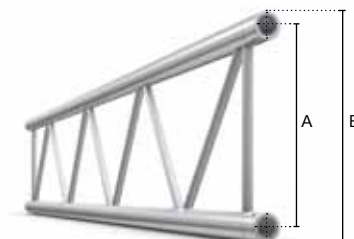


M390 Regular

- Certified 50mm tube M390 series modular truss range
- Interior & exterior applications
- Fast connection for quick, simple and secure assembly
- Great free-span & loading characteristics (up to 20m / 65.61 ft)
- Custom lengths, junctions & curves available
- Powder coat colour finish available on request
- Connection kit supplied with every truss length & junction
- Compatible with 200/400/500/600 series cell clamps

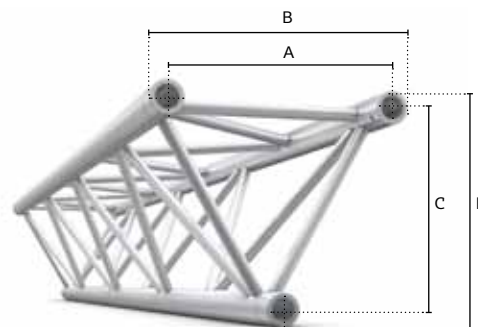
DUO



M390

	Main Chords	Diagonals	Alloy	A	B	Coupler
BTK	50x2 (2x0.08)	20x2 (0.78x0.08)	EN - AW 6082 T6	340 (13.38)	390 (15.35)	CCB
BTKF	50x2 (2x0.08)	20x2 (0.78x0.08)	EN - AW 6082 T6	340 (13.38)	390 (15.35)	CCF

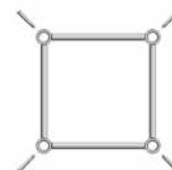
TRIO



M390

	Main Chords	Diagonals	Alloy	A	B	C	D	Coupler
STK	50x2 (2x0.08)	20x2 (0.78x0.08)	EN - AW 6082 T6	340 (13.38)	390 (15.35)	294 (11.57)	344 (13.54)	CCB
STKF	50x2 (2x0.08)	20x2 (0.78x0.08)	EN - AW 6082 T6	340 (13.38)	390 (15.35)	294 (11.57)	344 (13.54)	CCF

QUATRO



M390

	Main Chords	Diagonals	Alloy	A	B	Coupler
QTK	50x2 (2x0.08)	20x2 (0.78x0.08)	EN - AW 6082 T6	340 (13.38)	390 (15.35)	CCB
QTKF	50x2 (2x0.08)	20x2 (0.78x0.08)	EN - AW 6082 T6	340 (13.38)	390 (15.35)	CCF

STANDARD LENGTHS AND WEIGHTS AVAILABLE

	m (ft)	0.50 (1.64)	1.00 (3.28)	1.50 (4.92)	2.00 (6.56)	2.50 (8.20)	3.00 (9.84)	4.00 (13.12)	5.00 (16.41)
DUO	kg (lbs)	1.60 (3.57)	2.60 (5.87)	3.70 (8.16)	4.70 (10.43)	5.70 (12.72)	6.80 (14.99)	8.80 (19.56)	10.90 (24.12)
TRIO	kg (lbs)	3.10 (6.84)	4.70 (10.53)	7.10 (15.65)	8.80 (19.04)	10.10 (22.27)	12.90 (22.48)	16.00 (35.36)	19.70 (43.63)
QUATRO	kg (lbs)	4.10 (9.04)	6.30 (14.04)	9.10 (20.06)	11.50 (25.35)	13.90 (30.64)	16.30 (36.12)	21.50 (47.4)	26.30 (58.18)

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

M390 DUO

LOADING CHART

Span	m (ft)	3.00 (9.84)	4.00 (13.12)	5.00 (16.40)	6.00 (19.69)	7.00 (22.97)	8.00 (26.25)	9.00 (29.53)
Point load	kg (lbs)	998.00 (2200.21)	820.50 (1808.89)	654.30 (1442.48)	543.20 (1197.55)	463.40 (1021.62)	403.40 (889.34)	356.40 (785.73)
Deflection	mm (in)	4.50 (0.18)	8.80 (0.35)	13.70 (0.54)	19.80 (0.78)	27.00 (1.06)	35.30 (1.39)	44.80 (1.76)
Two point load	kg (lbs)	625.50 (1378.99)	529.00 (1166.24)	471.00 (1038.38)	407.40 (898.16)	347.60 (766.33)	302.50 (666.90)	267.30 (589.29)
Deflection	mm (in)	4.80 (0.19)	9.60 (0.38)	16.80 (0.66)	25.20 (0.99)	34.30 (1.35)	44.80 (1.76)	56.80 (2.24)
Three point load	kg (lbs)	417.00 (919.33)	398.00 (877.44)	327.20 (721.35)	271.60 (598.77)	231.70 (510.81)	201.70 (444.67)	178.20 (392.86)
Deflection	mm (in)	4.50 (0.18)	10.10 (0.40)	16.30 (0.64)	23.40 (0.92)	31.90 (1.26)	41.80 (1.65)	52.90 (2.08)
Four point load	kg (lbs)	312.70 (689.38)	312.20 (688.28)	272.60 (600.98)	226.30 (498.91)	193.10 (425.71)	168.10 (370.60)	148.50 (327.39)
Deflection	mm (in)	4.30 (0.17)	10.10 (0.40)	17.30 (0.68)	24.90 (0.98)	33.80 (1.33)	44.20 (1.74)	56.00 (2.20)
Distrib. loading	kg (lbs)	417.00 (280.21)	312.20 (209.79)	249.30 (167.52)	181.10 (121.69)	132.40 (88.97)	100.80 (67.73)	79.20 (53.22)
Deflection	mm (in)	3.50 (0.14)	8.40 (0.33)	16.30 (0.64)	24.70 (0.97)	33.60 (1.32)	43.90 (1.73)	55.60 (2.19)

DUO figures are based on use in vertical mode and stabilized every 1m

M390 TRIO

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)	16.00 (52.49)
Point load	kg (lbs)	705.10 (1554.48)	462.20 (1018.98)	338.50 (746.26)	262.40 (578.49)	210.10 (463.19)	171.40 (377.87)	141.20 (311.29)
Deflection	mm (in)	7.60 (0.30)	17.20 (0.68)	30.80 (1.21)	48.70 (1.92)	71.00 (2.80)	98.20 (3.87)	130.60 (5.14)
Two point load	kg (lbs)	528.80 (1165.80)	346.70 (764.34)	253.90 (559.75)	196.80 (433.87)	157.50 (347.23)	128.50 (283.29)	105.90 (233.47)
Deflection	mm (in)	9.70 (0.38)	21.80 (0.86)	38.80 (1.53)	60.70 (2.39)	87.70 (3.45)	119.80 (4.72)	157.10 (6.19)
Three point load	kg (lbs)	352.50 (777.13)	231.10 (509.49)	169.20 (373.02)	131.20 (289.25)	105.00 (231.49)	85.70 (188.94)	70.60 (155.65)
Deflection	mm (in)	9.00 (0.35)	20.30 (0.80)	36.20 (1.43)	56.80 (2.24)	82.30 (3.24)	112.80 (4.44)	148.50 (5.85)
Four point load	kg (lbs)	293.80 (647.72)	192.60 (424.61)	141.00 (310.85)	109.30 (240.96)	87.50 (192.90)	71.40 (157.41)	58.80 (129.63)
Deflection	mm (in)	9.50 (0.37)	21.50 (0.85)	38.20 (1.50)	59.90 (2.36)	86.60 (3.41)	118.40 (4.66)	155.40 (6.12)
Distrib. loading	kg (lbs)	352.50 (236.87)	154.10 (103.55)	84.60 (56.85)	52.50 (35.28)	35.00 (23.52)	24.50 (16.46)	17.60 (11.83)
Deflection	mm (in)	9.40 (0.37)	21.30 (0.84)	38.00 (1.50)	59.50 (2.34)	86.00 (3.39)	117.60 (4.63)	154.50 (6.08)

TRIO figures are based on use in apex up/down orientation

M390 QUATRO

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)	16.00 (52.49)
Point load	kg (lbs)	1491.00 (3287.09)	1083.30 (2388.26)	802.70 (1769.65)	632.10 (1393.54)	516.50 (1138.69)	432.30 (953.06)	367.80 (810.86)
Deflection	mm (in)	8.00 (0.31)	19.80 (0.78)	35.40 (1.39)	55.60 (2.19)	80.70 (3.18)	110.70 (4.36)	146.00 (5.75)
Two point load	kg (lbs)	946.00 (2085.57)	747.00 (1646.85)	602.00 (1327.18)	474.10 (1045.21)	387.40 (854.07)	324.20 (714.74)	275.80 (608.03)
Deflection	mm (in)	8.60 (0.34)	23.20 (0.91)	44.90 (1.77)	70.20 (2.76)	101.20 (3.98)	138.10 (5.44)	180.70 (7.11)
Three point load	kg (lbs)	713.00 (1571.89)	541.70 (1194.24)	401.30 (884.71)	316.00 (696.66)	258.20 (569.23)	216.10 (476.42)	183.90 (405.43)
Deflection	mm (in)	9.10 (0.36)	23.50 (0.93)	41.80 (1.65)	65.50 (2.58)	94.60 (3.72)	129.20 (5.09)	169.40 (6.67)
Four point load	kg (lbs)	586.00 (1291.91)	451.40 (995.17)	334.50 (737.45)	263.40 (580.70)	215.20 (474.43)	180.10 (397.05)	153.20 (337.75)
Deflection	mm (in)	9.50 (0.37)	24.90 (0.98)	44.30 (1.74)	69.30 (2.73)	99.90 (3.93)	136.30 (5.37)	178.50 (7.03)
Distrib. loading	kg (lbs)	623.30 (418.84)	361.10 (242.65)	200.70 (134.86)	126.40 (84.94)	86.10 (57.86)	61.80 (41.53)	46.00 (30.91)
Deflection	mm (in)	8.40 (0.33)	24.70 (0.97)	43.90 (1.73)	68.70 (2.70)	99.20 (3.91)	135.30 (5.33)	177.20 (6.98)

Point load



Two point load



Three point load



Four point load



Distributed point load



All truss loading calculations and TUV certifications are based on:

Truss supported or suspended at both ends • Static loadings only • Loads applied in the node points • Included self weight of the trusses • Spans made of different truss length • Interaction of bending moment and shear force at connector • Structural calculations based on DIN EN 1999-1-1 and DIN EN 1999-1-1/A2 made in 2014 • To comply with BS 7905-2 / ANSI E1.2-2006 / CWA 15902-2 all loading data should be multiplied by 0.85 • For any other application or in case of an assembled structure, contact Milos or a structural engineer • Safety factors used – self weight 1.35 / loading 1.5