | S1.2

12" Aluminum Truss (unbraced length)
Column Load Capacity

10' (3.04 meters)	50,850 lbs (23,065.17 kg)
20' (6.09 meters)	45,180 lbs (20,493.30 kg)
30' (9.14 meters)	35,640 lbs (16,166.03 kg)

All columns are assumed to be pinned top and bottom and use an Effective Length Factor of K=1.0.

All capacities assume that no other shear, flexure, or torsional forces are applied to the column.

Information extracted from the structural report by Clark Reeder Engineering
Date: 02/22/2019 | CRE Project No. 19.419.05 | Engineer: DJP