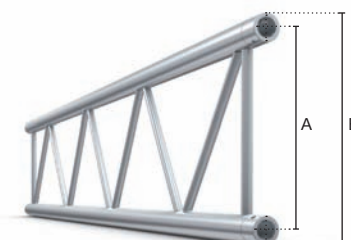


M390 Heavy-Duty

- Certified 48mm tube heavy-duty M390 series 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
- Connection kit supplied with every truss length & junction
- Compatible with 200/400/500/600 series cell clamps
- Powder coat colour finish available on request

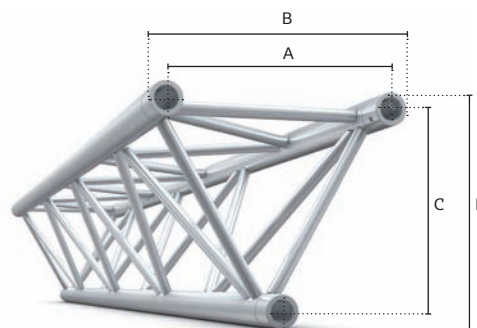
DUO



M390L

		Main Chords	Diagonals	Alloy	A	B	Coupler
BTL	mm in	48x3 (1.89x0.12)	20x2 (0.78x0.08)	EN - AW 6082 T6	340 (13.39)	388 (15.28)	CCB
BTLF		48x3 (1.89x0.12)	20x2 (0.78x0.08)	EN - AW 6082 T6	340 (13.39)	388 (15.28)	CCF

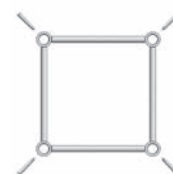
TRIO



M390L

		Main Chords	Diagonals	Alloy	A	B	C	D	Coupler
STL	mm in	48x3 (1.89x0.12)	20x2 (0.78x0.08)	EN - AW 6082 T6	340 (13.39)	388 (15.28)	294 (11.57)	342 (13.46)	CCB
STLF		48x3 (1.89x0.12)	20x2 (0.78x0.08)	EN - AW 6082 T6	340 (13.39)	388 (15.28)	294 (11.57)	342 (13.46)	CCF

QUATRO



M390L

		Main Chords	Diagonals	Alloy	A	B	Coupler
QTL	mm in	48x3 (1.89x0.12)	20x2 (0.78x0.08)	EN - AW 6082 T6	340 (13.39)	388 (15.28)	CCB
QTLF		48x3 (1.89x0.12)	20x2 (0.78x0.08)	EN - AW 6082 T6	340 (13.39)	388 (15.28)	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)	1.90 (4.18)	3.30 (7.28)	4.50 (10.01)	6.00 (13.23)	7.30 (16.09)	8.60 (19.05)	11.40 (25.13)	14.10 (31.11)
TRIO	kg (lbs)	3.40 (7.49)	5.50 (12.12)	7.90 (17.46)	10.50 (23.15)	12.70 (27.99)	15.10 (33.28)	20.50 (45.20)	25.00 (55.12)
QUATRO	kg (lbs)	4.50 (9.92)	7.60 (16.76)	10.80 (23.81)	14.00 (30.87)	17.10 (37.7)	20.30 (44.75)	26.40 (58.2)	33.00 (72.75)

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

M390L DUO

LOADING CHART

Duo loading data are based on use in vertical orientation with lateral stabilisation of both the top and bottom main chord every 1m¹

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)
Centre Point Load (CPL)	kg (lbs)	1249.30 (2754.23)	1154.60 (2545.45)	921.10 (2030.68)	765.00 (1686.53)	653.00 (1439.62)	568.80 (1253.99)	502.90 (1108.70)
Deflection	mm (in)	4.00 (0.16)	8.80 (0.35)	13.70 (0.54)	19.80 (0.78)	27.00 (1.06)	35.30 (1.39)	44.80 (1.76)
Third Point Load (TPL)	kg (lbs)	624.60 (1377.01)	623.20 (1373.92)	621.80 (1370.83)	573.70 (1264.79)	489.80 (1079.82)	426.60 (940.49)	377.20 (831.58)
Deflection	mm (in)	3.40 (0.13)	8.10 (0.32)	15.80 (0.62)	25.20 (0.99)	34.40 (1.35)	44.90 (1.77)	56.80 (2.24)
Quarter Point Load (QPL)	kg (lbs)	416.40 (918.00)	415.50 (916.02)	414.50 (913.81)	382.50 (843.27)	326.50 (719.81)	284.40 (626.99)	251.40 (554.24)
Deflection	mm (in)	3.20 (0.13)	7.50 (0.30)	14.70 (0.58)	23.50 (0.93)	32.00 (1.26)	41.80 (1.65)	52.90 (2.08)
Fifth Point Load (FPL)	kg (lbs)	312.30 (688.50)	311.60 (686.96)	310.90 (685.42)	310.20 (683.87)	272.10 (599.88)	237.00 (522.49)	209.50 (461.87)
Deflection	mm (in)	3.00 (0.12)	7.20 (0.28)	14.00 (0.55)	24.20 (0.95)	33.90 (1.33)	44.30 (1.74)	56.10 (2.21)
Uniformly Distributed Load (UDL)	kg/m (lbs/ft)	416.40 (279.81)	311.60 (209.39)	248.70 (167.12)	206.80 (138.96)	176.80 (118.80)	142.20 (95.55)	111.70 (75.06)
Deflection	mm (in)	2.50 (0.10)	5.90 (0.23)	11.60 (0.46)	20.10 (0.79)	31.90 (1.26)	43.90 (1.73)	55.60 (2.19)

M390L TRIO

LOADING CHART

Span	m (ft)	6.00 (19.69)	8.00 (26.25)	10.00 (32.81)	12.00 (39.37)	14.00 (45.93)	16.00 (52.49)	20.00 (65.61)
Centre Point Load (CPL)	kg (lbs)	654.90 (1443.81)	482.50 (1063.73)	377.10 (831.36)	305.20 (672.85)	252.40 (556.45)	211.50 (466.28)	151.40 (333.77)
Deflection	mm (in)	17.20 (0.68)	30.70 (1.21)	48.40 (1.91)	70.40 (2.77)	97.00 (3.82)	128.40 (5.06)	207.10 (8.15)
Third Point Load (TPL)	kg (lbs)	491.20 (1082.91)	361.90 (797.85)	282.80 (623.47)	228.90 (504.64)	189.30 (417.33)	158.60 (349.65)	113.50 (250.22)
Deflection	mm (in)	21.80 (0.86)	38.80 (1.53)	60.70 (2.39)	87.60 (3.45)	119.60 (4.71)	156.70 (6.17)	246.70 (9.71)
Quarter Point Load (QPL)	kg (lbs)	327.50 (722.01)	241.30 (531.97)	188.50 (415.57)	152.60 (336.43)	126.20 (278.22)	105.80 (233.25)	75.70 (166.88)
Deflection	mm (in)	20.30 (0.80)	36.20 (1.43)	56.70 (2.23)	82.00 (3.23)	112.20 (4.42)	147.50 (5.81)	233.80 (9.20)
Fifth Point Load (FPL)	kg (lbs)	272.90 (601.64)	201.00 (443.13)	157.10 (346.35)	127.10 (280.21)	105.20 (231.93)	88.10 (194.23)	63.10 (139.11)
Deflection	mm (in)	21.50 (0.85)	38.30 (1.51)	59.90 (2.36)	86.50 (3.41)	118.10 (4.65)	154.90 (6.10)	244.20 (9.61)
Uniformly Distributed Load (UDL)	kg/m (lbs/ft)	218.30 (146.69)	120.60 (81.04)	75.40 (50.67)	50.90 (34.20)	36.10 (24.26)	26.40 (17.74)	15.10 (33.28)
Deflection	mm (in)	21.30 (0.84)	38.00 (1.50)	59.50 (2.34)	85.90 (3.38)	117.30 (4.62)	153.90 (6.06)	242.70 (9.55)

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

M390L QUATRO

LOADING CHART

Span	m (ft)	6.00 (19.69)	8.00 (26.25)	10.00 (32.81)	12.00 (39.37)	14.00 (45.93)	16.00 (52.49)	20.00 (65.61)
Centre Point Load (CPL)	kg (lbs)	1526.90 (3366.23)	1133.50 (2498.94)	894.70 (1972.47)	733.30 (1616.65)	616.10 (1358.27)	526.60 (1160.95)	397.10 (875.45)
Deflection	mm (in)	19.80 (0.78)	35.40 (1.39)	55.60 (2.19)	80.50 (3.17)	110.30 (4.34)	145.30 (5.72)	231.50 (9.11)
Third Point Load (TPL)	kg (lbs)	1054.00 (2323.67)	850.10 (1874.15)	671.00 (1479.30)	550.00 (1212.54)	462.10 (1018.75)	394.90 (870.60)	297.80 (656.53)
Deflection	mm (in)	23.20 (0.91)	44.90 (1.77)	70.20 (2.76)	101.30 (3.99)	138.10 (5.44)	180.70 (7.11)	283.60 (11.16)
Quarter Point Load (QPL)	kg (lbs)	763.50 (1683.23)	566.70 (1249.36)	447.40 (986.35)	366.70 (808.43)	308.10 (679.24)	263.30 (580.48)	198.60 (437.83)
Deflection	mm (in)	23.50 (0.93)	41.80 (1.65)	65.50 (2.58)	94.50 (3.72)	129.10 (5.08)	169.20 (6.66)	266.60 (10.49)
Fifth Point Load (FPL)	kg (lbs)	618.90 (1364.44)	472.30 (1041.24)	372.80 (821.88)	305.60 (673.73)	256.70 (565.93)	219.40 (483.69)	165.50 (364.86)
Deflection	mm (in)	24.20 (0.95)	44.30 (1.74)	69.30 (2.73)	99.90 (3.93)	136.30 (5.37)	178.40 (7.02)	280.20 (11.03)
Uniformly Distributed Load (UDL)	kg/m (lbs/ft)	412.60 (277.25)	283.40 (190.44)	178.90 (120.22)	122.20 (82.11)	88.00 (59.13)	65.80 (44.22)	39.70 (87.52)
Deflection	mm (in)	20.10 (0.79)	43.90 (1.73)	68.80 (2.71)	99.20 (3.91)	135.30 (5.33)	177.10 (6.97)	278.40 (10.96)

 CPL (Centre Point Load)	 TPL (Third Point Load)	 QPL (Quarter Point Load)	 FPL (Fifth Point Load)	 UDL (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 E12-2006 • 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				