ModTruss 12" Steel 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)*	17,859 *(8,100.71)*	0.01 *(0.43)*	17,859 *(8,100.71)*	0.02 *(0.69)*	8,930 *(4,050.58)*	0.02 *(0.58)*	5,953 *(2,700.24)*	0.022 *(0.56)*	4,465 *(2,025.29)*	0.02 *(0.51)*
10 *(3.04)*	17,742 *(8,047.64)*	0.13 *(3.43)*	12,271 *(5,566.03)*	0.14 *(3.78)*	8,871 *(4,023.82)*	0.18 *(4.65)*	5,914 *(2,682.55)*	0.172 *(4.37)*	4,436 *(2,012.14)*	0.16 *(4.11)*
15 *(4.57)*	16,134 *(7,318.26)*	0.41 *(10.59)*	8,067 *(3,659.13)*	0.33 *(8.53)*	6,050 *(2,744.23)*	0.42 ***(10.85)***	4,034 *(1,829.79)*	0.401 *(10.19)*	3,361 *(1,524.52)*	0.42 *(10.69)*
20 *(6.09)*	11,884 *(5,390.49)*	0.74 *(18.85)*	5,942 *(2,695.25)*	0.60 *(15.24)*	4,457 *(2,021.66)*	0.75 *(19.25)*	2,971 *(1,347.62)*	0.714 *(18.14)*	2,476 *(1,123.10)*	0.74 *(18.99)*
25 *(7.62)*	9,263 *(4,201.63)*	1.16 *(29.46)*	4,632 *(2,101.04)*	0.94 *(23.95)*	3,474 *(1,575.78)*	1.18 *(30.07)*	2,316 *(1,050.52)*	1.116 *(28.35)*	1,930 *(875.43)*	1.16 *(29.67)*
30 *(9.14)*	7,493 *(3,398.77)*	1.67 *(42.42)*	3,746 *(1,699.16)*	1.36 *(34.72)*	2,810 *(2,549.19)*	1.70 *(43.28)*	1,873 *(849.58)*	1.609 *(40.87)*	1,561 *(708.06)*	1.68 *(42.72)*
35 *(10.67)*	6,171 *(2,799.12)*	2.27 *(57.73)*	3,085 *(1,399.33)*	1.87 *(47.68)*	2,314 *(1,049.61)*	2.31 *(58.85)*	1,543 *(699.89)*	2.194 *(55.73)*	1,286 *(583.32)*	2.28 *(58.14)*
40 *(12.19)*	5,168 *(2,344.17)*	2.96 *(75.41)*	2,584 *(1,172.08)*	2.47 *(62.84)*	1,938 *(879.06)*	3.02 *(76.81)*	1,292 *(586.04)*	2.870 *(72.90)*	1,077 *(488.52)*	2.98 *(75.92)*

ModTruss 12" Steel Truss Load Table

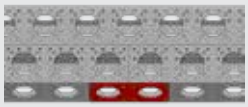
Without Splice Plates at connections

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)*	13,779 *(6,250.05)*	0.01 *(0.33)*	6,890 *(3,125.25)*	0.010 *(0.25)*	5,167 *(2,343.71)*	0.01 *(0.33)*	3,445 *(1,562.63)*	0.13 *(3.30)*	2,871 *(1,302.26)*	0.01 *(0.33)*
10 *(3.04)*	6,702 *(3,039.98)*	0.05 *(1.32)*	3,351 *(1,519.99)*	0.04 *(1.07)*	2,513 *(1,139.88)*	0.05 *(1.35)*	1,676 *(760.22)*	0.05 *(1.27)*	1,396 *(633.21)*	0.05 *(1.32)*
15 *(4.57)*	4,241 *(1,923.69)*	0.11 *(4.50)*	2,121 *(962.07)*	0.09 *(2.44)*	1,590 *(721.21)*	0.12 ***(3.05)***	1,060 *(480.81)*	0.11 *(2.87)*	884 *(400.98)*	0.11 *(2.99)*
20 *(6.09)*	2,964 *(1,344.45)*	0.20 *(5.28)*	1,482 *(672.22)*	0.17 *(4.39)*	1,112 *(504.39)*	0.21 *(5.38)*	741 *(336.11)*	0.20 *(5.11)*	618 *(280.32)*	0.21 *(5.33)*
25 *(7.62)*	2,127 *(964.79)*	0.32 *(8.26)*	1,064 *(482.62)*	0.27 *(7.01)*	798 *(361.97)*	0.33 *(8.41)*	532 *(241.31)*	0.31 *(8.03)*	443 *(200.94)*	0.32 *(8.31)*
30 *(9.14)*	1,546 *(701.25)*	0.46 *(11.91)*	773 *(350.63)*	0.40 *(10.31)*	580 *(263.08)*	0.47 *(12.09)*	387 *(175.54)*	0.45 *(13.87)*	322 *(146.06)*	0.47 *(11.96)*
35 *(10.67)*	1,074 *(487.16)*	0.63 *(16.21)*	537 *(243.58)*	0.56 *(14.45)*	403 *(182.80)*	0.64 *(16.41)*	268 *(121.56)*	0.62 *(15.85)*	224 *(101.61)*	0.64 *(16.28)*
40 *(12.19)*	708 *(321.14)*	0.83 *(21.16)*	354 *(160.57)*	0.76 *(19.43)*	266 *(120.66)*	0.84 *(21.36)*	177 *(80.29)*	0.82 *(20.83)*	148 *(67.13)*	0.83 *(21.23)*

Information extracted from the structrual report by Clark Reder Engineering | 10091 Mosteller Lane | West Chester OH 45069 | Ph 513-851-1223 | Date: 11/7/2017 | CRE Project No. 17.419.07 | Drawn by: JMR/DDL | S1.2

Mod**Truss 12" Steel *Laminated* 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)*	87,718 *(39,788.22)*	0.01 *(0.46)*	50,918 *(23,096.02)*	0.017 *(0.43)*	38,259 *(17,353.99)*	0.02 *(0.56)*	25,506 *(11,569.33)*	0.02 *(0.51)*	21,263 *(9,644.73)*	0.02 *(0.51)*
10 *(3.04)*	50,684 *(22,989.88)*	0.08 *(2.16)*	25,342 *(11,494.94)*	0.06 *(1.73)*	18,942 *(8,591.95)*	0.08 *(2.18)*	12,628 *(5,727.96)*	0.08 *(2.06)*	10,538 *(4,779.96)*	0.08 *(2.06)*
15 *(4.57)*	33,335 *(15,120.50)*	0.19 *(4.85)*	16,668 *(7,560.48)*	0.15 *(3.91)*	12,501 *(5,670.36)*	0.19 ***(4.95)***	8,334 *(3,780.34)*	0.18 *(4.65)*	6,945 *(3,150.20)*	0.19 *(4.83)*
20 *(6.09)*	24,544 *(11,132.97)*	0.33 *(8.61)*	12,272 *(5,772.87)*	0.27 *(6.96)*	9,204 *(4,174.86)*	0.34 *(8.79)*	6,136 *(2,783.24)*	0.32 *(8.28)*	5,113 *(2,319.22)*	0.34 *(8.64)*
25 *(7.62)*	19,166 *(8,693.55)*	0.53 *(13.46)*	9,583 *(4,346.78)*	0.43 *(10.95)*	7,187 *(3,259.97)*	0.54 *(13.74)*	4,792 *(2,173.62)*	0.51 *(12.95)*	3,993 *(1,811.19)*	0.53 *(13.46)*
30 *(9.14)*	15,495 *(7,028.41)*	0.76 *(19.38)*	7,747 *(3,513.98)*	0.62 *(15.88)*	5,811 *(2,635.83)*	0.77 *(19.79)*	3,874 *(1,757.22)*	0.73 *(18.54)*	3,228 *(1,464.20)*	0.76 *(19.30)*
35 *(10.67)*	12,799 *(5,805.53)*	1.03 *(26.39)*	6,399 *(2,902.54)*	0.85 *(21.77)*	4,799 *(2,176.79)*	1.05 *(26.90)*	3,200 *(1,451.50)*	1.00 *(25.40)*	2,666 *(1,209.28)*	1.04 *(26.42)*
40 *(12.19)*	10,712 *(4,858.88)*	1.35 *(34.47)*	5,356 *(2,429.44)*	1.13 *(28.70)*	4,017 *(1,822.08)*	1.38 *(35.10)*	2,678 *(1,214.72)*	1.31 *(33.27)*	2,232 *(1,012.42)*	1.36 *(34.54)*
45 *(13.72)*	9,032 *(4,096.85)*	1.71 *(43.61)*	4,516 *(2,048.42)*	1.44 *(36.70)*	3,387 *(1,536.32)*	1.74 *(44.40)*	2,258 *(1,024.21)*	1.66 *(42.16)*	1,882 *(853.66)*	1.72 *(43.69)*
50 *(15.24)*	7,636 *(3,463.63)*	2.12 *(53.85)*	3,818 *(1,731.82)*	1.80 *(45.82)*	2,864 *(1,299.09)*	2.15 *(54.74)*	1,909 *(865.91)*	2.05 *(52.07)*	1,591 *(721.67)*	2.13 *(54.10)*
55 *(16.76)*	6,447 *(2,924.31)*	2.56 *(65.15)*	3,224 *(1,462.38)*	2.21 *(56.13)*	2,418 *(1,096.79)*	2.60 *(66.17)*	1,612 *(731.19)*	2.49 *(63.25)*	1,343 *(609.17)*	2.58 *(65.53)*
60 *(18.29)*	5,413 *(2,455.30)*	3.05 *(77.55)*	2,707 *(1,227.88)*	2.66 *(67.72)*	2,030 *(920.79)*	3.09 *(78.64)*	1,353 *(613.71)*	2.97 *(75.44)*	1,128 *(511.65)*	3.06 *(77.72)*
65 *(19.81)*	4,499 *(2,040.71)*	3.58 *(91.01)*	2,249 *(1,020.13)*	3.17 *(80.62)*	1,687 *(765.21)*	3.62 *(92.18)*	1,125 *(510.29)*	3.50 *(88.90)*	937 *(425.02)*	3.60 *(91.44)*
70 *(21.34)*	3,678 *(1,668.31)*	4.15 *(105.56)*	1,839 *(834.16)*	3.73 *(94.95)*	1,379 *(625.50)*	4.20 *(106.73)*	920 *(417.31)*	4.07 *(103.38)*	766 *(347.45)*	4.17 *(105.92)*

12" Steel Truss (unbraced length) **Column Load Capacity**	
10' *(3.04 meters)*	98,370 lbs *(44,619.88 kg)*
20' *(6.09 meters)*	90,720 lbs *(41,149.90 kg)*
30' *(9.14 meters)*	79,200 lbs *(35,924.51 kg)*

All columns are assumed to be pinned top and bottom and use and 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 Reder Engineering Date: 02/22/2019 CRE Project No. 19.419.05 | Engineer: DJP