

Connecting the world






M290 Heavy-Duty





- Certified 48mm tube heavy-duty M290 series truss range
- Keystone system used within PA & Rigging Towers & Roofs
- 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

M290V 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	666.90	1470.26	664.40	1464.75	648.80	1430.36	538.30	1186.75	459.00	1011.92	399.20	880.08	352.40	776.91
deflection	mm	inch	4.30	0.17	10.10	0.40	19.30	0.76	27.90	1.10	38.00	1.50	49.70	1.96	63.10	2.48
two point load 	kg	lbs	333.50	735.24	332.20	732.37	330.90	729.51	329.60	726.64	328.30	723.78	299.40	660.06	264.30	582.68
deflection	mm	inch	3.60	0.14	8.60	0.34	16.80	0.66	29.00	1.14	46.10	1.81	63.10	2.48	79.90	3.15
three point load 	kg	lbs	222.30	490.09	221.50	488.32	220.60	486.34	219.70	484.36	218.80	482.59	199.60	440.04	176.20	388.45
deflection	mm	inch	3.40	0.13	8.00	0.31	15.60	0.61	27.00	1.06	42.90	1.69	58.70	2.31	74.40	2.93
four point load 	kg	lbs	166.70	367.51	166.10	366.19	165.50	364.86	164.80	363.32	164.20	362.00	163.50	360.46	146.90	323.86
deflection	mm	inch	3.20	0.13	7.70	0.30	15.00	0.59	25.80	1.02	41.00	1.61	61.20	2.41	78.80	3.10
distributed load 	kg/m	lbs/ft	222.30	149.38	166.10	111.61	132.40	88.97	109.90	73.85	93.80	63.03	81.80	54.97	72.40	48.65
deflection	mm	inch	2.70	0.11	6.30	0.25	12.40	0.49	21.40	0.84	34.10	1.34	50.90	2.00	72.50	2.85

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

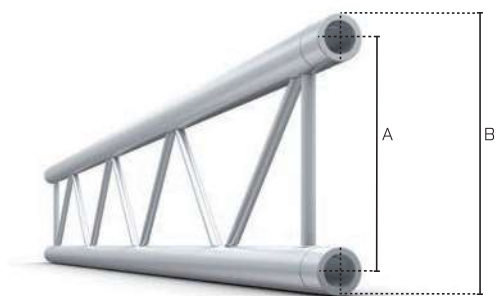
M290V TRIO			LOADING CHART													
Span	m	ft	4.00	13.12	6.00	19.69	8.00	26.25	10.00	32.81	12.00	39.37	14.00	45.93	16.00	52.49
point load 	kg	lbs	700.50	1544.34	459.80	1013.68	337.30	743.62	262.10	577.83	210.50	464.07	172.40	380.08	142.80	314.82
deflection	mm	inch	10.60	0.42	24.00	0.94	43.10	1.70	68.00	2.68	99.20	3.91	137.00	5.39	182.00	7.17
two point load 	kg	lbs	525.40	1158.31	344.90	760.37	253.00	557.77	196.60	433.43	157.90	348.11	129.30	285.06	107.10	236.11
deflection	mm	inch	13.50	0.53	30.50	1.20	54.30	2.14	85.00	3.35	122.70	4.83	167.60	6.60	219.80	8.65
three point load 	kg	lbs	350.20	772.06	229.90	506.84	168.70	371.92	131.00	288.81	105.30	232.15	86.20	190.04	71.40	157.41
deflection	mm	inch	12.60	0.50	28.40	1.12	50.60	1.99	79.50	3.13	115.10	4.53	157.70	6.21	207.50	8.17
four point load 	kg	lbs	267.80	634.49	191.60	422.41	140.50	309.75	109.20	240.74	87.70	193.35	71.80	158.29	59.50	131.17
deflection	mm	inch	13.20	0.52	30.10	1.19	53.60	2.11	83.90	3.30	121.20	4.77	165.70	6.52	217.40	8.56
distributed load 	kg/m	lbs/ft	267.80	193.39	153.30	103.01	84.30	56.65	52.40	35.21	35.10	23.59	24.60	16.53	17.80	11.96
deflection	mm	inch	10.90	0.43	29.80	1.17	53.10	2.09	83.30	3.28	120.40	4.74	164.60	6.48	216.00	8.50

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

M290V 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	1328.00	2927.74	1076.00	2372.17	797.70	1758.63	628.60	1385.82	514.10	1133.40	430.80	949.75	366.90	808.88
deflection	mm	inch	10.10	0.40	27.90	1.10	49.70	1.96	78.20	3.08	113.30	4.46	155.50	6.12	205.00	8.07
two point load 	kg	lbs	664.00	1463.87	658.70	1452.18	598.30	1319.02	471.40	1039.26	385.60	850.10	323.10	712.31	275.20	606.71
deflection	mm	inch	8.60	0.34	29.00	1.14	63.10	2.48	98.70	3.89	142.30	5.60	194.00	7.64	254.00	10.00
three point load 	kg	lbs	442.70	975.99	439.10	968.05	398.90	879.42	314.30	692.91	257.00	566.59	215.40	474.88	183.50	404.55
deflection	mm	inch	8.00	0.31	27.00	1.06	58.70	2.31	92.00	3.62	132.90	5.23	181.50	7.15	238.00	9.37
four point load 	kg	lbs	332.00	731.93	329.30	725.98	326.70	720.25	261.90	577.39	214.20	472.23	179.50	395.73	152.90	337.09
deflection	mm	inch	7.70	0.30	25.80	1.02	61.20	2.41	97.40	3.83	140.50	5.53	191.60	7.54	250.80	9.87
distributed load 	kg/m	lbs/ft	332.00	223.09	219.60	147.56	163.30	109.73	125.70	84.47	85.70	57.59	61.50	41.33	45.90	30.84
deflection	mm	inch	6.30	0.25	21.40	0.84	50.90	2.00	96.60	3.80	139.40	5.49	190.20	7.49	249.10	9.81

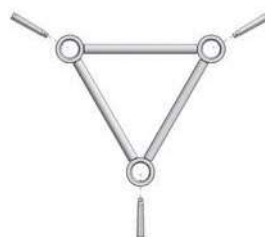
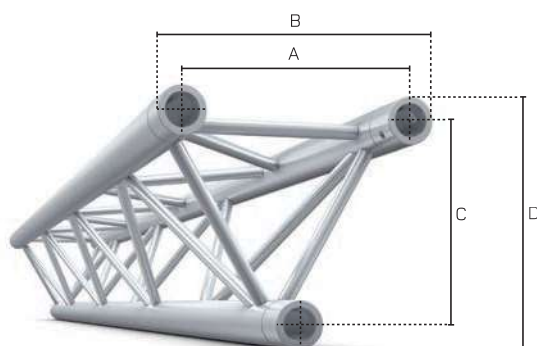
All truss loading calculations and TUV certifications are based on:

Truss supported or suspended at both ends • Static loadings only • Loads applied in the node points • Self weight of trusses included • Spans made of different truss lengths • Interaction of bending moment and shear force at connector • Structural calculations made in 2014 are based on DIN EN 1999-1-1 and DIN EN 1999-1-1/A2 • All loading data should be multiplied by 0.85 to comply with BS 7905-2 / ANSI E12-2006 / CWA 15902-2 • 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



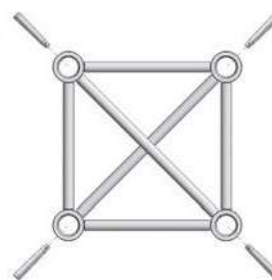
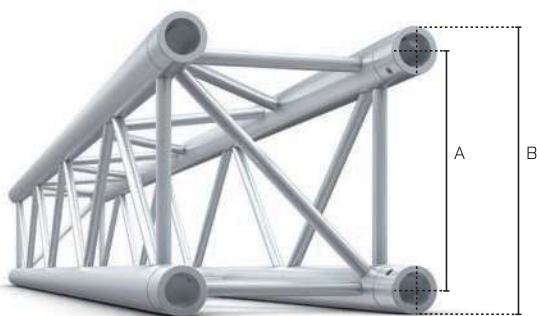
DUO

M290V	Main Tubes		Braces		Alloy	A		B		Coupler
BTV	48x3mm	1.89"x0.12"	16x2mm	0.62"x0.08"	EN - AW 6082 T6	239mm	9.41"	288mm	11.34"	CCB
BTVF	48x3mm	1.89"x0.12"	16x2mm	0.62"x0.08"	EN - AW 6082 T6	239mm	9.41"	288mm	11.34"	CCF
BTVU	48x3mm	1.89"x0.12"	20x2mm	0.78"x0.08"	EN - AW 6082 T6	239mm	9.41"	288mm	11.34"	CCU



TRIO

M290V	Main Tubes		Braces		Alloy	A		B		C		D		Coupler
STV	48x3mm	1.89"x0.12"	16x2mm	0.62"x0.08"	EN - AW 6082 T6	239mm	9.44"	288mm	11.34"	207mm	8.15"	255mm	10.04"	CCB
STVF	48x3mm	1.89"x0.12"	16x2mm	0.62"x0.08"	EN - AW 6082 T6	239mm	9.41"	288mm	11.34"	207mm	8.15"	255mm	10.04"	CCF
STVU	48x3mm	1.89"x0.12"	20x2mm	0.78"x0.08"	EN - AW 6082 T6	239mm	9.41"	288mm	11.34"	207mm	8.15"	255mm	10.04"	CCU



QUATRO

M290V	Main Tubes		Braces		Alloy	A		B		Coupler
QTV	48x3mm	1.89"x0.12"	16x2mm	0.62"x0.08"	EN - AW 6082 T6	240mm	9.44"	288mm	11.34"	CCB
QTVF	48x3mm	1.89"x0.12"	16x2mm	0.62"x0.08"	EN - AW 6082 T6	239mm	9.41"	288mm	11.34"	CCF
QTVU	48x3mm	1.89"x0.12"	20x2mm	0.78"x0.08"	EN - AW 6082 T6	239mm	9.41"	288mm	11.34"	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	3.9	3.00	6.75	4.30	9.57	5.70	12.57	6.90	15.21	8.10	17.86	10.70	23.7	13.30	29.34
TRIO	kg	lbs	2.90	6.39	5.00	11.02	7.10	15.65	9.30	20.50	11.40	25.13	13.50	29.76	18.00	39.68	22.00	48.50
QUATRO	kg	lbs	4.10	9.04	7.00	15.43	9.90	21.83	12.50	27.56	15.50	34.17	18.30	40.35	24.00	52.91	29.70	65.48

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