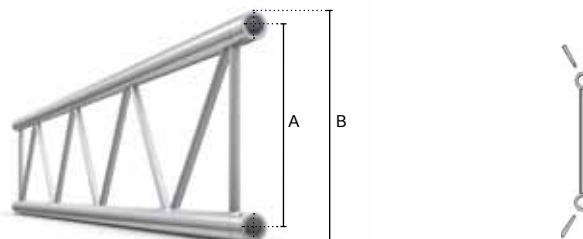


# M390 Regular

- 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

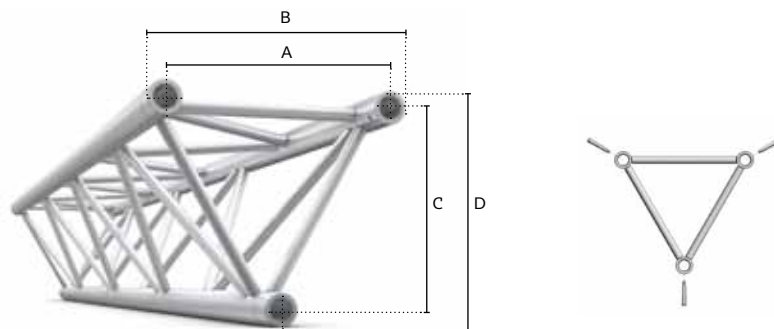
## DUO



### M390

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

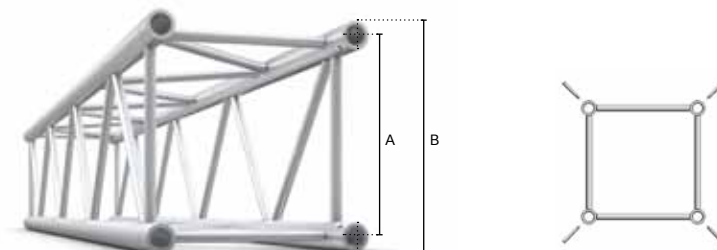
## TRIO



### M390

	Main Chords	Diagonals	Alloy	A	B	C	D	Coupler
<b>STK</b>	50x2 (2x0.08)	20x2 (0.78x0.08)	EN - AW 6082 T6	340 (13.38)	390 (15.35)	294 (11.57)	344 (13.54)	CCB
<b>STKF</b>	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
<b>QTK</b>	50x2 (2x0.08)	20x2 (0.78x0.08)	EN - AW 6082 T6	340 (13.38)	390 (15.35)	CCB
<b>QTKF</b>	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)
<b>DUO</b>	kg (lbs)	1.60 (3.57)	2.70 (5.95)	3.70 (8.16)	4.70 (10.43)	5.80 (12.78)	6.80 (14.99)	8.90 (19.62)	10.90 (24.12)
<b>TRIO</b>	kg (lbs)	3.10 (6.84)	4.80 (10.58)	7.10 (15.65)	8.50 (18.73)	10.10 (22.27)	12.90 (22.48)	16.20 (35.71)	19.80 (43.65)
<b>QUATRO</b>	kg (lbs)	4.10 (9.04)	6.40 (14.10)	9.10 (20.06)	11.70 (25.79)	13.90 (30.64)	17.00 (37.47)	21.40 (47.17)	26.40 (58.20)

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)
<b>Centre Point Load (CPL)</b>	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)
<b>Deflection</b>	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)
<b>Third Point Load (TPL)</b>	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)
<b>Deflection</b>	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)
<b>Quarter Point Load (QPL)</b>	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)
<b>Deflection</b>	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)
<b>Fifth Point Load (FPL)</b>	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)
<b>Deflection</b>	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)
<b>Uniformly Distributed Load (UDL)</b>	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)
<b>Deflection</b>	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)	16.00 (52.49)	20.00 (65.61)
<b>Centre Point Load (CPL)</b>	kg (lbs)	705.10 (1554.48)	462.20 (1018.98)	338.50 (746.26)	262.40 (578.49)	210.10 (463.19)	141.20 (311.29)	96.10 (211.86)
<b>Deflection</b>	mm (in)	7.60 (0.30)	17.20 (0.68)	30.80 (1.21)	48.70 (1.92)	71.00 (2.80)	130.60 (5.14)	212.70 (8.37)
<b>Third Point Load (TPL)</b>	kg (lbs)	528.80 (1165.80)	346.70 (764.34)	253.90 (559.75)	196.80 (433.87)	157.50 (347.23)	105.90 (233.47)	72.10 (158.95)
<b>Deflection</b>	mm (in)	9.70 (0.38)	21.80 (0.86)	38.80 (1.53)	60.70 (2.39)	87.70 (3.45)	157.10 (6.19)	248.00 (9.76)
<b>Quarter Point Load (QPL)</b>	kg (lbs)	352.50 (777.13)	231.10 (509.49)	169.20 (373.02)	131.20 (289.25)	105.00 (231.49)	70.60 (155.65)	48.00 (105.82)
<b>Deflection</b>	mm (in)	9.00 (0.35)	20.30 (0.80)	36.20 (1.43)	56.80 (2.24)	82.30 (3.24)	148.50 (5.85)	236.50 (9.31)
<b>Fifth Point Load (FPL)</b>	kg (lbs)	293.80 (647.72)	192.60 (424.61)	141.00 (310.85)	109.30 (240.96)	87.50 (192.90)	58.80 (129.63)	40.00 (88.18)
<b>Deflection</b>	mm (in)	9.50 (0.37)	21.50 (0.85)	38.20 (1.50)	59.90 (2.36)	86.60 (3.41)	155.40 (6.12)	245.70 (9.67)
<b>Uniformly Distributed Load (UDL)</b>	kg (lbs)	352.50 (236.87)	154.10 (103.55)	84.60 (56.85)	52.50 (35.28)	35.00 (23.52)	17.60 (11.83)	9.60 (21.16)
<b>Deflection</b>	mm (in)	9.40 (0.37)	21.30 (0.84)	38.00 (1.50)	59.50 (2.34)	86.00 (3.39)	154.50 (6.08)	244.40 (9.62)

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)	16.00 (52.49)	20.00 (65.61)
<b>Centre Point Load (CPL)</b>	kg (lbs)	1491.00 (3287.09)	1083.30 (2388.26)	802.70 (1769.65)	632.10 (1393.54)	516.50 (1138.69)	367.80 (810.86)	274.10 (604.28)
<b>Deflection</b>	mm (in)	8.00 (0.31)	19.80 (0.78)	35.40 (1.39)	55.60 (2.19)	80.70 (3.18)	146.00 (5.75)	233.40 (9.18)
<b>Third Point Load (TPL)</b>	kg (lbs)	946.00 (2085.57)	747.00 (1646.85)	602.00 (1327.18)	474.10 (1045.21)	387.40 (854.07)	275.80 (608.03)	205.50 (453.04)
<b>Deflection</b>	mm (in)	8.60 (0.34)	23.20 (0.91)	44.90 (1.77)	70.20 (2.76)	101.20 (3.98)	180.70 (7.11)	283.90 (11.17)
<b>Quarter Point Load (QPL)</b>	kg (lbs)	713.00 (1571.89)	541.70 (1194.24)	401.30 (884.71)	316.00 (696.66)	258.20 (569.23)	183.90 (405.43)	137.00 (302.03)
<b>Deflection</b>	mm (in)	9.10 (0.36)	23.50 (0.93)	41.80 (1.65)	65.50 (2.58)	94.60 (3.72)	169.40 (6.67)	267.40 (10.52)
<b>Fifth Point Load (FPL)</b>	kg (lbs)	586.00 (1291.91)	451.40 (995.17)	334.50 (737.45)	263.40 (580.70)	215.20 (474.43)	153.20 (337.75)	114.20 (251.76)
<b>Deflection</b>	mm (in)	9.50 (0.37)	24.90 (0.98)	44.30 (1.74)	69.30 (2.73)	99.90 (3.93)	178.50 (7.03)	280.60 (11.04)
<b>Uniformly Distributed Load (UDL)</b>	kg (lbs)	623.30 (418.84)	361.10 (242.65)	200.70 (134.86)	126.40 (84.94)	86.10 (57.86)	46.00 (30.91)	27.40 (60.40)
<b>Deflection</b>	mm (in)	8.40 (0.33)	24.70 (0.97)	43.90 (1.73)	68.70 (2.70)	99.20 (3.91)	177.20 (6.98)	278.80 (10.97)

CPL	TPL	QPL	FPL	UDL
(Centre Point Load)	(Third Point Load)	(Quarter Point Load)	(Fifth Point Load)	(Uniformly Distributed Load)
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				