

S-M2000 Fold

- 2002 x 772 mm foldable truss for optimised transport and storage, and made from bespoke, high strength steels
- Unique product for the event industry with increased loading on extremely wide spans
- Orientation-free connectors for ease of use
- Optimised weight to strength ratio
- Pinned connectors for increased strength
- Optimised webbing pattern for ease of use when assembling cross trusses
- Integrated forklift pick up points, double fork couplers, zinc coated pins and matt black, impact-resistant industrial paint finish



Detail of hinge

S-M2000 Foldable truss section

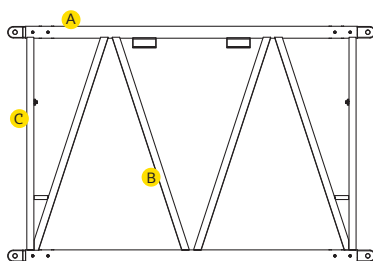
S-FTZ	mm	in	Vertical		Horizontal	Pin type:	
			Main Chords A:	Diagonals B:	End braces C:		Diagonals D:
			101.6 x 4 (4 x 0.16)	60 x 60 x 4 (2.4 x 2.4 x 0.16)	60 x 60 x 4 (2.4 x 2.4 x 0.16)	48.3 x 3.2 (1.9 x 0.1)	PW-FTZ & PW

STANDARD LENGTHS AND WEIGHTS AVAILABLE

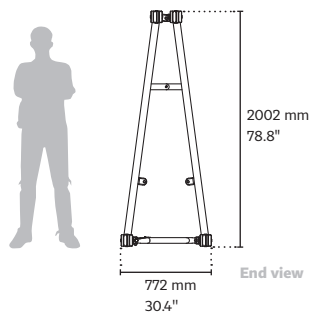
S-FTZ	m		ft		m		ft	
	kg	lbs	kg	lbs	kg	lbs	kg	lbs
	243.20 (536.16)	350.00 (771.62)	387.20 (853.62)	424.30 (935.42)	525.40 (1158.31)	627.10 (1382.52)	728.70 (1606.51)	

Connection material and packaging are not included in above weights

In-service

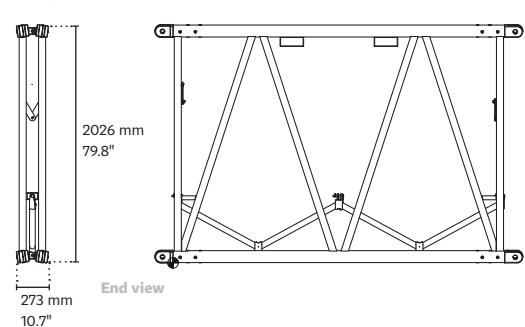


Side view

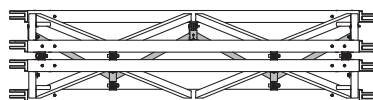


End view

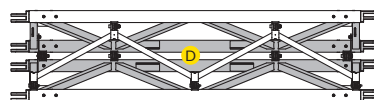
Transport mode



End view



Top view



Bottom view

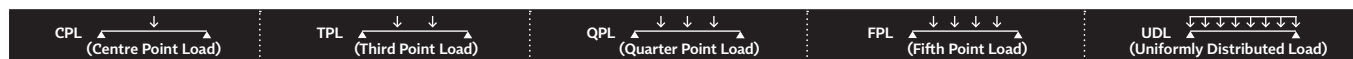
Span	m (ft)	25.00 (82.00)	26.00 (85.30)	27.00 (88.60)	28.00 (91.90)	29.00 (95.10)	30.00 (98.40)	31.00 (101.70)
Centre Point Load (CPL)	kg (lbs)	24932.00 (54966.00)	23858.00 (52598.00)	22860.00 (50398.00)	21928.00 (48343.00)	21057.00 (46423.00)	20240.00 (44622.00)	19472.00 (42928.00)
Deflection	mm (in)	94.00 (3.70)	102.00 (4.02)	110.00 (4.33)	119.00 (4.69)	128.00 (5.04)	137.00 (5.39)	147.00 (5.79)
Third Point Load (TPL)	kg (lbs)	16699.00 (36815.00)	16640.00 (36685.00)	16582.00 (36557.00)	16446.00 (36257.00)	15793.00 (34818.00)	15180.00 (33466.00)	14604.00 (32196.00)
Deflection	mm (in)	107.00 (4.21)	120.00 (4.72)	134.00 (5.28)	149.00 (5.87)	160.00 (6.30)	171.00 (6.73)	183.00 (7.20)
Quarter Point Load (QPL)	kg (lbs)	11133.00 (24544.00)	11094.00 (24458.00)	11055.00 (24372.00)	10964.00 (24171.00)	10529.00 (23212.00)	10120.00 (22311.00)	9736.00 (21464.00)
Deflection	mm (in)	100.00 (3.94)	112.00 (4.41)	125.00 (4.92)	139.00 (5.47)	149.00 (5.87)	160.00 (6.30)	171.00 (6.73)
Fifth Point Load (FPL)	kg (lbs)	8349.00 (18406.00)	8320.00 (18342.00)	8291.00 (18279.00)	8262.00 (18215.00)	8232.00 (18148.00)	8203.00 (18085.00)	8113.00 (17886.00)
Deflection	mm (in)	95.00 (3.74)	107.00 (4.21)	120.00 (4.72)	134.00 (5.28)	149.00 (5.87)	165.00 (6.50)	180.00 (7.09)
Uniformly Distributed Load (UDL)	kg/m (lbs/ft)	1336.00 (898.00)	1280.00 (860.00)	1228.00 (825.00)	1180.00 (793.00)	1136.00 (763.00)	1094.00 (735.00)	1055.00 (709.00)
Deflection	mm (in)	80.00 (3.15)	90.00 (3.54)	101.00 (3.98)	113.00 (4.45)	125.00 (4.92)	139.00 (5.47)	153.00 (6.02)

Span	m (ft)	32.00 (105.00)	33.00 (108.30)	34.00 (111.50)	35.00 (114.80)	36.00 (118.10)	37.00 (121.40)	38.00 (124.70)
Centre Point Load (CPL)	kg (lbs)	18748.00 (41332.00)	18065.00 (39827.00)	17418.00 (38400.00)	16805.00 (37049.00)	16223.00 (35766.00)	15669.00 (34544.00)	15142.00 (33382.00)
Deflection	mm (in)	157.00 (6.18)	167.00 (6.57)	177.00 (6.97)	189.00 (7.44)	200.00 (7.87)	212.00 (8.35)	224.00 (8.82)
Third Point Load (TPL)	kg (lbs)	14061.00 (30999.00)	13549.00 (29870.00)	13064.00 (28801.00)	12604.00 (27787.00)	12167.00 (26824.00)	11752.00 (25909.00)	11356.00 (25036.00)
Deflection	mm (in)	195.00 (7.68)	207.00 (8.15)	220.00 (8.66)	233.00 (9.17)	247.00 (9.72)	261.00 (10.28)	275.00 (10.83)
Quarter Point Load (QPL)	kg (lbs)	9374.00 (20666.00)	9033.00 (19914.00)	8709.00 (19200.00)	8403.00 (18525.00)	8112.00 (17884.00)	7835.00 (17273.00)	7571.00 (16691.00)
Deflection	mm (in)	182.00 (7.17)	194.00 (7.64)	206.00 (8.11)	219.00 (8.62)	232.00 (9.13)	245.00 (9.65)	259.00 (10.20)
Fifth Point Load (FPL)	kg (lbs)	7812.00 (17223.00)	7527.00 (16594.00)	7258.00 (16001.00)	7002.00 (15437.00)	6760.00 (14903.00)	6529.00 (14394.00)	6309.00 (13909.00)
Deflection	mm (in)	192.00 (7.56)	205.00 (8.07)	217.00 (8.54)	230.00 (9.06)	244.00 (9.61)	258.00 (10.16)	272.00 (10.71)
Uniformly Distributed Load (UDL)	kg/m (lbs/ft)	1018.00 (684.00)	984.00 (661.00)	951.00 (639.00)	921.00 (619.00)	892.00 (599.00)	847.00 (569.00)	797.00 (536.00)
Deflection	mm (in)	168.00 (6.61)	185.00 (7.28)	202.00 (7.95)	221.00 (8.70)	240.00 (9.45)	256.00 (10.08)	270.00 (10.63)

Span	m (ft)	39.00 (128.00)	40.00 (131.20)	41.00 (134.50)	42.00 (137.80)	43.00 (141.10)	44.00 (144.40)	45.00 (147.60)
Centre Point Load (CPL)	kg (lbs)	14638.00 (32271.00)	14156.00 (31209.00)	13695.00 (30192.00)	13254.00 (29220.00)	12830.00 (28285.00)	12423.00 (27388.00)	12031.00 (26524.00)
Deflection	mm (in)	236.00 (9.29)	249.00 (9.80)	263.00 (10.35)	276.00 (10.87)	290.00 (11.42)	305.00 (12.01)	320.00 (12.60)
Third Point Load (TPL)	kg (lbs)	10978.00 (24202.00)	10617.00 (23406.00)	10272.00 (22646.00)	9940.00 (21914.00)	9622.00 (21213.00)	9317.00 (20540.00)	9023.00 (19892.00)
Deflection	mm (in)	290.00 (11.42)	306.00 (12.05)	321.00 (12.64)	337.00 (13.27)	354.00 (13.94)	371.00 (14.61)	388.00 (15.28)
Quarter Point Load (QPL)	kg (lbs)	7319.00 (16136.00)	7078.00 (15604.00)	6848.00 (15097.00)	6627.00 (14610.00)	6415.00 (14143.00)	6211.00 (13693.00)	6015.00 (13261.00)
Deflection	mm (in)	273.00 (10.75)	287.00 (11.30)	302.00 (11.89)	318.00 (12.52)	333.00 (13.11)	349.00 (13.74)	366.00 (14.41)
Fifth Point Load (FPL)	kg (lbs)	6099.00 (13446.00)	5898.00 (13003.00)	5706.00 (12580.00)	5522.00 (12174.00)	5346.00 (11786.00)	5176.00 (11411.00)	5013.00 (11052.00)
Deflection	mm (in)	287.00 (11.30)	302.00 (11.89)	318.00 (12.52)	333.00 (13.11)	350.00 (13.78)	367.00 (14.45)	384.00 (15.12)
Uniformly Distributed Load (UDL)	kg/m (lbs/ft)	751.00 (505.00)	708.00 (476.00)	668.00 (449.00)	631.00 (424.00)	597.00 (401.00)	565.00 (380.00)	535.00 (360.00)
Deflection	mm (in)	285.00 (11.22)	300.00 (11.81)	315.00 (12.40)	331.00 (13.03)	347.00 (13.66)	364.00 (14.33)	381.00 (15.00)

Span	m (ft)	46.00 (150.90)	47.00 (154.20)	48.00 (157.50)	49.00 (160.80)	50.00 (164.00)	51.00 (167.30)	52.00 (170.60)
Centre Point Load (CPL)	kg (lbs)	11654.00 (25693.00)	11290.00 (24890.00)	10939.00 (24116.00)	10600.00 (23369.00)	10272.00 (22646.00)	9955.00 (21947.00)	9647.00 (21268.00)
Deflection	mm (in)	335.00 (13.19)	351.00 (13.82)	367.00 (14.45)	384.00 (15.12)	401.00 (15.79)	418.00 (16.46)	436.00 (17.17)
Third Point Load (TPL)	kg (lbs)	8740.00 (19268.00)	8467.00 (18667.00)	8204.00 (18087.00)	7950.00 (17527.00)	7704.00 (16984.00)	7466.00 (16460.00)	7236.00 (15953.00)
Deflection	mm (in)	406.00 (15.98)	424.00 (16.69)	442.00 (17.40)	461.00 (18.15)	481.00 (18.94)	501.00 (19.72)	521.00 (20.51)
Quarter Point Load (QPL)	kg (lbs)	5827.00 (12846.00)	5645.00 (12445.00)	5469.00 (12057.00)	5300.00 (11685.00)	5136.00 (11323.00)	4977.00 (10972.00)	4824.00 (10635.00)
Deflection	mm (in)	383.00 (15.08)	400.00 (15.75)	418.00 (16.46)	436.00 (17.17)	455.00 (17.91)	474.00 (18.66)	493.00 (19.41)
Fifth Point Load (FPL)	kg (lbs)	4856.00 (10706.00)	4704.00 (10371.00)	4558.00 (10049.00)	4417.00 (9738.00)	4280.00 (9436.00)	4148.00 (9145.00)	4020.00 (8863.00)
Deflection	mm (in)	401.00 (15.79)	419.00 (16.50)	438.00 (17.24)	456.00 (17.95)	476.00 (18.74)	495.00 (19.49)	515.00 (20.28)
Uniformly Distributed Load (UDL)	kg/m (lbs/ft)	507.00 (341.00)	480.00 (323.00)	456.00 (306.00)	433.00 (291.00)	411.00 (276.00)	390.00 (262.00)	371.00 (249.00)
Deflection	mm (in)	399.00 (15.71)	417.00 (16.42)	435.00 (17.13)	454.00 (17.87)	473.00 (18.62)	492.00 (19.37)	512.00 (20.16)

Span	m (ft)	53.00 (174.00)	54.00 (177.00)	55.00 (180.00)	56.00 (184.00)	57.00 (187.00)	58.00 (190.00)	60.00 (197.00)
Centre Point Load (CPL)	kg (lbs)	9350.00 (20613.23)	9061.00 (19976.09)	8780.00 (19356.59)	8507.00 (18754.73)	8242.00 (18170.50)	7984.00 (17601.71)	7488.00 (16508.22)
Deflection	mm (in)	455.00 (18.00)	474.00 (19.00)	493.00 (19.00)	513.00 (20.00)	533.00 (21.00)	554.00 (22.00)	598.00 (24.00)
Third Point Load (TPL)	kg (lbs)	7012.00 (15458.82)	6795.00 (14980.41)	6585.00 (14517.44)	6380.00 (14065.49)	6181.00 (13626.77)	5988.00 (13201.28)	5616.00 (12381.16)
Deflection	mm (in)	541.00 (21.00)	563.00 (22.00)	584.00 (23.00)	606.00 (24.00)	628.00 (25.00)	651.00 (26.00)	698.00 (27.00)
Quarter Point Load (QPL)	kg (lbs)	4675.00 (10306.61)	4530.00 (9986.94)	4390.00 (9678.29)	4254.00 (9378.47)	4121.00 (9085.25)	3992.00 (8800.86)	3744.00 (8254.11)
Deflection	mm (in)	513.00 (20.00)	534.00 (21.00)	555.00 (22.00)	576.00 (23.00)	598.00 (24.00)	620.00 (24.00)	665.00 (26.00)
Fifth Point Load (FPL)	kg (lbs)	3896.00 (8589.21)	3775.00 (8322.45)	3658.00 (8064.51)	3545.00 (7815.39)	3434.00 (7570.68)	3327.00 (7334.78)	3120.00 (6878.42)
Deflection	mm (in)	536.00 (21.00)	557.00 (22.00)	578.00 (23.00)	600.00 (24.00)	622.00 (24.00)	645.00 (25.00)	692.00 (27.00)
Uniformly Distributed Load (UDL)	kg/m (lbs/ft)	353.00 (237.21)	336.00 (225.78)	319.00 (214.36)	304.00 (204.28)	289.00 (194.20)	275.00 (184.79)	250.00 (167.99)
Deflection	mm (in)	533.00 (20.98)	554.00 (21.81)	575.00 (22.63)	597.00 (23.50)	619.00 (24.37)	641.00 (25.23)	688.00 (27.08)



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