



# LOAD AND DEFLECTION

## F14 Square Truss

**Tubes:** 20mm (0.79in); **Wall Thickness:** 2mm (0.08in); **Braces:** 6mm (0.24in)

**Truss Size:** 100mm (3.93in) x 100mm (3.93in); **Material:** EN-AW 6082 T6

	2m(6.65ft)	4m(13.12ft)	6m(19.68ft)	8m(26.24ft)
Total Load	937.42lb	537.92lb	383.76lb	246.65lb
Distrib. Load Per Ft.	147.9lb	41lb	19.5lb	9.4lb
Deflection	0.5in	1.6in	3.6in	6.1in
Center Point Load	324.1lb	205.1lb	152.1lb	114.7lb
Deflection	0.3in	1in	2.4in	4.7in

## F23 Triangle Truss

**Tubes:** 35mm (1.34in); **Wall Thickness:** 2mm (0.08in); **Braces:** 8mm (0.31in)

**Truss Size:** 220mm (8.66in) x 220mm (8.66in); **Material:** EN-AW 6082 T6

	2m(6.65ft)	3m(9.84ft)	4m(13.12ft)	6m(19.68ft)	8m(26.24ft)	10m(32.81ft)
Total Load	771.45lb	753.74lb	563.16lb	256.21lb	246.65lb	177.12lb
Distrib. Load Per Ft.	117.6lb	76.6lb	43lb	18.1lb	9.4lb	5.4lb
Deflection	0.1in	0.2in	0.4in	0.8in	1.4in	2.2in
Center Point Load	577.7lb	377.1lb	280lb	178.6lb	123.5lb	90.4lb
Deflection	0.1in	0.2in	0.3in	0.6in	1.2in	1.9in

## F24 Square Truss

**Tubes:** 35mm (1.34in); **Wall Thickness:** 2mm (0.08in); **Braces:** 8mm (0.31in)

**Truss Size:** 220mm (8.66in) x 220mm (8.66in); **Material:** EN-AW 6082 T6

	2m(6.65ft)	3m(13.12ft)	4m(13.12ft)	6m(19.68ft)	8m(26.24ft)	10m(32.81ft)
Total Load	890.84lb	886.58lb	881.66lb	860lb	616.64lb	462.48lb
Distrib. Load Per Ft.	135.8lb	90.1lb	67.2lb	43.7lb	23.5lb	14.1lb
Deflection	0in	0.1in	0.3in	0.9in	1.6in	2.6in
Center Point Load	893lb	780.6lb	630.6lb	430lb	310.9lb	235.9lb
Deflection	0.1in	0.2in	0.3in	0.7in	1.3in	2.1in

## F31 Single Tube Truss

**Tubes:** 50mm (1.97in); **Wall Thickness:** 2mm (0.08in)

**Material:** EN-AW 6082 T6

	1m(3.28ft)	2m(6.65ft)	3m(13.12ft)	4m(13.12ft)
Total Load	965.63lb	480.84lb	323.73lb	237.47lb
Distrib. Load Per Ft.	294.4lb	73.3lb	32.9lb	18.1lb
Deflection	0.4in	1.5in	3.3in	5.9in
Center Point Load	482.9lb	240.3lb	161lb	121.3lb
Deflection	0.3in	1.2in	2.7in	4.7in



# LOAD AND DEFLECTION

## F32 I-Beam Truss

**Tubes:** 50mm (1.97in); **Wall Thickness:** 2mm (0.08in); **Braces:** 20mm (0.8in)

**Truss Size:** 290mm (11.41in); **Material:** EN-AW 6082 T6

	2m(6.65ft)	4m(13.12ft)	6m(19.68ft)	8m(26.24ft)	10m(32.81ft)
<b>Total Load</b>	2967lb	1464.19lb	1005.65lb	758.33lb	593.86lb
<b>Distrib. Load Per Ft.</b>	452.3lb	111.6lb	51.1lb	28.9lb	18.1lb
<b>Deflection</b>	0.1in	0.4in	0.9in	1.6in	2.5in
<b>Center Point Load</b>	1484lb	734.3lb	502.7lb	374.9lb	297.7lb
<b>Deflection</b>	0.1in	0.3in	0.7in	1.3in	2.1in

## F33 Triangle Truss

**Tubes:** 50mm (1.97in); **Wall Thickness:** 2mm (0.08in); **Braces:** 20mm (0.8in)

**Truss Size:** 290mm (11.41in) x 258mm (10.15in); **Material:** EN-AW 6082 T6

	2m(6.65ft)	4m(13.12ft)	6m(19.68ft)	8m(26.24ft)	10m(32.81ft)
<b>Total Load</b>	3354.78lb	1815.8lb	1216.22lb	905.52lb	682.24lb
<b>Distrib. Load Per Ft.</b>	511.4lb	138.4lb	61.8lb	34.3lb	20.8lb
<b>Deflection</b>	0.1in	0.5in	1.1in	1.9in	3in
<b>Center Point Load</b>	1678lb	908.5lb	610.8lb	454.2lb	339.6lb
<b>Deflection</b>	0.1in	0.4in	0.9in	1.6in	2.4in

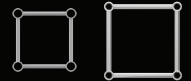
## F34 Square Truss

**Tubes:** 50mm (1.97in); **Wall Thickness:** 2mm (0.08in); **Braces:** 20mm (0.8in)

**Truss Size:** 290mm (11.41in) x 290mm (11.41in); **Material:** EN-AW 6082 T6

	2m(6.65ft)	4m(13.12ft)	6m(19.68ft)	8m(26.24ft)	10m(32.81ft)	12m(39.36ft)
<b>Total Load</b>	6269.39lb	4346.65lb	2944.13lb	2240.89lb	1742.21lb	1350lb
<b>Distrib. Load Per Ft.</b>	955.7lb	331.3lb	149.9lb	85.4lb	53.1lb	34.3lb
<b>Deflection</b>	0.1in	0.5in	1.3in	2.3in	3.6in	5in
<b>Center Point Load</b>	4231.4lb	2176.3lb	1477.4lb	1117.9lb	868.8lb	679.1lb
<b>Deflection</b>	0.1in	0.4in	1in	1.8in	2.9in	4.1in

The data and specifications in this chart is intended to be used for reference purposes and pertain to single horizontal truss spans with supports at each end. The load calculations in these charts are only applicable for static load in a controlled environment (indoors only). Global Truss America does not assume responsibility for user error or omissions. Truss structures may require additional structural analysis in order to fulfill all safety requirements and comply with all governing codes. Contact [support@globaltruss.com](mailto:support@globaltruss.com) to inquire about engineering services. Load data and specifications are subject to change without notice.



# LOAD AND DEFLECTION

## DT34P Square Truss

**Tubes:** 50mm (1.97in); **Wall Thickness:** 3mm (0.08in); **Braces:** 20mm (0.8in)

**Truss Size:** 290mm (11.41in) x 290mm (11.41in); **Material:** EN-AW 6082 T6

	2m(6.65ft)	4m(13.12ft)	6m(19.68ft)	8m(26.24ft)	10m(32.81ft)	12m(39.36ft)
<b>Total Load</b>	6260.2lb	6233.31lb	4550.01lb	3403.32lb	2667.45lb	2168lb
<b>Distrib. Load Per Ft.</b>	954.3lb	475.1lb	231.2lb	129.7lb	81.3lb	55.1lb
<b>Deflection</b>	0.1in	0.5in	1.3in	2.4in	3.7in	5.3in
<b>Center Point Load</b>	6260.2lb	3404.5lb	2277.8lb	1700.1lb	1338.4lb	1082.7lb
<b>Deflection</b>	0.1in	0.5in	1.1in	1.9in	3in	4.3in

## DT44P Square Truss

**Tubes:** 50mm (1.97in); **Wall Thickness:** 3mm (0.08in); **Braces:** 25mm (0.98in)

**Truss Size:** 400mm (15.74in) x 400mm (15.74in); **Material:** EN-AW 6082 T6

	2m(6.65ft)	4m(13.12ft)	6m(19.68ft)	8m(26.24ft)	10m(32.81ft)	12m(39.36ft)	14m(45.92ft)	16m(54.48ft)
<b>Total Load</b>	7957.93lb	5246.7lb	3623.1lb	2873.28lb	2336.07lb	1932.57lb	1602.5lb	1389.24lb
<b>Distrib. Load Per Ft.</b>	1213.1lb	399.9lb	184.1lb	109.5lb	71.2lb	49.1lb	34.9lb	25.5lb
<b>Deflection</b>	0.1in	0.3in	0.7in	1.4in	2.3in	3.3in	4.5in	5.9in
<b>Center Point Load</b>	3980lb	2624lb	1814.7lb	1439.9lb	1173.1lb	961.4lb	802.6lb	670.3lb
<b>Deflection</b>	0.05in	0.2in	0.6in	1.1in	1.8in	2.7in	3.7in	4.9in

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