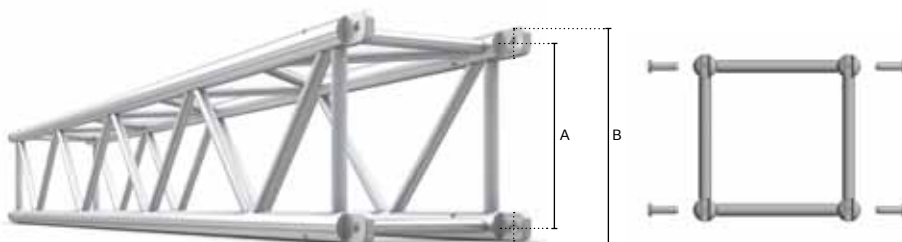


# 4GS-35 & 4GS-50

- Medium-duty truss range
- Wide range of standard lengths & accessories
- 4GS-35 with great free-span & loading characteristics (up to 20m / 65.61 ft)
- 4GS-50 with great free-span & loading characteristics (up to 30m / 98.43 ft)
- All components supplied complete with connection accessories
- Compatible with 200/400/500/600 series cell clamps
- Powder coat colour finish available on request

## 4GS-35



### 4GS-35

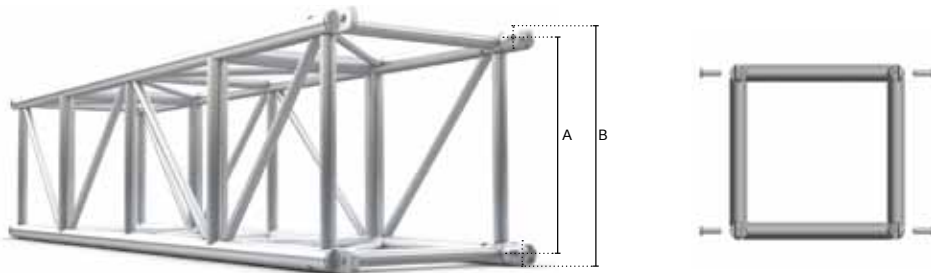
	Main Chords	Diagonals	Alloy	A	B	Connection
mm in	48x4.5 (1.89x0.18)	25x3 (0.98x0.12)	EN - AW 6082 T6	299 (11.77)	347 (13.66)	Fork/Pin

### STANDARD LENGTHS AND WEIGHTS AVAILABLE

	m (ft)	0.39 (1.28)	0.67 (2.18)	1.24 (4.08)	1.82 (5.97)	2.40 (7.87)	3.00 (9.84)	3.56 (11.66)	4.14 (13.58)
4GS-35	kg (lbs)	8.00 (17.64)	8.70 (19.36)	15.50 (34.17)	19.60 (43.28)	26.30 (57.98)	30.50 (67.42)	35.80 (78.99)	41.20 (90.99)

Connection material (pins/clips/couplers) and packaging are not included in above weights

## 4GS-50



### 4GS-50

	Main Chords	Diagonals	Horizontal Braces	Alloy	A	B	Connection
mm in	48x4.5 (1.89x0.18)	25x3 (0.98x0.12)	48x3 (1.89x0.12)	EN - AW 6082 T6	452 (17.80)	500 (19.69)	Fork/Pin

### STANDARD LENGTHS AND WEIGHTS AVAILABLE

	m (ft)	0.50 (1.64)	1.00 (3.28)	2.00 (6.56)	3.00 (9.840)	4.00 (13.12)
4GS-50	kg (lbs)	9.60 (21.3)	15.10 (33.29)	27.40 (60.54)	40.50 (89.28)	52.10 (114.99)

Connection material (pins/clips/couplers) and packaging are not included in above weights

### 4GS-35

LOADING CHART

Span	m (ft)	4.00 (13.12)	6.00 (19.69)	8.00 (26.25)	10.00 (32.81)	12.00 (39.37)	14.00 (45.93)
Centre Point Load (CPL)	kg (lbs)	2938.80 (6478.94)	1942.40 (4282.25)	1439.10 (3172.67)	1133.10 (2498.05)	925.80 (2041.04)	774.80 (1708.14)
Deflection	mm (in)	10.00 (0.39)	22.50 (0.89)	40.20 (1.58)	63.20 (2.49)	91.70 (3.61)	125.90 (4.96)
Third Point Load (TPL)	kg (lbs)	2204.10 (4859.20)	1456.80 (3211.69)	1079.30 (2379.45)	849.90 (1873.71)	694.30 (1530.67)	581.10 (1281.10)
Deflection	mm (in)	12.70 (0.50)	28.60 (1.13)	51.00 (2.01)	79.80 (3.14)	115.00 (4.53)	156.90 (6.18)
Quarter Point Load (QPL)	kg (lbs)	1469.40 (3239.47)	971.20 (2141.13)	719.60 (1586.44)	566.60 (1249.14)	462.90 (1020.52)	387.40 (854.07)
Deflection	mm (in)	11.80 (0.46)	26.70 (1.05)	47.50 (1.87)	74.40 (2.93)	107.50 (4.23)	146.80 (5.78)
Fifth Point Load (FPL)	kg (lbs)	1210.10 (2667.81)	809.30 (1784.20)	599.60 (1321.89)	472.10 (1040.80)	385.70 (850.32)	322.80 (711.65)
Deflection	mm (in)	12.40 (0.49)	28.30 (1.11)	50.30 (1.98)	78.70 (3.10)	113.50 (4.47)	154.90 (6.10)
Uniformly Distributed Load (UDL)	kg (lbs)	1210.10 (813.15)	647.50 (435.10)	359.80 (241.77)	226.60 (152.27)	154.30 (103.68)	110.70 (74.39)
Deflection	mm (in)	10.30 (0.41)	28.00 (1.10)	49.90 (1.96)	78.10 (3.07)	112.70 (4.44)	153.80 (6.06)

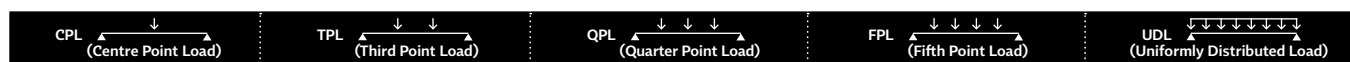
Span	16.00 (52.49)	18.00 (59.06)
Centre Point Load (CPL)	659.00 (1452.84)	566.70 (1249.36)
Deflection	166.00 (6.54)	212.30 (8.36)
Third Point Load (TPL)	494.30 (1089.74)	425.00 (936.96)
Deflection	205.40 (8.09)	260.60 (10.26)
Quarter Point Load (QPL)	329.50 (726.42)	283.40 (624.79)
Deflection	192.60 (7.58)	244.90 (9.64)
Fifth Point Load (FPL)	274.60 (605.39)	236.10 (520.51)
Deflection	202.80 (7.98)	257.50 (10.14)
Uniformly Distributed Load (UDL)	82.40 (55.37)	63.00 (42.33)
Deflection	201.40 (7.93)	255.70 (10.07)

### 4GS-50

LOADING CHART

Span	m (ft)	4.00 (13.12)	6.00 (19.69)	8.00 (26.25)	10.00 (32.81)	12.00 (39.37)	14.00 (45.93)
Centre Point Load (CPL)	kg (lbs)	3065.90 (6759.14)	2945.50 (6493.71)	2187.80 (4823.27)	1728.20 (3810.02)	1417.80 (3125.71)	1192.60 (2629.23)
Deflection	mm (in)	4.60 (0.18)	15.00 (0.59)	26.70 (1.05)	41.90 (1.65)	60.70 (2.39)	83.20 (3.28)
Third Point Load (TPL)	kg (lbs)	1533.00 (3379.68)	1520.80 (3352.79)	1508.60 (3325.89)	1296.20 (2857.63)	1063.40 (2344.39)	894.50 (1972.03)
Deflection	mm (in)	3.90 (0.15)	13.20 (0.52)	31.20 (1.23)	53.00 (2.09)	76.50 (3.01)	104.20 (4.10)
Quarter Point Load (QPL)	kg (lbs)	1022.00 (2253.12)	1013.80 (2235.04)	1005.70 (2217.19)	864.10 (1905.01)	708.90 (1562.86)	596.30 (1314.61)
Deflection	mm (in)	3.60 (0.14)	12.30 (0.48)	29.10 (1.15)	49.40 (1.94)	71.40 (2.81)	97.40 (3.83)
Fifth Point Load (FPL)	kg (lbs)	766.50 (1689.84)	760.40 (1676.39)	754.30 (1662.94)	720.10 (1587.55)	590.80 (1302.49)	496.90 (1095.48)
Deflection	mm (in)	3.50 (0.14)	11.70 (0.46)	27.80 (1.09)	52.30 (2.06)	75.50 (2.97)	102.90 (4.05)
Uniformly Distributed Load (UDL)	kg (lbs)	766.50 (515.06)	506.90 (340.62)	377.10 (253.40)	299.30 (201.12)	236.30 (158.79)	170.40 (114.50)
Deflection	mm (in)	2.90 (0.11)	9.80 (0.39)	23.10 (0.91)	45.20 (1.78)	74.90 (2.95)	102.10 (4.02)

Span	16.00 (52.49)	18.00 (59.06)	20.00 (65.62)
Centre Point Load (CPL)	1020.70 (2250.26)	884.20 (1949.33)	772.60 (1703.29)
Deflection	109.50 (4.31)	139.80 (5.50)	174.30 (6.86)
Third Point Load (TPL)	765.50 (1687.64)	663.20 (1462.10)	579.50 (1277.58)
Deflection	136.40 (5.37)	173.00 (6.81)	214.00 (8.43)
Quarter Point Load (QPL)	510.30 (1125.02)	442.10 (974.66)	386.30 (851.64)
Deflection	127.70 (5.03)	162.20 (6.39)	201.10 (7.92)
Fifth Point Load (FPL)	425.30 (937.62)	368.40 (812.18)	321.90 (709.67)
Deflection	134.70 (5.30)	170.90 (6.73)	211.50 (8.33)
Uniformly Distributed Load (UDL)	127.60 (85.74)	98.20 (65.99)	77.30 (51.94)
Deflection	133.70 (5.26)	169.70 (6.68)	210.10 (8.27)



All truss loading calculations are based on:

Truss supported or suspended at both ends • Static loadings only • Loads applied in the node points • Self-weight of the truss is included in all listed load capacities • Spans made of different truss lengths • Interaction of bending moment and shear force at connector is considered • Structural analysis based on EN 1999 • All loading data should be multiplied by 0.85 to comply with BS 7905-2 and ANSI E1.2-2006 • For any other application, or in case of an assembled structure, contact Milos or a structural engineer • Safety factors used: self-weight 1.35 / variable loads 1.5