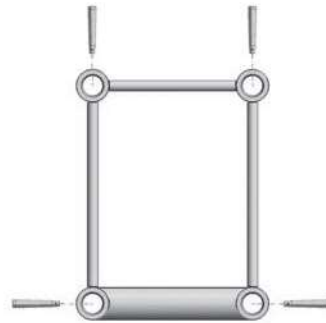
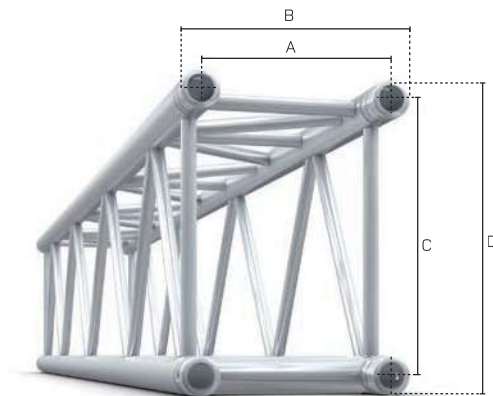


Connecting the world

M290x390

- Parallel diagonals allow for Trio truss to slip through
- Horizontal bracing at node points counteract horizontal force caused by slinging 4
- 8 mm bottom brace for trouble-free suspension of lighting fixtures
- 25% less transport volume compared to QTP
- Easy pin access due to horizontal positioning of pin holes at bottom tubes
- Compatible with 200/400/500/600 series cell clamps



RECT

M290x390	Main Tubes		Braces		Alloy	A		B		C		D		Coupler
RTL	48x3mm	1.89" x 0.12"	48x3mm 20x2mm	1.89" x 0.12" 0.78" x 0.08"	EN - AW 6082 T6	240mm	9.45"	290mm	11.40"	340mm	13.38"	390mm	15.35"	CCB

M290x390 RECT			LOADING CHART															
Span	m	ft	4.00	13.12	5.00	16.40	6.00	19.69	7.00	22.97	8.00	26.25	9.00	29.53	10.00	32.81		
point load	kg	lbs	1938.00	4273.29	1637.00	3609.59	1404.00	3095.82	1224.00	2698.92	1087.00	2396.84	970.00	2138.85	875.00	1929.38		
deflection	mm	inch	7.40	0.29	12.30	0.48	18.30	0.71	25.50	0.99	34.00	1.33	43.60	1.70	54.50	2.13		
two point load	kg	lbs	1278.00	2817.99	1103.00	2432.12	973.00	2145.47	859.00	1894.10	773.00	1704.47	697.00	1536.89	630.00	1389.15		
deflection	mm	inch	8.30	0.32	14.00	0.55	21.50	0.84	30.30	1.18	41.00	1.60	53.00	2.07	66.20	2.58		
three point load	kg	lbs	925.70	2041.17	883.00	1947.02	755.00	1664.78	650.80	1435.01	566.20	1248.47	500.00	1102.50	446.70	984.97		
deflection	mm	inch	8.40	0.33	15.60	0.61	23.20	0.90	32.00	1.25	41.80	1.63	53.00	2.07	65.50	2.55		
four point load	kg	lbs	694.30	1530.93	692.60	1527.18	604.00	1331.82	521.00	1148.81	462.00	1018.71	412.00	908.46	369.00	813.65		
deflection	mm	inch	8.00	0.31	15.60	0.61	23.70	0.92	32.60	1.27	43.40	1.69	55.60	2.17	68.60	2.68		
distributed load	kg/m	lbs/ft	694.30	466.55	554.10	372.34	460.50	309.44	371.90	249.91	263.10	180.23	222.20	149.31	178.70	120.08		
deflection	mm	inch	6.60	0.26	13.00	0.51	22.40	0.87	33.60	1.31	44.00	1.72	55.70	2.17	68.80	2.68		

Span	11.00	36.09	12.00	39.37	13.00	42.65	14.00	45.93	15.00	49.21	16.00	52.49	18.00	59.06	20.00	65.62		
point load	789.00	1739.75	724.00	1596.42	662.00	1459.71	614.20	1354.31	566.50	1249.13	524.30	1156.08	452.90	998.64	394.40	869.65		
deflection	66.20	2.58	79.80	3.11	94.00	3.67	110.50	4.31	127.30	4.96	145.50	5.67	185.90	7.25	232.00	9.05		
two point load	574.00	1265.67	532.00	1173.06	491.00	1082.66	451.00	994.46	421.00	928.31	393.30	867.23	339.70	749.04	295.80	652.24		
deflection	81.00	3.16	98.40	3.84	116.80	4.56	135.60	5.29	157.20	6.13	180.70	7.05	229.20	8.94	283.70	11.06		
three point load	402.70	887.95	365.80	806.59	334.30	737.13	307.10	677.16	283.30	624.68	262.20	578.15	226.50	499.43	197.20	434.83		
deflection	79.30	3.09	94.60	3.69	111.10	4.33	129.10	5.03	148.50	5.79	169.30	6.80	215.20	8.39	266.90	10.41		
four point load	335.60	740.00	304.90	672.30	278.60	614.31	255.90	564.26	236.00	520.38	218.50	481.79	188.70	416.08	164.30	362.28		
deflection	83.90	3.27	100.00	3.90	117.40	4.58	136.30	5.32	156.70	6.11	178.50	6.96	226.50	8.83	280.40	10.94		
distributed load	146.40	98.38	121.90	81.91	102.90	69.15	87.70	58.93	75.50	50.73	65.50	44.01	50.30	33.80	39.40	26.48		
deflection	83.30	3.25	99.20	3.87	116.60	4.55	135.30	5.28	155.60	6.07	177.20	6.91	224.90	8.77	278.50	10.86		

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	3.50	11.48	4	13.12
RECT	kg	lbs	4.50	9.92	7.70	16.98	10.90	24.03	14.10	32.85	17.30	38.14	20.50	45.20	23.70	52.25	26.90	59.31

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

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

