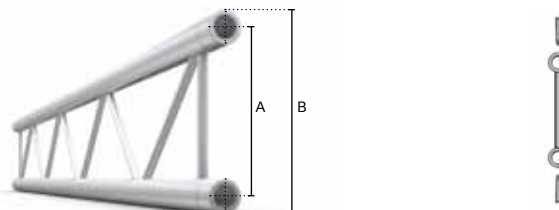


M290 Regular

- 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

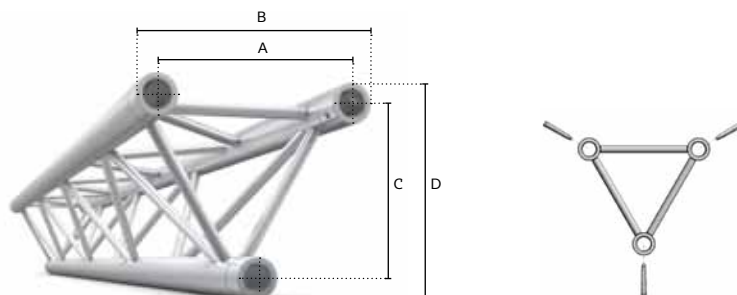
DUO



M290

	Main Chords	Diagonals	Alloy	A	B	Coupler
BTB	50x2 (2x0.08)	16x2 (0.62x0.08)	EN - AW 6082 T6	240 (944)	290 (1141)	CCB
BTF	50x2 (2x0.08)	16x2 (0.62x0.08)	EN - AW 6082 T6	240 (944)	290 (1141)	CCF
BTU	50x2 (2x0.08)	20x2 (0.78x0.08)	EN - AW 6082 T6	240 (944)	290 (1141)	CCU

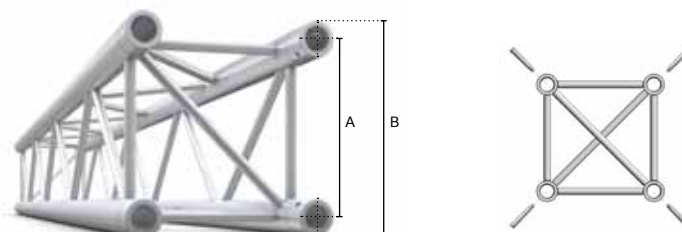
TRIO



M290

	Main Chords	Diagonals	Alloy	A	B	C	D	Coupler
STB	50x2 (2x0.08)	16x2 (0.62x0.08)	EN - AW 6082 T6	240 (944)	290 (1141)	207 (8.15)	257 (10.12)	CCB
STF	50x2 (2x0.08)	16x2 (0.62x0.08)	EN - AW 6082 T6	240 (944)	290 (1141)	207 (8.15)	257 (10.12)	CCF
STU	50x2 (2x0.08)	20x2 (0.78x0.08)	EN - AW 6082 T6	240 (944)	290 (1141)	207 (8.15)	257 (10.12)	CCU

QUATRO



M290

	Main Chords	Diagonals	Alloy	A	B	Coupler
QTB	50x2 (2x0.08)	16x2 (0.62x0.08)	EN - AW 6082 T6	240 (944)	290 (1141)	CCB
QTF	50x2 (2x0.08)	16x2 (0.62x0.08)	EN - AW 6082 T6	240 (944)	290 (1141)	CCF
QTU	50x2 (2x0.08)	20x2 (0.78x0.08)	EN - AW 6082 T6	240 (944)	290 (1141)	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)
DUO	kg (lbs)	1.70 (3.75)	2.60 (5.73)	3.60 (7.94)	4.50 (9.92)	5.50 (12.13)	6.60 (14.55)	8.50 (18.74)	10.30 (22.71)
TRIO	kg (lbs)	2.80 (6.17)	4.50 (9.92)	6.00 (13.22)	7.70 (16.98)	9.10 (20.06)	10.80 (23.81)	14.10 (31.09)	18.00 (39.68)
QUATRO	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)
Point load	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)
Deflection	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)
Two point load	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)
Deflection	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)
Three point load	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)
Deflection	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)
Four point load	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)
Deflection	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)
Distrib. loading	kg (lbs)	222.50	(490.53)	166.30	(366.63)	132.50	(292.81)	110.10	(242.98)	92.70	(205.29)	70.40	(155.31)	55.10	(121.53)
Deflection	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)	14.00	(45.93)	16.00	(52.49)
Point load	kg (lbs)	497.20	(1096.14)	325.60	(717.82)	238.00	(524.70)	184.10	(405.87)	147.00	(324.08)	119.40	(263.23)	97.90	(215.83)
Deflection	mm (in)	10.60	(0.42)	24.00	(0.94)	43.10	(1.70)	68.10	(2.68)	99.50	(3.92)	137.70	(5.42)	183.20	(7.21)
Two point load	kg (lbs)	372.90	(822.10)	244.20	(538.37)	178.50	(393.52)	138.10	(304.46)	110.20	(242.95)	89.60	(197.53)	73.40	(161.82)
Deflection	mm (in)	13.50	(0.53)	30.40	(1.20)	54.10	(2.13)	84.80	(3.34)	122.50	(4.82)	167.40	(6.59)	219.60	(8.65)
Three point load	kg (lbs)	248.60	(548.07)	162.80	(358.91)	119.00	(262.35)	92.00	(202.83)	73.50	(162.04)	59.70	(131.62)	48.90	(107.81)
Deflection	mm (in)	12.50	(0.49)	28.30	(1.11)	50.50	(1.99)	79.40	(3.13)	115.00	(4.53)	157.70	(6.21)	207.80	(8.18)
Four point load	kg (lbs)	207.20	(456.80)	135.70	(299.17)	99.20	(218.70)	76.70	(169.09)	61.20	(134.92)	49.80	(109.79)	40.80	(89.95)
Deflection	mm (in)	13.30	(0.52)	30.00	(1.18)	53.40	(2.10)	83.70	(3.30)	121.00	(4.76)	165.50	(6.52)	217.30	(8.56)
Distrib. loading	kg (lbs)	248.60	(548.07)	108.50	(239.11)	59.50	(130.98)	36.80	(81.43)	24.50	(54.06)	17.10	(37.71)	12.20	(27.05)
Deflection	mm (in)	13.20	(0.52)	29.70	(1.17)	53.00	(2.09)	83.10	(3.27)	120.20	(4.73)	164.40	(6.47)	216.00	(8.50)

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)	14.00	(45.93)	16.00	(52.49)
Point load	kg (lbs)	1155.40	(2547.22)	762.50	(1681.02)	563.70	(1242.74)	442.50	(975.54)	360.20	(794.10)	300.00	(661.39)	253.80	(559.53)
Deflection	mm (in)	12.30	(0.48)	27.80	(1.09)	49.70	(1.96)	78.30	(3.08)	113.70	(4.48)	156.20	(6.15)	206.40	(8.13)
Two point load	kg (lbs)	665.30	(1466.73)	571.90	(1260.82)	422.80	(932.11)	331.90	(731.71)	270.10	(595.47)	225.00	(496.04)	190.30	(419.54)
Deflection	mm (in)	12.10	(0.48)	35.40	(1.39)	63.00	(2.48)	98.50	(3.88)	142.10	(5.59)	193.90	(7.63)	253.90	(10.00)
Three point load	kg (lbs)	443.50	(977.75)	381.30	(840.62)	281.80	(621.26)	221.30	(487.88)	180.10	(397.05)	150.00	(330.69)	126.90	(279.77)
Deflection	mm (in)	11.20	(0.44)	32.90	(1.30)	58.70	(2.31)	91.90	(3.62)	132.90	(5.23)	181.70	(7.15)	238.50	(9.39)
Four point load	kg (lbs)	332.60	(733.26)	317.70	(700.41)	234.90	(517.87)	184.40	(406.53)	150.10	(330.91)	125.00	(275.58)	105.70	(233.03)
Deflection	mm (in)	10.70	(0.42)	34.90	(1.37)	62.10	(2.44)	97.20	(3.83)	140.30	(5.52)	191.50	(7.54)	250.90	(9.88)
Distrib. loading	kg (lbs)	332.60	(733.26)	220.20	(487.97)	140.90	(311.68)	88.50	(194.47)	60.00	(132.29)	42.90	(94.63)	31.70	(70.05)
Deflection	mm (in)	8.90	(0.35)	30.10	(1.19)	61.60	(2.43)	96.50	(3.80)	139.30	(5.48)	190.10	(7.48)	249.20	(9.81)

Higher loading values for U version available

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