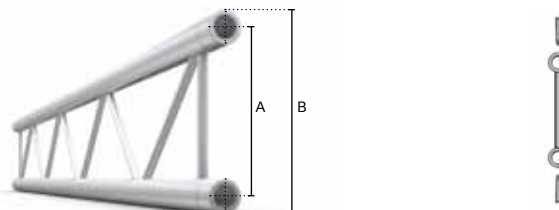


# M290 Regular

- Certified 50mm tube M290 series modular truss range
- Interior & exterior applications
- Durable construction with diagonal anti-twist end brace
- Fast connection for quick, simple and secure assembly
- Great free-span & loading characteristics (up to 20m / 65.61 ft)
- Connection kit supplied with every truss length & junction
- Compatible with 200/400/500/600 series cell clamps
- Compatible with Xtruss accessories
- Powder coat colour finish available on request

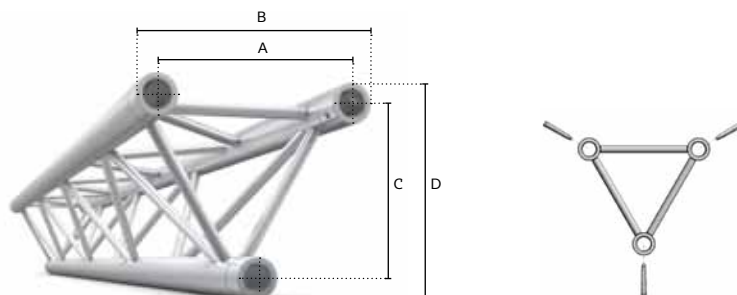
## DUO



### M290

	Main Chords	Diagonals	Alloy	A	B	Coupler
<b>BTB</b>	50x2 (2x0.08)	16x2 (0.62x0.08)	EN - AW 6082 T6	240 (9.44)	290 (11.41)	CCB
<b>BTF</b>	50x2 (2x0.08)	16x2 (0.62x0.08)	EN - AW 6082 T6	240 (9.44)	290 (11.41)	CCF
<b>BTU</b>	50x2 (2x0.08)	20x2 (0.78x0.08)	EN - AW 6082 T6	240 (9.44)	290 (11.41)	CCU

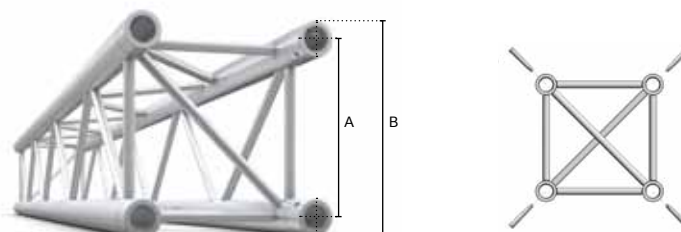
## TRIO



### M290

	Main Chords	Diagonals	Alloy	A	B	C	D	Coupler
<b>STB</b>	50x2 (2x0.08)	16x2 (0.62x0.08)	EN - AW 6082 T6	240 (9.44)	290 (11.41)	207 (8.15)	257 (10.12)	CCB
<b>STF</b>	50x2 (2x0.08)	16x2 (0.62x0.08)	EN - AW 6082 T6	240 (9.44)	290 (11.41)	207 (8.15)	257 (10.12)	CCF
<b>STU</b>	50x2 (2x0.08)	20x2 (0.78x0.08)	EN - AW 6082 T6	240 (9.44)	290 (11.41)	207 (8.15)	257 (10.12)	CCU

## QUATRO



### M290

	Main Chords	Diagonals	Alloy	A	B	Coupler
<b>QTB</b>	50x2 (2x0.08)	16x2 (0.62x0.08)	EN - AW 6082 T6	240 (9.44)	290 (11.41)	CCB
<b>QTF</b>	50x2 (2x0.08)	16x2 (0.62x0.08)	EN - AW 6082 T6	240 (9.44)	290 (11.41)	CCF
<b>QTU</b>	50x2 (2x0.08)	20x2 (0.78x0.08)	EN - AW 6082 T6	240 (9.44)	290 (11.41)	CCU

## 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 (3.52)	2.60 (5.73)	3.60 (7.94)	4.50 (9.92)	5.40 (11.90)	6.60 (14.55)	8.30 (18.29)	10.30 (22.71)
<b>TRIO</b>	kg (lbs)	2.60 (5.73)	4.30 (9.47)	6.00 (13.22)	7.70 (16.98)	9.10 (20.06)	10.80 (23.81)	14.10 (31.09)	18.00 (39.68)
<b>QUATRO</b>	kg (lbs)	3.90 (8.60)	6.00 (13.23)	8.30 (18.30)	10.60 (23.37)	12.90 (28.44)	15.00 (33.07)	19.60 (43.21)	23.50 (51.81)

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

### M290 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)	667.50 (1471.58)	577.60 (1273.39)	460.00 (1014.13)	381.10 (840.18)	324.50 (715.40)	281.70 (621.04)	248.10 (546.97)
<b>Deflection</b>	mm (in)	6.00 (0.24)	12.30 (0.48)	19.30 (0.76)	27.80 (1.09)	38.00 (1.50)	49.80 (1.96)	63.20 (2.49)
<b>Third Point Load (TPL)</b>	kg (lbs)	333.70 (735.68)	332.60 (733.26)	331.40 (730.61)	285.80 (630.08)	243.30 (536.38)	211.20 (465.62)	186.10 (410.28)
<b>Deflection</b>	mm (in)	5.10 (0.20)	12.10 (0.48)	23.60 (0.93)	35.40 (1.39)	48.20 (1.90)	63.00 (2.48)	79.70 (3.14)
<b>Quarter Point Load (QPL)</b>	kg (lbs)	222.50 (490.53)	221.70 (488.76)	220.90 (487.00)	190.60 (420.20)	162.20 (357.59)	140.80 (310.41)	124.10 (273.59)
<b>Deflection</b>	mm (in)	4.70 (0.19)	11.20 (0.44)	22.00 (0.87)	32.90 (1.30)	44.90 (1.77)	58.70 (2.31)	74.40 (2.93)
<b>Fifth Point Load (FPL)</b>	kg (lbs)	166.90 (367.95)	166.30 (366.63)	165.70 (365.31)	158.80 (350.09)	135.20 (298.06)	117.40 (258.82)	103.40 (227.96)
<b>Deflection</b>	mm (in)	4.50 (0.18)	10.70 (0.42)	21.00 (0.83)	34.90 (1.37)	47.50 (1.87)	62.10 (2.44)	78.70 (3.10)
<b>Uniformly Distributed Load (UDL)</b>	kg (lbs)	222.50 (490.53)	166.30 (366.63)	132.50 (292.84)	110.10 (242.98)	92.70 (204.29)	70.40 (155.31)	55.10 (121.53)
<b>Deflection</b>	mm (in)	3.80 (0.15)	8.90 (0.35)	17.40 (0.69)	30.10 (1.19)	47.20 (1.86)	61.60 (2.43)	78.10 (3.07)

DUO figures are based on use in vertical mode and stabilized every 1m • Higher loading values for U version available

### M290 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)	497.20 (1096.14)	325.60 (717.82)	238.00 (524.70)	184.10 (405.87)	147.00 (324.08)	97.90 (215.83)	65.60 (144.62)
<b>Deflection</b>	mm (in)	10.60 (0.42)	24.00 (0.94)	43.10 (1.70)	68.10 (2.68)	99.50 (3.92)	183.20 (7.21)	299.20 (11.77)
<b>Third Point Load (TPL)</b>	kg (lbs)	372.90 (822.10)	244.20 (538.37)	178.50 (393.52)	138.10 (304.46)	110.20 (242.95)	73.40 (161.82)	49.20 (108.46)
<b>Deflection</b>	mm (in)	13.50 (0.53)	30.40 (1.20)	54.10 (2.13)	84.80 (3.34)	122.50 (4.82)	219.60 (8.65)	346.80 (13.65)
<b>Quarter Point Load (QPL)</b>	kg (lbs)	248.60 (548.07)	162.80 (358.91)	119.00 (262.35)	92.00 (202.83)	73.50 (162.04)	48.90 (107.81)	32.80 (72.31)
<b>Deflection</b>	mm (in)	12.50 (0.49)	28.30 (1.11)	50.50 (1.99)	79.40 (3.13)	115.00 (4.53)	207.80 (8.18)	331.30 (13.04)
<b>Fifth Point Load (FPL)</b>	kg (lbs)	207.20 (456.80)	135.70 (299.17)	99.20 (218.70)	76.70 (169.09)	61.20 (134.92)	40.80 (89.95)	27.30 (60.18)
<b>Deflection</b>	mm (in)	13.30 (0.52)	30.00 (1.18)	53.40 (2.10)	83.70 (3.30)	121.00 (4.76)	217.30 (8.56)	343.70 (13.53)
<b>Uniformly Distributed Load (UDL)</b>	kg (lbs)	248.60 (548.07)	108.50 (238.91)	59.50 (130.98)	36.80 (81.23)	24.50 (53.96)	12.20 (27.04)	6.60 (14.55)
<b>Deflection</b>	mm (in)	13.20 (0.52)	29.70 (1.17)	53.00 (2.09)	83.10 (3.27)	120.20 (4.73)	216.00 (8.50)	342.00 (13.46)

TRIO figures are based on use in apex up/down orientation • Higher loading values for U version available

### M290 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)	1155.40 (2547.22)	762.50 (1681.02)	563.70 (1242.74)	442.50 (975.54)	360.20 (794.10)	253.80 (559.53)	186.20 (410.50)
<b>Deflection</b>	mm (in)	12.30 (0.48)	27.80 (1.09)	49.70 (1.96)	78.30 (3.08)	113.70 (4.48)	206.40 (8.13)	331.10 (13.03)
<b>Third Point Load (TPL)</b>	kg (lbs)	665.30 (1466.73)	571.90 (1260.82)	422.80 (932.11)	331.90 (731.71)	270.10 (595.47)	190.30 (419.54)	139.60 (307.76)
<b>Deflection</b>	mm (in)	12.10 (0.48)	35.40 (1.39)	63.00 (2.48)	98.50 (3.88)	142.10 (5.59)	253.90 (10.00)	399.20 (15.71)
<b>Quarter Point Load (QPL)</b>	kg (lbs)	443.50 (977.75)	381.30 (840.62)	281.80 (621.26)	221.30 (487.88)	180.10 (397.05)	126.90 (279.77)	93.10 (205.25)
<b>Deflection</b>	mm (in)	11.20 (0.44)	32.90 (1.30)	58.70 (2.31)	91.90 (3.62)	132.90 (5.23)	238.50 (9.39)	377.10 (14.85)
<b>Fifth Point Load (FPL)</b>	kg (lbs)	332.60 (733.26)	317.70 (700.41)	234.90 (517.87)	184.40 (406.53)	150.10 (330.91)	105.70 (233.03)	77.60 (171.07)
<b>Deflection</b>	mm (in)	10.70 (0.42)	34.90 (1.37)	62.10 (2.44)	97.20 (3.83)	140.30 (5.52)	250.90 (9.88)	394.90 (15.54)
<b>Uniformly Distributed Load (UDL)</b>	kg (lbs)	332.60 (733.26)	220.20 (487.97)	140.90 (310.68)	88.50 (194.47)	60.00 (132.28)	31.70 (70.04)	18.60 (41.00)
<b>Deflection</b>	mm (in)	8.90 (0.35)	30.10 (1.19)	61.60 (2.43)	96.50 (3.80)	139.30 (5.48)	249.20 (9.81)	392.4 (15.44)

Higher loading values for U version available

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				