



F14 Load Data

Main Tubes: 20mm (0.79") - Wall Thickness: 2mm - Alloy: EN-AW 6082 T6

Diagonal Braces: 6mm (0.24") – 100mm (3.94") x 100mm (3.94")

METERS	2m	4m	6m	8m	
FEET	6.56FT	13.12FT	19.68FT	26.24FT	
TOTAL LOAD	937.42 LBS	537.92 LBS	383.76 LBS	246.65 LBS	
DISTRIB. LOAD PER FT.	147.9 LBS	41 LBS	19.5 LBS	9.4 LBS	
DEFLECTION	0.5"	1.6"	3.6"	6.1"	
CENTER POINT LOAD	324.1 LBS	205.1 LBS	152.1 LBS	114.7 LBS	
DEFLECTION	0.3"	1"	2.4	4.7	

F23 Load Data

Main Tubes: 34mm (1.34") - Wall Thickness: 2mm - Alloy: EN-AW 6082 T6

Diagonal Braces: 8mm (0.31") – 220mm (8.66") x 220mm (8.66")

METERS	2m	3m	4m	6m	8m	10m
FEET	6.56FT	9.84FT	13.12FT	19.68FT	26.24FT	32.8FT
TOTAL LOAD	771.45 LBS	753.74 LBS	563.16 LBS	256.21 LBS	246.65 LBS	177.12 LBS
DISTRIB. LOAD PER FT.	117.6 LBS	76.6 LBS	43 LBS	18.1 LBS	9.4 LBS	5.4 LBS
DEFLECTION	0.1"	0.2"	0.4"	0.8"	1.4"	2.2"
CENTER POINT LOAD	577.7 LBS	377.1	280 LBS	178.6 LBS	123.5 LBS	90.4 LBS
DEFLECTION	0.1"	0.2"	0.3"	0.6"	1.2"	1.9"

F24 Load Data

Main Tubes: 34mm (1.34") - Wall Thickness: 2mm - Alloy: EN-AW 6082 T6

Diagonal Braces: 8mm (0.31") – 220mm (8.66") x 220mm (8.66")

METERS	2m	3m	4m	6m	8m	10m
FEET	6.56FT	9.84FT	13.12FT	19.68FT	26.24FT	32.8FT
TOTAL LOAD	890.84 LBS	886.58 LBS	881.66 LBS	860 LBS	616.64 LBS	462.48 LBS
DISTRIB. LOAD PER FT.	135.8 LBS	90.1 LBS	67.2 LBS	43.7 LBS	23.5 LBS	14.1 LBS
DEFLECTION	0"	0.1"	0.3"	0.9"	1.6"	2.6"
CENTER POINT LOAD	893 LBS	780.6 LBS	630.6 LBS	430 LBS	310.9 LBS	235.9 LBS
DEFLECTION	0.1"	0.2"	0.3"	0.7"	1.3"	2.1"

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 loads 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 to inquire about engineering services. Load data and specifications are subject to change without notice.



F31 Load Data

Pipe Diameter: 50mm (1.97") - Wall Thickness: 2mm (0.08") - Alloy: EN-AW 6082 T6 (AlMgSi1 T6)

Meters	1m	2m	3m	4m
Feet	3.28ft	6.56ft	9.84ft	13.12
Max Load	495.9	484.7	495.9	467
Distributed Load (lb/ft)	151.2	73.9	50.4	35.6
Deflection (inch)	0.2	1.4	4.9	11.4
Center Point Load	253.5	121.3	77.16	55.12
Deflection (inch)	0.2	0.3	1.2	2

F32 Load Data

Main Tubes: 50mm (1.97") - Wall Thickness: 2mm (0.08") - Alloy: EN-AW 6082 T6 (AlMgSi1 T6) - Diagonal Braces: 20mm (0.79") – 290mm (11.42") Diameter

Meters	2m	4m	6m	8m	10m	12m
Feet	6.56ft	13.12ft	19.68ft	26.24	32.8ft	39.36ft
Max Load	2050	2009.9	1336.2	991.8	836.4	657.3
Distributed Load (lb/ft)	312.5	153.2	67.9	37.8	25.5	16.7
Deflection (inch)	0.1	0.7	1.3	2.2	3.6	4.9
Center Point Load	1984	1102	749	551	441	352
Deflection (inch)	0.2	0.5	1.1	1.9	2.9	4.1

F33 Load Data

Main Tubes: 50mm (1.97") - Wall Thickness: 2mm (0.08") - Alloy: EN-AW 6082 T6 (AlMgSi1 T6) - Diagonal Braces: 20mm (0.79") – 290mm (11.42") x 290mm (11.42") Triangular

Meters	2m	4m	6m	8m	10m	12m
Feet	6.56ft	13.12ft	19.68ft	26.24	32.8ft	39.36ft
Max Load	3299.6	1456.3	1298.8	986.6	770.8	610.5
Distributed Load (lb/ft)	503	111	66	37.6	23.5	15.5
Deflection (inch)	0.2	0.5	1.1	2	3.2	4.5
Center Point Load	1322.8	915	540	451.9	352.7	297.6
Deflection (inch)	0.1	0.4	0.7	1.3	2	3.2

1 meter = 3.28ft (39.36")

1 kg(kilogram) = 2.2lbs

1 inch = 25.4mm

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Load data and specifications subject to change.



F34 Load Data

Main Tubes: 50mm (1.97") - Wall Thickness: 2mm (0.08") - Alloy: EN-AW 6082 T6 (AlMgSi1 T6) - Diagonal Braces: 20mm (0.79") – 290mm (11.42") x 290mm (11.42") Square

Meters	2m	4m	6m	8m	10m	12m
Feet	6.56ft	13.12ft	19.68ft	26.24	32.8ft	39.36ft
Max Load	5746.5	3861.2	2564.3	2044	1548.1	1326.4
Distributed Load (lb/ft)	876	294.3	130.3	77.9	47.2	33.7
Deflection (inch)	0.2	0.6	1.3	2.3	3.4	4.9
Center Point Load	4585	2204	1499	1102	882	705
Deflection (inch)	0.2	0.5	1.1	1.8	2.9	4.1

F44P Load Data

Main Tubes: 50mm (1.97") - Wall Thickness: 3mm (0.12") - Alloy: EN-AW 6082 T6 (AlMgSi1 T6) - Brace Diameter: 25mm (0.98") – 400mm (15.75") x 400mm (15.75")

Meters	2m	4m	6m	8m	10m	12m	14m	16m
Feet	6.56ft	13.12ft	19.68ft	26.24	32.8ft	39.36ft	45.92ft	52.48ft
Max Load	4407.6	5553.6	3967.4	2891.6	2732.2	2113.6	1726.5	1553.4
Distributed Load (lb/ft)	671.9	423.3	201.6	110.2	83.3	53.7	37.6	29.6
Deflection (inch)	0.1	0.46	1	1.6	2.9	4	5.4	7.22
Center Point Load	4409	2866	1940	1455	1322	1102	881.8	749.6
Deflection (inch)	0.1	0.4	0.7	1.3	2.3	3.4	4.6	5.9

1 meter = 3.28ft (39.36")

1 kg(kilogram) = 2.2lbs

1 inch = 25.4mm

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Load data and specifications subject to change.