

ModTruss 12" Aluminum Truss Load Table

With Splice Plates at connections



Span Feet (Meters)	Uniformly Distributed Load (Total Load x Span - feet)		Center Point Load (Point Load x1)		Third Point Load (Point Load x2)		Quarter Point Load (Point Load x3)		Fifth Point Load (Point Load x4)	
	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 (Total Load x Span - feet)		Center Point Load (Point Load x1)		Third Point Load (Point Load x2)		Quarter Point Load (Point Load x3)		Fifth Point Load (Point Load x4)	
	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 (4,553.16)	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 (Total Load Divided by Span - feet)		Center Point Load (Point Load x1)		Third Point Load (Point Load x2)		Quarter Point Load (Point Load x3)		Fifth Point Load (Point Load x4)	
	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 Reder 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'	50,850 lbs
20'	45,180 lbs
30'	35,640 lbs

