

S-M1010 Rect

- 1010 x 580 mm rectangular span section made from bespoke, high-strength steels
- 2.7 times higher bending strength compared to aluminium truss with similar dimensions
- Orientation-free connectors for ease of use
- Pinned connectors for increased strength
- End braces with 22 mm holes for lateral connections
- Optimised truss design for convenient insertion of lateral truss
- Integrated forklift pick up points, double fork couplers, zinc coated pins and matt black, impact-resistant industrial paint finish



Forklift pick up points

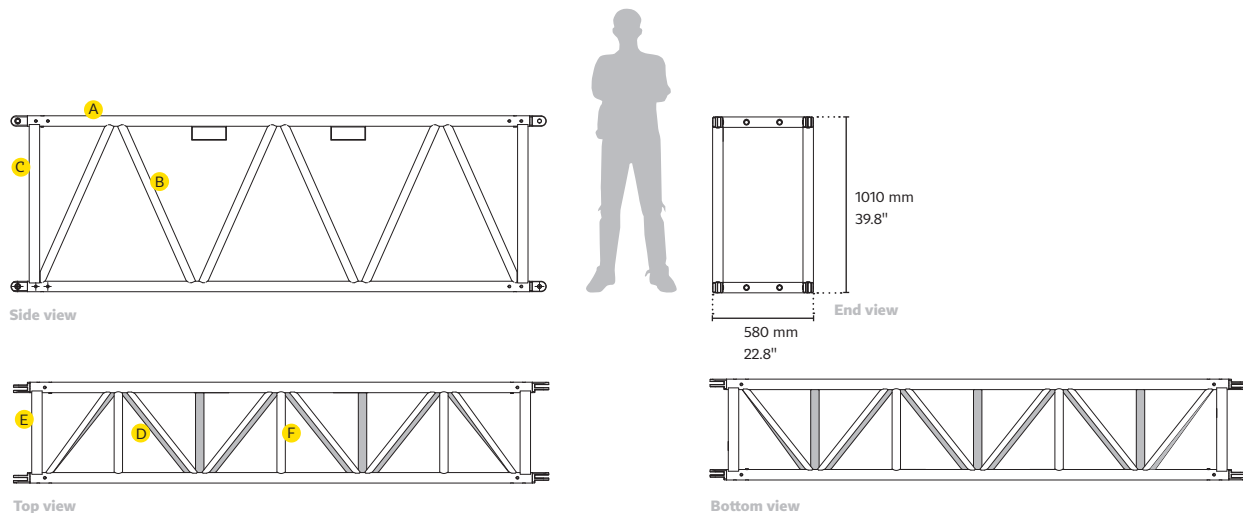
S-M1010 Rectangular truss section

S-RTD	mm	in	Vertical			Horizontal		Pin type:	
			Main Chords A:	Diagonals B:	End braces C:	Diagonals D:	End braces E:		Intermediate cross braces F:
			60.3 x 4 (2.4 x 0.16)	48.3 x 3.2 (1.9 x 0.1)	60 x 60 x 4 (2.4 x 2.4 x 0.16)	33.7 x 2.6 (1.3 x 0.1)	60 x 60 x 4 (2.4 x 2.4 x 0.16)	48.3 x 3.2 (1.9 x 0.1)	PQ

STANDARD LENGTHS AND WEIGHTS AVAILABLE

S-RTD	m	ft	1.00 (3.28)		2.00 (6.56)		2.50 (8.20)		3.00 (9.84)		4.00 (13.12)		5.00 (16.41)		6.00 (19.68)	
	kg	lbs	106.40 (234.57)	150.70 (332.24)	172.90 (381.18)	195.00 (429.90)	239.30 (527.57)	284.00 (626.11)	328.70 (724.66)							

Connection material and packaging are not included in above weights



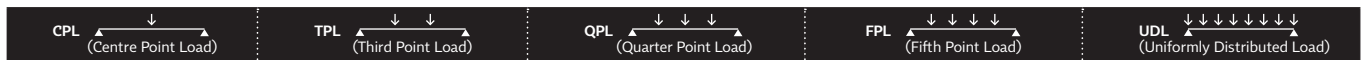
Span	m (ft)	10.00 (32.80)	11.00 (36.10)	12.00 (39.40)	13.00 (42.70)	14.00 (45.90)	15.00 (49.20)	16.00 (52.50)
CPL	kg (lbs)	14407 (31762)	13037 (28742)	11890 (26213)	10915 (24063)	10075 (22212)	9342 (20596)	8697 (19174)
Deflection	mm (in)	23 (0.91)	28 (1.10)	33 (1.30)	39 (1.54)	45 (1.77)	52 (2.05)	60 (2.36)
TPL	kg (lbs)	10805 (23821)	9778 (21557)	8918 (19661)	8186 (18047)	7556 (16658)	7007 (15448)	6523 (14381)
Deflection	mm (in)	29 (1.14)	35 (1.38)	42 (1.65)	49 (1.93)	57 (2.24)	66 (2.60)	75 (2.95)
QPL	kg (lbs)	7204 (15882)	6519 (14372)	5945 (13106)	5458 (12033)	5037 (11105)	4671 (10298)	4349 (9588)
Deflection	mm (in)	27 (1.06)	33 (1.30)	39 (1.54)	46 (1.81)	54 (2.13)	62 (2.44)	70 (2.76)
FPL	kg (lbs)	5649 (12454)	5432 (11976)	4954 (10922)	4548 (10027)	4198 (9255)	3893 (8583)	3624 (7990)
Deflection	mm (in)	27 (1.06)	35 (1.38)	42 (1.65)	49 (1.93)	57 (2.24)	65 (2.56)	74 (2.91)
UDL	kg/m (lbs/ft)	2260 (1519)	2048 (1376)	1872 (1258)	1679 (1128)	1439 (967)	1246 (837)	1087 (730)
Deflection	mm (in)	23 (0.91)	30 (1.18)	39 (1.54)	48 (1.89)	56 (2.20)	65 (2.56)	74 (2.91)

Span	m (ft)	17.00 (55.80)	18.00 (59.10)	19.00 (62.30)	20.00 (65.60)	21.00 (68.90)	22.00 (72.20)	23.00 (75.50)
CPL	kg (lbs)	8125 (17913)	7612 (16782)	7150 (15763)	6731 (14839)	6349 (13997)	5999 (13226)	5676 (12513)
Deflection	mm (in)	68 (2.68)	76 (2.99)	85 (3.35)	94 (3.70)	104 (4.09)	115 (4.53)	126 (4.96)
TPL	kg (lbs)	6093 (13433)	5709 (12586)	5362 (11821)	5048 (11129)	4762 (10498)	4499 (9919)	4257 (9385)
Deflection	mm (in)	85 (3.35)	95 (3.74)	106 (4.17)	118 (4.65)	130 (5.12)	142 (5.59)	156 (6.14)
QPL	kg (lbs)	4062 (8955)	3806 (8391)	3575 (7882)	3366 (7421)	3175 (7000)	2999 (6612)	2838 (6257)
Deflection	mm (in)	79 (3.11)	89 (3.50)	99 (3.90)	110 (4.33)	121 (4.76)	134 (5.28)	146 (5.75)
FPL	kg (lbs)	3385 (7463)	3172 (6993)	2979 (6568)	2805 (6184)	2645 (5831)	2500 (5512)	2365 (5214)
Deflection	mm (in)	84 (3.31)	94 (3.70)	105 (4.13)	116 (4.57)	128 (5.04)	141 (5.55)	154 (6.06)
UDL	kg/m (lbs/ft)	956 (642)	846 (568)	753 (506)	673 (452)	605 (407)	545 (366)	494 (332)
Deflection	mm (in)	83 (3.27)	93 (3.66)	104 (4.09)	115 (4.53)	127 (5.00)	140 (5.51)	153 (6.02)

Span	m (ft)	24.00 (78.70)	25.00 (82.00)	26.00 (85.30)	27.00 (88.60)	28.00 (91.90)	29.00 (95.10)	30.00 (98.40)
CPL	kg (lbs)	5378 (11856)	5101 (11246)	4843 (10677)	4602 (10146)	4376 (9647)	4163 (9178)	3962 (8735)
Deflection	mm (in)	138 (5.43)	150 (5.91)	163 (6.42)	177 (6.97)	191 (7.52)	205 (8.07)	221 (8.70)
TPL	kg (lbs)	4034 (8893)	3826 (8435)	3633 (8009)	3452 (7610)	3282 (7236)	3122 (6883)	2972 (6552)
Deflection	mm (in)	170 (6.69)	184 (7.24)	200 (7.87)	216 (8.50)	232 (9.13)	249 (9.80)	267 (10.51)
QPL	kg (lbs)	2689 (5928)	2551 (5624)	2422 (5340)	2301 (5073)	2188 (4824)	2082 (4590)	1981 (4367)
Deflection	mm (in)	159 (6.26)	173 (6.81)	188 (7.40)	203 (7.99)	219 (8.62)	235 (9.25)	252 (9.92)
FPL	kg (lbs)	2241 (4941)	2126 (4687)	2018 (4449)	1918 (4228)	1823 (4019)	1735 (3825)	1651 (3640)
Deflection	mm (in)	168 (6.61)	182 (7.17)	197 (7.76)	213 (8.39)	229 (9.02)	246 (9.69)	264 (10.39)
UDL	kg/m (lbs/ft)	448 (301)	408 (274)	373 (251)	341 (229)	313 (210)	287 (193)	264 (177)
Deflection	mm (in)	167 (6.57)	181 (7.13)	196 (7.72)	212 (8.35)	228 (8.98)	245 (9.65)	262 (10.31)

Span	m (ft)	31.00 (101.70)	32.00 (105.00)	33.00 (108.30)	34.00 (111.50)	35.00 (114.80)	36.00 (118.10)	37.00 (121.40)
CPL	kg (lbs)	3773 (8318)	3593 (7921)	3422 (7544)	3259 (7185)	3104 (6843)	2955 (6515)	2813 (6202)
Deflection	mm (in)	237 (9.33)	254 (10.00)	271 (10.67)	289 (11.38)	308 (12.13)	328 (12.91)	348 (13.70)
TPL	kg (lbs)	2829 (6237)	2695 (5941)	2566 (5657)	2444 (5388)	2328 (5132)	2217 (4888)	2110 (4652)
Deflection	mm (in)	285 (11.22)	304 (11.97)	324 (12.76)	345 (13.58)	366 (14.41)	387 (15.24)	410 (16.14)
QPL	kg (lbs)	1886 (4158)	1796 (3960)	1711 (3772)	1630 (3594)	1552 (3422)	1478 (3258)	1407 (3102)
Deflection	mm (in)	270 (10.63)	288 (11.34)	307 (12.09)	327 (12.87)	347 (13.66)	368 (14.49)	390 (15.35)
FPL	kg (lbs)	1572 (3466)	1497 (3300)	1426 (3144)	1358 (2994)	1293 (2851)	1231 (2714)	1172 (2584)
Deflection	mm (in)	282 (11.10)	301 (11.85)	321 (12.64)	341 (13.43)	362 (14.25)	383 (15.08)	406 (15.98)
UDL	kg/m (lbs/ft)	243 (163)	225 (151)	207 (139)	192 (129)	177 (119)	164 (110)	152 (102)
Deflection	mm (in)	281 (11.06)	299 (11.77)	319 (12.56)	339 (13.35)	360 (14.17)	381 (15.00)	403 (15.87)

Span	m (ft)	38.00 (125)	39.00 (128)	40.00 (131)	41.00 (135)	42.00 (138)	43.00 (141)	45.00 (148)
CPL	kg (lbs)	2677 (5901.78)	2546 (5612.97)	2421 (5337.39)	2299 (5068.43)	2182 (4810.49)	2069 (4561.36)	1854 (4087.37)
Deflection	mm (in)	369 (15)	391 (15)	414 (16)	438 (17)	462 (18)	487 (19)	540 (21)
TPL	kg (lbs)	2008 (4426.88)	1910 (4210.83)	1815 (4001.39)	1724 (3800.77)	1637 (3608.97)	1552 (3421.57)	1391 (3066.63)
Deflection	mm (in)	433 (17)	456 (18)	481 (19)	506 (20)	532 (21)	558 (22)	613 (24)
QPL	kg (lbs)	1339 (2951.99)	1273 (2806.49)	1210 (2667.59)	1150 (2535.32)	1091 (2405.24)	1035 (2281.78)	927 (2043.69)
Deflection	mm (in)	412 (16)	435 (17)	459 (18)	484 (19)	509 (20)	535 (21)	589 (23)
FPL	kg (lbs)	1116 (2460.36)	1061 (2339.11)	1009 (2224.46)	958 (2112.03)	909 (2004.00)	862 (1900.39)	773 (1704.17)
Deflection	mm (in)	429 (17)	452 (18)	476 (19)	501 (20)	527 (21)	553 (22)	608 (24)
UDL	kg/m (lbs/ft)	141 (94.75)	131 (88.03)	121 (81.31)	112 (75.26)	104 (69.88)	96 (64.51)	82 (55.10)
Deflection	mm (in)	426 (16.77)	450 (17.7165)	474 (18.66138)	499 (19.64)	525 (20.66)	551 (21.69)	606 (23.85)



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 • Spans made of different truss lengths • Interaction of bending moment and shear force at connector • Structural analysis based on EN 1993-1-1, EN 1993-1-8 and EN 1993-1-12 • To comply with BS 7905-2 / ANSI E1.2-2006 / EN 17115 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