

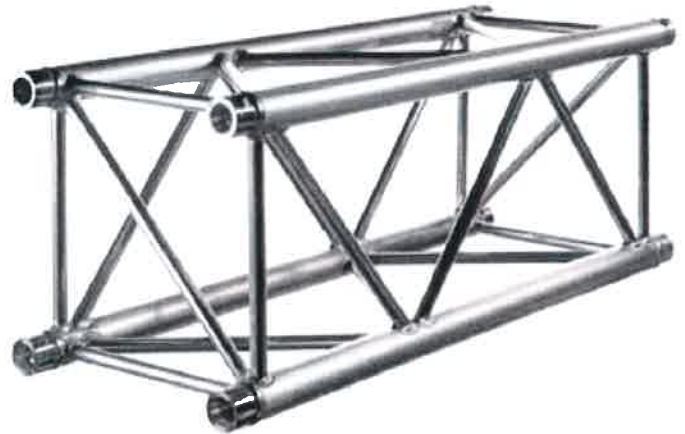
PROLYTE H40D / H40V TRUSS

Photo : Prolyte Sales BV
Project : Media Centrale, Groningen, H40 truss



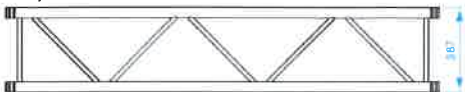
The H40 truss is constructed of main tubes of 48,3 x 3 mm and diagonals of 20 x 2 mm, and uses the CCS6 coupling system. Prolyte supplies a variety of H40 truss elements that

provide maximum flexibility, like standard or custom-made lengths, circles and arches and several types of corners. Prolyte can deliver custom-made pieces on request.



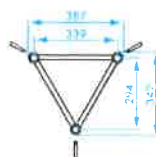
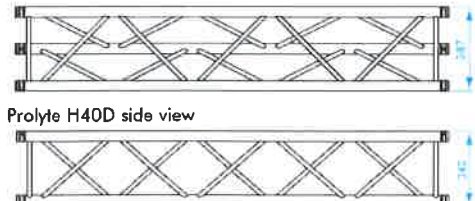
Prolyte H40L top view

Prolyte H40L side view



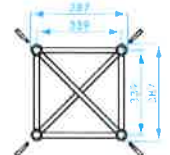
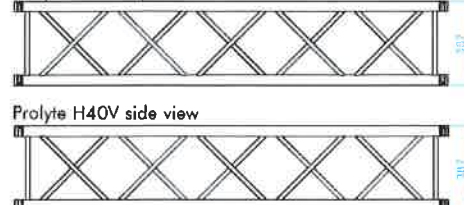
Prolyte H40D top view

Prolyte H40D side view



Prolyte H40V top view

Prolyte H40V side view



PROLYTE H40D / H40V TRUSS

PROLYTE H40D - ALLOWABLE LOADING

SPAN		UNIFORMLY DISTRIBUTED LOAD		DEFLECTION		CENTRE POINT LOAD		DEFLECTION		MAXIMUM ALLOWABLE POINT LOADS						SPAN
		UDL				CPL				SINGLE LOAD THIRD POINTS LOAD PER POINT		SINGLE LOAD FOURTH POINTS LOAD PER POINT		SINGLE LOAD FIFTH POINTS LOAD PER POINT		
m	ft	kg/m	lbs/ft	mm	inch	kg	lbs	mm	inch	kg	lbs	kg	lbs	kg	lbs	total weight
2	6.6	1103,1	742.34	3	0.12	1790,5	3951.7	2	0.08	1103,1	2434.6	733,7	1619.4	551,6	1217.3	10,0
3	9.8	733,7	493.7	6	0.24	1189,5	2625.3	5	0.20	892,1	1969.0	594,8	1312.6	493,7	1089.5	15,0
4	13.1	443,9	298.7	10	0.39	887,8	1959.3	8	0.31	665,8	1469.5	443,9	979.7	368,4	813.1	20,0
5	16.4	282,3	189.9	16	0.63	705,7	1557.5	13	0.51	529,3	1168.1	352,9	778.8	292,9	646.4	25,0
6	19.7	194,5	130.9	23	0.91	583,5	1287.8	18	0.71	437,6	965.9	291,8	643.9	242,2	534.4	30,0
7	23.0	141,6	95.3	31	1.22	495,5	1093.6	25	0.98	371,6	820.2	247,8	546.8	205,6	453.8	35,0
8	26.2	107,2	72.1	41	1.61	428,9	946.5	33	1.30	321,7	709.9	214,4	473.3	178,0	392.8	40,0
9	29.5	83,7	56.3	51	2.01	376,5	831.0	41	1.61	282,4	623.2	188,3	415.5	156,3	344.8	45,0
10	32.8	66,8	45.0	63	2.48	334,1	737.4	51	2.01	250,6	553.0	167,1	368.7	138,7	306.0	50,0
11	36.1	54,4	36.6	77	3.03	299,0	659.8	61	2.40	224,2	494.9	149,5	329.9	124,1	273.8	55,0
12	39.4	44,9	30.2	91	3.58	269,3	594.2	73	2.87	201,9	445.7	134,6	297.1	111,7	246.6	60,0
13	42.6	37,5	25.2	107	4.21	243,7	537.9	86	3.39	182,8	403.4	121,9	269.0	101,2	223.2	65,0
14	45.9	31,6	21.3	124	4.88	221,5	488.9	100	3.94	166,1	366.6	110,8	244.4	91,9	202.9	70,0
15	49.2	26,9	18.1	143	5.63	201,9	445.6	114	4.49	151,4	334.2	101,0	222.8	83,8	184.9	75,0
16	52.5	23,1	15.5	162	6.38	184,4	407.1	130	5.12	138,3	305.3	92,2	203.5	76,5	168.9	80,0
17	55.8	19,9	13.4	183	7.20	168,7	372.4	147	5.79	126,6	279.3	84,4	186.2	70,0	154.5	85,0
18	59.0	17,2	11.6	206	8.11	154,5	341.0	165	6.49	115,9	255.7	77,3	170.5	64,1	141.5	90,0
19	62.3	14,9	10.0	229	9.02	141,5	312.3	183	7.20	106,1	234.2	70,8	156.1	58,7	129.6	95,0
20	65.6	13,0	8.7	254	10	129,6	285.9	203	7.99	97,2	214.4	64,8	143.0	53,8	118.7	100,0

1 inch = 25,4 mm | 1m = 3,28 ft | 1 lbs = 0,453 kg

- Loading figures only valid for static loads and spans with two supporting points
- Spans must be supported at each end
- If dynamic loads or wind loads are involved, or more supporting points are applied, contact a structural engineer or Prolyte
- Loading figures are based on German DIN standards; to comply with BS 7905-2 / ANSI E1.2-2006 / CWA 15902-2, the loading data must be multiplied by 0.85
- The self-weight of the trusses has already been taken into account
- For spans longer than indicated and with a different loading set-up use the KYLo programme
- For structures contact Prolyte



Mark approval certificate No. 2253/04
Test report No. 2252/04
TUV certification only valid for loading table above.

40 SERIES - STANDARD AVAILABLE LENGTHS AND CODES

Meters	Feet	Code*
0,25 / 1,00 m in steps of 5 mm	0.82' / 3.28' in steps of 0.2"	
0,25	0.83	H40*-L025
0,30	0.98	H40*-L030
0,50	1.90	H40*-L050
0,75	2.46	H40*-L075
0,81	2.65	H40*-L081
1,00	3.28	H40*-L100
1,50	4.57	H40*-L150
2,00	6.56	H40*-L200
2,50	8.20	H40*-L250
3,00	9.84	H40*-L300
3,50	11.48	H40*-L350
4,00	13.12	H40*-L400
4,50	14.76	H40*-L450
5,00	16.40	H40*-L500

*on * indicate L for ladder, D for triangle or V for Square truss. Examples: H40V-L200

TECHNICAL SPECIFICATIONS H40 SERIES

Types	Ladder (L), Triangle (D), Square (V)
Alloy	EN AW 6082 T6
Main tubes (chords)	48,3 x 3 mm
Braces	20 x 2 mm
Coupling system	CCS6 series

Type		H40D	H40V	
Allowable Normal Force in Main Chord	N	30,54	30,54	kN
Allowable Normal Force in Diagonals	N	9,05	9,05	kN
Surface area Complete Truss	A	12,72	16,96	cm ²
Moment of Inertia Y-axis	I _y	2104,8	4179,5	cm ⁴
Moment of Inertia Z-axis	I _z	2089,8	4179,5	cm ⁴
Allowable bending moment Y-axis	M _y	8,98	20,70	kNm
Allowable bending moment Z-axis	M _z	10,35	20,70	kNm
Allowable shear force Z-axis	Q _z /V _z	11,08	12,80	kN
Allowable shear force Y-axis	Q _y /V _y	6,40	12,80	kN
Selfweight	kg	5	6,9	kg/m

PROLYTE H40V TRUSS

PROLYTE H40V - ALLOWABLE LOADING																
SPAN		UNIFORMLY DISTRIBUTED LOAD		DEFLECTION		MAXIMUM ALLOWABLE POINT LOADS										SPAN
		L/DL				CPL		DEFLECTION		TPL		QPL		FPL		
m	ft	kg/m	lbs/ft	mm	inch	kg	lbs	mm	inch	kg	lbs	kg	lbs	kg	lbs	total weight
2	6.6	1272,7	856.3	3	0.12	2545,3	5617.5	2	0.08	1272,7	2808.7	846,1	1867.4	636,3	1404.4	13,8
3	9.8	846,1	569.3	7	0.28	2538,4	5602.3	5	0.20	1269,2	2801.1	842,7	1859.8	634,6	1400.6	20,7
4	13.1	632,9	425.8	12	0.47	2056,6	4538.8	9	0.35	1265,8	2793.5	839,2	1852.2	632,9	1396.8	27,6
5	16.4	504,9	339.7	18	0.71	1639,0	3617.4	15	0.59	1229,3	2713.0	819,5	1808.7	631,2	1392.9	34,5
6	19.7	419,6	282.3	27	1.06	1359,5	3000.5	21	0.83	1019,7	2250.4	679,8	1500.3	564,2	1245.2	41,4
7	23.0	331,1	222.8	36	1.42	1158,9	2557.7	29	1.14	869,2	1918.3	579,5	1278.9	480,9	1061.5	48,3
8	26.2	251,9	169.5	47	1.85	1007,6	2223.7	38	1.50	755,7	1667.8	503,8	1111.9	418,1	922.8	55,2
9	29.5	197,6	132.9	60	2.36	889,1	1962.3	48	1.89	666,8	1471.7	444,6	981.1	369,0	814.3	62,1
10	32.8	158,7	106.8	74	2.91	793,6	1751.6	59	2.32	595,2	1313.7	396,8	875.8	329,4	726.9	69,0
11	36.1	130,0	87.5	89	3.50	714,9	1577.8	71	2.80	536,2	1183.4	357,5	788.9	296,7	654.8	75,9
12	39.4	108,1	72.8	106	4.17	648,7	1431.7	85	3.35	486,5	1073.8	324,4	715.9	269,2	594.2	82,8
13	42.6	91,1	61.3	125	4.92	592,2	1306.9	100	3.94	444,1	980.2	296,1	653.5	245,8	542.4	89,7
14	45.9	77,6	52.2	144	5.67	543,2	1198.9	116	4.57	407,4	899.2	271,6	599.5	225,4	497.5	96,6
15	49.2	66,7	44.9	166	6.54	500,3	1104.3	133	5.24	375,3	828.2	250,2	552.1	207,6	458.3	103,5
16	52.5	57,8	38.9	189	7.74	462,4	1020.5	151	5.94	346,8	765.4	231,2	510.2	191,9	423.5	110,4
17	55.8	50,4	33.9	213	8.39	428,5	945.7	171	6.73	321,4	709.3	214,2	472.8	177,8	392.5	117,3
18	59.0	44,2	29.8	239	9.41	398,0	878.3	191	7.52	298,5	658.8	199,0	439.2	165,2	364.5	124,2
19	62.3	39,0	26.2	266	10.47	370,3	817.3	213	8.39	277,7	613.0	185,2	408.6	153,7	339.2	131,1
20	65.6	34,5	23.2	295	11.61	345,1	761.6	236	9.29	258,8	571.2	172,5	380.8	143,2	316.1	138,0

1 inch = 25,4 mm | 1m = 3,28 ft | 1 lbs = 0,453 kg

- Loading figures only valid for static loads and spans with two supporting points
- Spans must be supported at each end
- If dynamic loads or wind loads are involved, or more supporting points are applied, contact a structural engineer or Prolyte
- Loading figures are based on German DIN standards; to comply with BS 7905-2 / ANSI E1.2-2006 / CWA 15902-2, the loading data must be multiplied by 0.85
- The self-weight of the trusses has already been taken into account
- For spans longer than indicated and with a different loading set-up use the KYLo programme
- For structures contact Prolyte



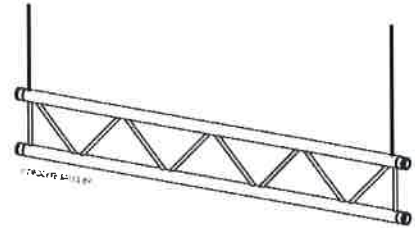
Mark approval certificate No. 2246/04
 Test report No. 2245/04
 TÜV certification only valid for loading table above.

PROLYTE H40L TRUSS

PROLYTE H40L - ALLOWABLE LOADING (SPAN SUPPORTED ON TOP CHORD)

SPAN		UNIFORMLY DISTRIBUTED LOAD		DEFLECTION		CPL		DEFLECTION	
m	ft	kg/m	lbs/ft	mm	inch	kg	lbs	mm	inch
1	3.3	1276,6	859.0	0	0	1276,6	2817.5	0	0
2	6.6	541,0	364.0	1	0.04	541,0	1194.0	1	0.04
3	9.8	182,0	122.5	1	0.04	273,0	602.5	1	0.04
4	13.1	68,0	45.8	2	0.08	136,0	300.2	1	0.04
5	16.4	32,0	21.5	2	0.08	80,0	176.6	1	0.04
6	19.7	17,0	11.4	2	0.08	51,0	112.6	2	0.08

1 inch = 25.4 mm | 1 m = 3.28 ft | 1 lbs = 0.453 kg

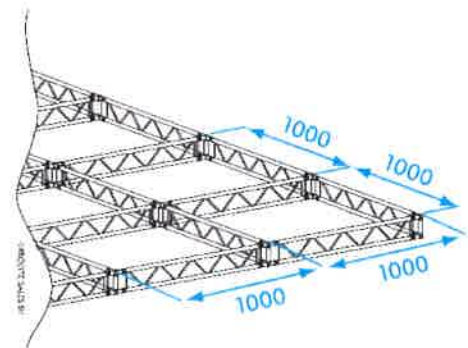


Spans must be supported at each end.
Loads must be suspended from bottom chord only.

PROLYTE H40L - ALLOWABLE LOADING (TOP CHORD SIDEWAYS SUPPORTED EACH 1 METRE)

SPAN		UNIFORMLY DISTRIBUTED LOAD		DEFLECTION		CPL		DEFLECTION	
m	ft	kg/m	lbs/ft	mm	inch	kg	lbs	mm	inch
4	13.1	316,9	213.2	12	0.47	1014,0	2237.9	9	0.35
5	16.4	252,9	170.2	18	0.71	808,5	1784.4	15	0.59
6	19.6	210,3	141.5	26	1.02	671,0	1480.9	21	0.83
7	23.0	163,5	110.0	36	1.42	572,4	1263.2	28	1.10
8	26.2	124,5	83.8	46	1.81	498,0	1099.1	37	1.46
9	29.5	97,7	65.8	59	2.32	439,8	970.7	47	1.85
10	32.8	78,6	52.9	73	2.87	393,0	867.4	58	2.28
11	36.1	64,4	43.4	88	3.46	354,4	782.2	70	2.76
12	39.4	53,7	36.1	105	4.13	322,0	710.7	84	3.31

1 inch = 25,4 mm | 1 m = 3.28 ft | 1 lbs = 0.453 kg

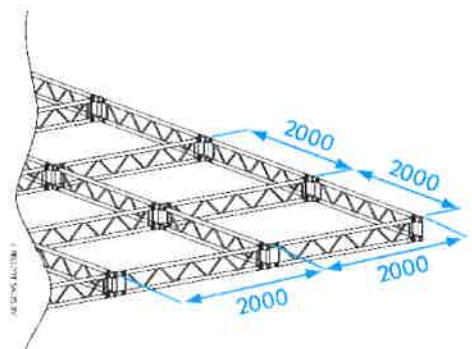


Spans must be supported at each end.
Loads must be suspended from bottom chord only.

PROLYTE H40L - ALLOWABLE LOADING (TOP CHORD SIDEWAYS SUPPORTED EVERY 2 METRES)

SPAN		UNIFORMLY DISTRIBUTED LOAD		DEFLECTION		CPL		DEFLECTION	
m	ft	kg/m	lbs/ft	mm	inch	kg	lbs	mm	inch
4	13.1	133,0	89.5	3	0.12	266,0	587.1	2	0.08
5	16.4	84,0	56.5	5	0.20	210,1	463.7	4	0.16
6	19.7	57,4	38.7	7	0.28	172,3	380.3	6	0.24
7	23.0	41,4	27.9	9	0.35	144,9	319.9	8	0.31
8	26.2	31,0	20.9	12	0.35	124,0	273.7	10	0.39
9	29.5	23,9	16.1	16	0.63	107,4	237.0	13	0.51
10	32.8	18,8	12.6	19	0.75	93,8	207.0	16	0.63
11	36.1	15,0	10.1	23	0.91	82,4	181.9	19	0.75
12	39.4	12,1	8.1	28	1.10	72,7	160.4	22	0.87

1 inch = 25,4 mm | 1 m = 3.28 ft | 1 lbs = 0.453 kg



Spans must be supported at each end.
Loads must be suspended from bottom chord only.

HEAVY DUTY TRUSS



System characteristics

The Prolyte Heavy-Duty truss consists of the S and B series, ranging from the S36 to the B100 truss, all available in several types. The S and B series are designed as robust truss systems; they have thick-walled chords, heavy-duty bracing and an exceptionally strong coupler system.

The main characteristics of the Heavy-Duty truss are a relative compactness and ultimate strength, while a user-friendly design, durability and unrivalled loading capacities make this truss type a flexible and reliable choice for many events.

System applications

The Heavy-Duty trusses are the ultimate solution for structures that have to meet high load-bearing demands and are subjected to high-frequency use, such as functioning as a supporting structure or overhead rig for more complex constructions. Their robust features make them suitable for outdoor use as well as indoor applications.

The S and B series are mainly used in the rental, stage-building, event and exhibition markets.

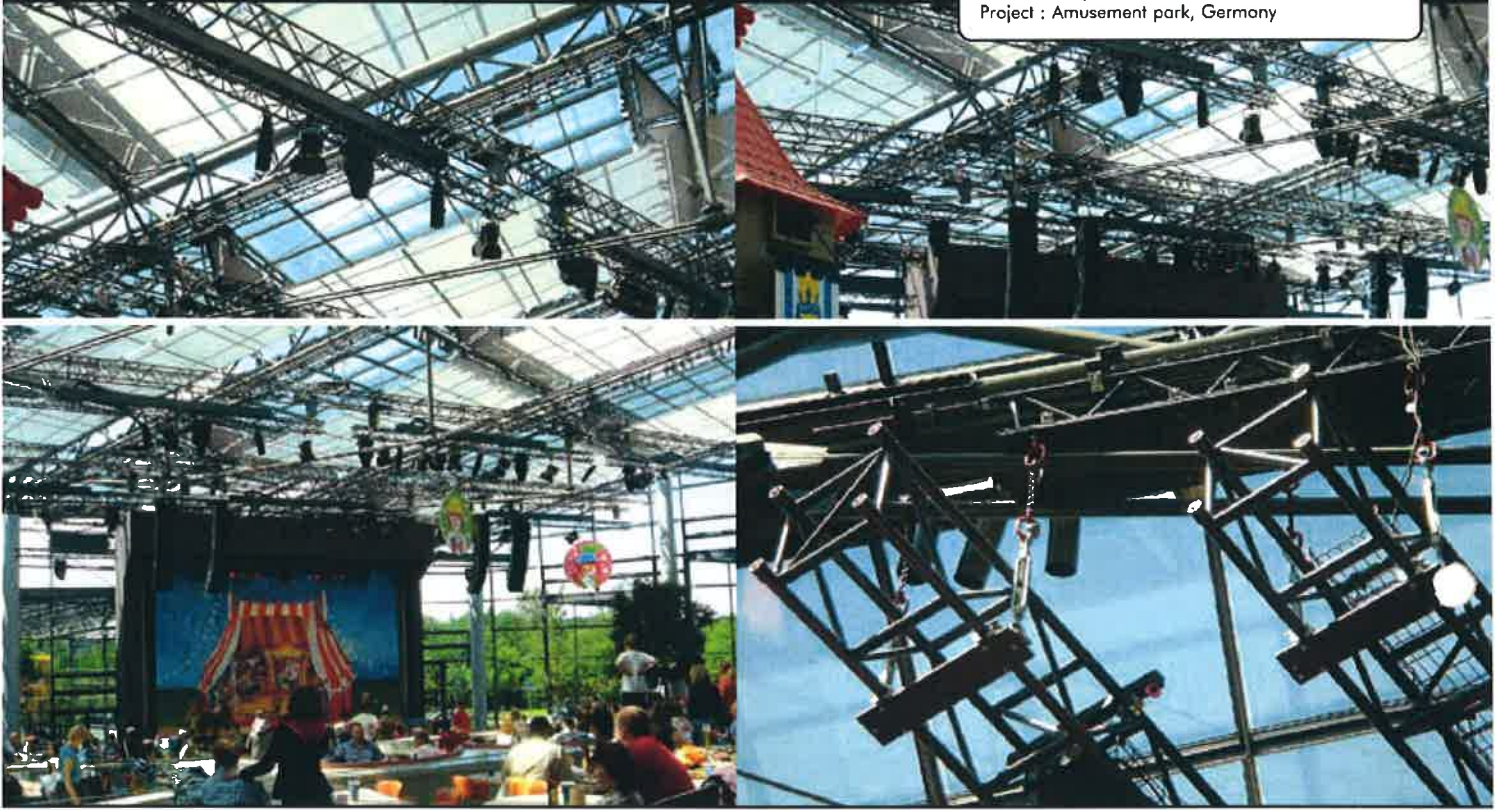
Coupling system

Prolyte Heavy-Duty trusses, or S and B series, use the CCS7 conical coupling system. The CCS7 allows fast, efficient and reliable coupling of your trusses and corners.



PROLYTE S36R / S36V TRUSS

Photo : Prolyte Sales BV
Project : Amusement park, Germany

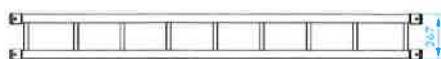


The S36 truss is constructed of main tubes of 50 x 4 mm and diagonals of 25 x 3 mm, and uses the CCS7 coupling system. Prolyte supplies a variety of S36 truss elements that provide maximum flexibility, like standard or custom-made lengths, circles and arches and several types of corners. Prolyte can deliver custom-made pieces on request.

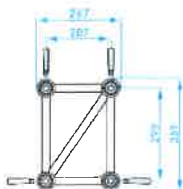
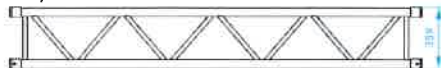
The S36V has 4-sided diagonal webbing and can therefore handle vertical as well as horizontal loads. The S36R can only handle vertical loading. Thanks to the clever spigot pin orientation in the couplers, assembly of the truss is foolproof.



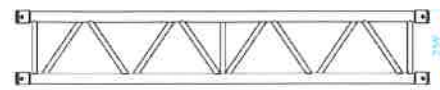
Prolyte S36R top view



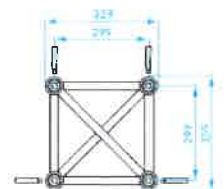
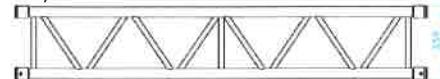
Prolyte S36R side view



Prolyte S36V top view



Prolyte S36V side view



PROLYTE S36R / S36V TRUSS

PROLYTE S36R - ALLOWABLE LOADING

SPAN		UNIFORMLY DISTRIBUTED LOAD		DEFLECTION		CENTRE POINT LOAD		DEFLECTION		SINGLE LOAD THIRD POINTS		SINGLE LOAD FOURTH POINTS		SINGLE LOAD FIFTH POINTS		SPAN
		UDL				CPL				TPL		QPL		FPL		
m	ft	kg/m	lbs/ft	mm	inch	kg	lbs	mm	inch	kg	lbs	kg	lbs	kg	lbs	total weight
2	6.6	2335,3	1571.4	3	0.11	4670,7	10308.2	3	0.11	2335,3	5154.1	1553,4	3428.3	1167,7	2577.1	21,0
3	9.8	1553,4	1045.2	7	0.27	3302,7	7289.1	6	0.23	2330,1	5142.5	1548,1	3416.8	1165,0	2571.3	31,5
4	13.1	1162,4	782.2	13	0.15	2467,9	5446.6	11	0.43	1850,9	4084.9	1233,9	2723.3	1024,2	2260.3	42,0
5	16.4	785,9	528.8	21	0.82	1964,8	4336.4	17	0.66	1473,6	3252.3	982,4	2168.2	815,4	1799.6	52,5
6	19.7	542,6	365.1	30	1.18	1627,7	3592.4	24	0.94	1220,8	2694.3	813,9	1796.2	675,5	1490.9	63,0
7	23.0	395,8	266.4	41	1.61	1385,5	3057.7	33	1.29	1039,1	2293.3	692,7	1528.9	575,0	1268.9	73,5
8	26.2	300,6	202.3	53	2.08	1202,4	2653.8	43	1.69	901,8	1990.3	601,2	1326.9	499,0	1101.3	84,0
9	29.5	235,3	158.3	67	2.63	1058,9	2337.0	54	2.12	794,2	1752.8	529,5	1168.5	439,4	969.9	94,5
10	32.8	188,6	126.9	83	3.26	943,0	2081.3	67	2.63	707,3	1561.0	471,5	1040.7	391,4	863.7	105,0
11	36.1	154,1	103.7	101	3.97	847,3	1870.0	81	3.18	635,5	1402.5	423,6	935.0	351,6	776.0	115,5
12	39.4	127,8	86.0	120	4.72	766,6	1691.9	96	3.77	575,0	1269.0	383,3	846.0	318,1	702.2	126,0
13	42.6	107,3	72.2	141	5.55	697,6	1539.5	113	4.44	523,2	1154.6	348,8	769.8	289,5	638.9	136,5
14	45.9	91,1	61.3	163	6.41	637,6	1407.2	131	5.15	478,2	1055.4	318,8	703.6	264,6	584.0	147,0
15	49.2	78,0	52.5	187	7.36	584,9	1291.0	150	5.90	438,7	968.2	292,5	645.5	242,8	535.8	157,5
16	52.5	67,3	45.3	213	8.38	538,2	1187.8	171	6.73	403,7	890.9	269,1	593.9	223,4	493.0	168,0
17	55.8	58,4	39.3	241	9.48	496,4	1095.5	193	7.59	372,3	821.6	248,2	547.7	206,0	454.6	178,5
18	59.0	51,0	34.3	270	10.63	458,6	1012.1	216	8.50	343,9	759.1	229,3	506.0	190,3	420.0	189,0
19	62.3	44,7	30.0	301	11.85	424,2	936.3	241	9.48	318,2	702.2	212,1	468.1	176,1	388.5	199,5
20	65.6	39,3	26.4	333	13.11	392,8	866.9	267	10.51	294,6	650.1	196,4	433.4	163,0	359.7	210,0

1 inch = 25.4 mm | 1m = 3.28 ft | 1 lbs = 0.453 kg

- Loading figures only valid for static loads and spans with two supporting points
- Spans must be supported at each end
- If dynamic loads or wind loads are involved, or more supporting points are applied, contact a structural engineer or Prolyte
- Loading figures are based on German DIN standards; to comply with BS 7905-2 / ANSI E1.2-2006 / CWA 15902-2, the loading data must be multiplied by 0.85
- The self-weight of the trusses has already been taken into account
- For spans longer than indicated and with a different loading set-up use the KYLo programme
- For structures contact Prolyte



Mark approval certificate No. 2957/05
 Test report No. 2956/05
 TÜV certification only valid for loading table above.

S36 SERIES - STANDARD AVAILABLE LENGTHS AND CODES

Meters	Feet	Code*
0,25 / 1,00 m in steps of 5 mm	0.82' / 3.28' in steps of 0.2"	
0,50	1.64	S36*-L050
0,60	1.97	S36*-L060
0,80	2.62	S36*-L080
1,00	3.28	S36*-L100
1,20	3.94	S36*-L120
1,50	4.92	S36*-L150
1,60	5.25	S36*-L160
2,00	6.56	S36*-L200
2,40	7.87	S36*-L240
2,50	8.20	S36*-L250
3,00	9.84	S36*-L300
3,20	10.50	S36*-L320
3,50	11.48	S36*-L350
4,00	13.12	S36*-L400

*on * indicate R for rectangle, V for Square truss.
 Example: S36V-L200

TECHNICAL SPECIFICATIONS S36 SERIES

Types	Rectangle (R), Square (V)
Alloy	EN AW 6082 T6
Main tubes (chords)	50 x 4 mm
Braces	25 x 3 mm
Coupling system	CCS7 series

Type		S36R	S36V	
Allowable Normal Force in Main Chord	N	41,62	41,62	kN
Allowable Normal Force in Diagonals	N	16,59	16,59	kN
Surface area Complete Truss	A	23,12	23,12	cm ²
Moment of Inertia Y-axis	I _y	4445,1	4445,1	cm ⁴
Moment of Inertia Z-axis	I _z	1250,0	4445,1	cm ⁴
Allowable bending moment Y-axis	M _y	24,89	24,89	kNm
Allowable bending moment Z-axis	M _z	—	24,89	kNm
Allowable shear force Z-axis	Q _z /V _z	23,46	23,46	kN
Allowable shear force Y-axis	Q _y /V _y	—	23,46	kN
Selfweight	kg	10,5	12	kg/m

PROLYTE S36V TRUSS

PROLYTE S36V - ALLOWABLE LOADING																
SPAN		UNIFORMLY DISTRIBUTED LOAD		DEFLECTION		MAXIMUM ALLOWABLE POINT LOADS										SPAN
						CENTRE POINT LOAD		DEFLECTION		SINGLE LOAD THIRD POINTS LOAD PER POINT		SINGLE LOAD FOURTH POINTS LOAD PER POINT		SINGLE LOAD FIFTH POINTS LOAD PER POINT		
m	ft	kg/m	lbs/ft	mm	inch	kg	lbs	mm	inch	kg	lbs	kg	lbs	kg	lbs	total weight
2	6.6	2333.8	1570.4	3	0.11	4667.7	10301.6	3	0.11	2333.8	5150.8	1551.9	3425.0	1166.9	2575.4	24,0
3	9.8	1551,9	1044.2	7	0.27	3300,5	7284.2	6	0.23	2327,8	5137.5	1545,9	3411.8	1163,9	2568.8	36,0
4	13.1	1160,9	781.1	13	0.51	2464,9	5440.0	11	0.43	1848,6	4080.0	1232,4	2720.0	1022,9	2257.6	48,0
5	16.4	784,4	527.8	21	0.82	1961,1	4328.1	17	0.66	1470,8	3246.1	980,5	2164.1	813,9	1796.2	60,0
6	19.7	541,1	364.1	30	1.18	1623,2	3582.5	24	0.94	1217,4	2686.9	811,6	1791.2	673,6	1486.7	72,0
7	23.0	394,3	265.3	41	1.61	1380,2	3046.1	33	1.29	1035,2	2284.6	690,1	1523.1	572,8	1264.1	84,0
8	26.2	299,1	201.3	53	2.08	1196,4	2640.5	43	1.69	897,3	1980.4	598,2	1320.3	496,5	1095.8	96,0
9	29.5	233,8	157.3	67	2.63	1052,2	2322.1	54	2.12	789,1	1741.6	526,1	1161.1	436,6	963.7	108,0
10	32.8	187,1	125.9	83	3.26	935,5	2064.8	67	2.63	701,7	1548.6	467,8	1032.4	388,3	856.9	120,0
11	36.1	152,6	102.6	101	3.97	839,0	1851.8	81	3.18	629,3	1388.8	419,5	925.9	348,2	768.5	132,0
12	39.4	126,3	85.0	120	4.72	757,6	1672.1	96	3.77	568,2	1254.1	378,8	836.0	314,4	693.9	144,0
13	42.6	105,8	71.2	141	5.55	687,8	1518.0	113	4.44	515,9	1138.5	343,9	759.0	285,4	630.0	156,0
14	45.9	89,6	60.3	163	6.41	627,1	1384.0	131	5.15	470,3	1038.0	313,6	692.0	260,2	574.4	168,0
15	49.2	76,5	51.5	187	7.36	573,7	1266.2	150	5.90	430,3	949.6	286,8	633.1	238,1	525.5	180,0
16	52.5	65,8	44.3	213	8.38	526,2	1161.4	171	6.73	394,7	871.0	263,1	580.7	218,4	482.0	192,0
17	55.8	56,9	38.3	241	9.48	483,6	1067.3	193	7.59	362,7	800.5	241,8	533.7	200,7	442.9	204,0
18	59.0	49,5	33.3	270	10.63	445,1	982.3	216	8.50	333,8	736.7	222,5	491.1	184,7	407.7	216,0
19	62.3	43,2	29.0	301	11.85	410,0	904.8	214	8.42	307,5	678.6	205,0	452.4	170,1	375.5	228,0
20	65.6	37,8	25.4	333	13.11	377,8	833.7	267	10.51	283,3	625.3	188,9	416.9	156,8	346.0	240,0

1 inch = 25.4 mm | 1m = 3.28 ft | 1 lbs = 0.453 kg

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- If dynamic loads or wind loads are involved, or more supporting points are applied, contact a structural engineer or Prolyte
- Loading figures are based on German DIN standards; to comply with BS 7905-2 / ANSI E1.2-2006 / CWA 15902-2, the loading data must be multiplied by 0.85
- The self-weight of the trusses has already been taken into account
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- For structures contact Prolyte



Mark approval certificate No. 2959/05
 Test report No. 2958/05
 TÜV certification only valid for loading table above.

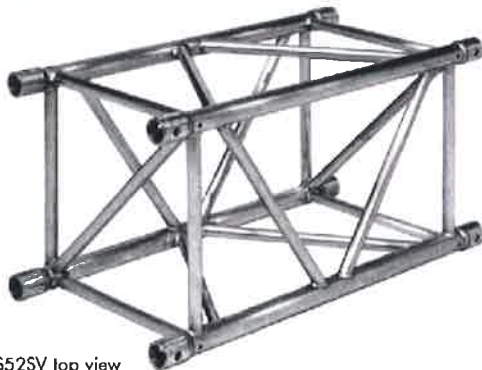
PROLYTE S52F / S52V / S52SV TRUSS

Photo : AED Rent, Belgium
Project : Party tent

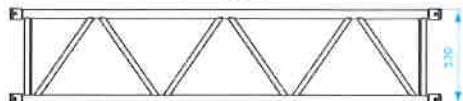


The S52 truss is constructed of main tubes of 50 x 4 mm and diagonals of 25 x 3 mm (S52F) or 30 x 3mm (S52V and SV), and uses the CCS7 coupling system. Prolyte supplies a variety of S52 truss elements that provide maximum flexibility, like standard or custom-made lengths, circles and arches and several types of corners. Prolyte can deliver custom-made pieces on request. For obvious reasons, the S52F is not available in curved sections.

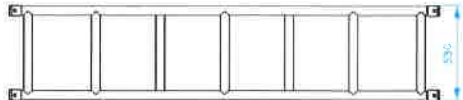
The S52SV has 4-sided diagonal webbing and can therefore handle vertical as well as horizontal loads. The S52V/S52F can only handle vertical loading. The S52F folding truss can save up to 70-80% of warehouse and truck space, while the smart placing of the hinges prevents personal injuries. Thanks to the clever spigot pin orientation in the couplers, assembly of the truss is foolproof.



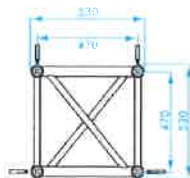
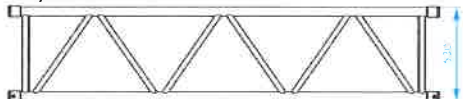
Prolyte S52SV top view



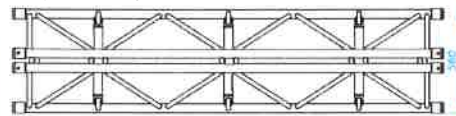
Prolyte S52V top view



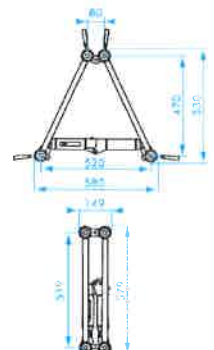
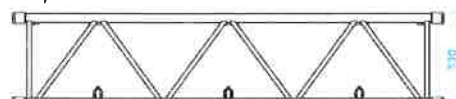
Prolyte S52SV and S52V side view



Prolyte S52F top view



Prolyte S52F side view



PROLYTE S52F TRUSS

PROLYTE S52F - ALLOWABLE LOADING																
SPAN		UNIFORMLY DISTRIBUTED LOAD		DEFLECTION		MAXIMUM ALLOWABLE POINT LOADS										SPAN
						CENTRE POINT LOAD		DEFLECTION		SINGLE LOAD THIRD POINTS LOAD PER POINT		SINGLE LOAD FOURTH POINTS LOAD PER POINT		SINGLE LOAD FIFTH POINTS LOAD PER POINT		
m	ft	kg/m	lbs/ft	mm	inch	kg	lbs	mm	inch	kg	lbs	kg	lbs	kg	lbs	total weight
3	9.8	957,4	644.2	3	0.11	2393,5	5282.5	2	0.07	1196,7	2641.2	794,8	1754.2	598,4	1320.6	36,0
4	13.1	716,2	481.9	5	0.19	1944,1	4290.7	3	0.11	1193,7	2634.6	791,8	1747.6	596,9	1317.3	48,0
5	16.4	666,8	448.7	9	0.35	1549,9	3420.6	5	0.19	1162,4	2565.5	775,0	1710.3	595,4	1314.0	60,0
6	19.7	633,5	426.2	15	0.59	1414,7	3122.2	8	0.31	1061,0	2341.7	707,3	1561.1	587,1	1295.7	72,0
7	23.0	501,4	337.4	21	0.82	1206,5	2662.7	12	0.47	904,9	1997.0	603,2	1331.3	500,7	1105.0	84,0
8	26.2	429,3	288.9	31	1.22	1144,9	2526.7	16	0.62	858,7	1895.1	572,4	1263.4	475,1	1048.6	96,0
9	29.5	374,4	251.9	43	1.69	1095,1	2416.9	22	0.86	821,3	1812.7	547,6	1208.5	454,5	1003.0	108,0
10	32.8	301,0	202.5	53	2.08	978,2	2158.9	28	1.10	733,6	1619.1	489,1	1079.4	405,9	895.9	120,0
11	36.1	246,7	166.0	65	2.55	949,6	2095.9	36	1.41	712,2	1571.9	474,8	1047.9	394,1	869.8	132,0
12	39.4	205,3	138.2	77	3.03	924,1	2039.4	46	1.81	693,0	1529.6	462,0	1019.7	383,5	846.4	144,0
13	42.6	173,2	116.5	90	3.54	900,6	1987.7	58	2.28	675,5	1490.7	450,3	993.8	373,8	824.9	156,0
14	45.9	147,7	99.4	105	4.13	827,0	1825.3	67	2.63	620,3	1368.9	413,5	912.6	343,2	757.5	168,0
15	49.2	127,1	85.5	120	4.72	810,3	1788.3	82	3.22	607,7	1341.2	405,1	894.1	336,3	742.1	180,0
16	52.5	110,3	74.2	137	5.39	749,8	1654.7	93	3.66	562,3	1241.0	374,9	827.4	311,1	686.7	192,0
17	55.8	96,3	64.8	154	6.06	736,7	1625.9	111	4.37	552,5	1219.4	368,3	812.9	305,7	674.7	204,0
18	59.0	84,6	56.9	173	6.81	685,3	1512.4	125	4.92	513,9	1134.3	342,6	756.2	284,4	627.6	216,0
19	62.3	74,7	50.3	193	7.59	638,7	1409.5	139	5.47	479,0	1057.2	319,3	704.8	265,0	585.0	228,0
20	65.6	66,2	44.6	214	8.42	629,3	1388.9	162	6.37	472,0	1041.7	314,7	694.5	261,2	576.4	240,0
21	68.9	59,0	39.7	235	9.25	619,2	1366.6	188	7.40	464,4	1024.9	309,6	683.3	257,0	567.1	252,0
22	72.2	52,7	35.4	258	10.15	579,3	1278.6	207	8.14	434,5	958.9	289,7	639.3	240,4	530.6	264,0
23	75.4	47,2	31.7	282	11.10	542,4	1197.1	226	8.89	406,8	897.8	271,2	598.5	225,1	496.8	276,0
24	78.7	42,3	28.5	307	12.08	508,0	1121.3	246	9.68	381,0	840.9	254,0	560.6	210,8	465.3	288,0

1 inch = 25,4 mm | 1m = 3.28 ft | 1 lbs = 0,453 kg

- Loading figures only valid for static loads and spans with two supporting points
- Spans must be supported at each end
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- Loading figures are based on German DIN standards; to comply with BS 7905-2 / ANSI E1.2-2006 / CWA 15902-2, the loading data must be multiplied by 0.85
- The self-weight of the trusses has already been taken into account
- For spans longer than indicated and with a different loading set-up use the KYLo programme
- For structures contact Prolyte



Mark approval certificate No. 860/96
 Test report No. 859/96
 TÜV certification only valid for loading table above.

PROLYTE S52V / S52SV TRUSS

PROLYTE S52SV AND S52V - ALLOWABLE LOADING

SPAN		UNIFORMLY DISTRIBUTED LOAD		DEFLECTION		CENTRE POINT LOAD		DEFLECTION		MAXIMUM ALLOWABLE POINT LOADS						SPAN
										SINGLE LOAD THIRD POINTS		SINGLE LOAD FOURTH POINTS		SINGLE LOAD FIFTH POINTS		
		UDL				CPL				LOAD PER POINT		LOAD PER POINT		LOAD PER POINT		
m	ft	kg/m	lbs/ft	mm	inch	kg	lbs	mm	inch	kg	lbs	kg	lbs	kg	lbs	total weight
2	6.6	2864,0	1927.1	2	0.07	5728,0	12641.6	2	0.07	2864,0	6320.8	1904,3	4202.8	1432,0	3160.4	30,0
3	9.8	1904,3	1281.4	5	0.19	5193,9	11462.8	4	0.15	2856,5	6304.3	1896,8	4186.3	1428,2	3152.1	45,0
4	13.1	1424,5	958.5	9	0.35	3882,3	8568.2	7	0.27	2849,0	6287.7	1889,3	4169.7	1424,5	3143.9	60,0
5	16.4	1136,6	764.8	13	0.51	3092,3	6824.7	11	0.43	2319,2	5118.5	1546,2	3412.4	1283,3	2832.3	75,0
6	19.7	854,4	574.9	19	0.74	2563,2	5656.9	15	0.59	1922,4	4242.7	1281,6	2828.5	1063,7	2347.6	90,0
7	23.0	623,7	419.7	26	1.02	2183,1	4818.1	21	0.82	1637,3	3613.5	1091,5	2409.0	906,0	1999.5	105,0
8	26.2	474,0	319.0	34	1.33	1896,1	4184.8	27	1.06	1422,1	3138.6	948,1	2092.4	786,9	1736.7	120,0
9	29.5	371,4	249.9	43	1.69	1671,3	3688.5	35	1.37	1253,5	2766.4	835,6	1844.3	693,6	1530.7	135,0
10	32.8	298,0	200.5	53	2.08	1489,9	3288.2	43	1.69	1117,4	2466.2	745,0	1644.1	618,3	1364.6	150,0
11	36.1	243,7	164.0	65	2.55	1340,1	2957.7	52	2.04	1005,1	2218.3	670,1	1478.8	556,2	1227.4	165,0
12	39.4	202,3	136.2	77	3.03	1214,1	2679.5	62	2.44	910,6	2009.6	607,0	1339.7	503,8	1112.0	180,0
13	42.6	170,2	114.5	90	3.54	1106,3	2441.5	72	2.83	829,7	1831.2	553,1	1220.8	459,1	1013.2	195,0
14	45.9	144,7	97.4	105	4.13	1012,8	2235.2	84	3.30	759,6	1676.4	506,4	1117.6	420,3	927.6	210,0
15	49.2	124,1	83.5	120	4.72	930,8	2054.2	96	3.77	698,1	1540.7	465,4	1027.1	386,3	852.5	225,0
16	52.5	107,3	72.2	137	5.39	858,1	1893.8	109	4.29	643,5	1420.3	429,0	946.9	356,1	785.9	240,0
17	55.8	93,3	62.8	154	6.06	793,0	1750.2	123	4.84	594,8	1312.7	396,5	875.1	329,1	726.3	255,0
18	59.0	81,6	54.9	173	6.81	734,4	1620.8	138	5.43	550,8	1215.6	367,2	810.4	304,8	672.6	270,0
19	62.3	71,7	48.2	193	7.59	681,1	1503.3	154	6.06	510,9	1127.4	340,6	751.6	282,7	623.9	285,0
20	65.6	63,2	42.6	214	8.42	632,5	1395.8	171	6.73	474,3	1046.9	316,2	697.9	262,5	579.3	300,0
21	68.9	56,0	37.7	235	9.25	587,7	1297.0	188	7.40	440,8	972.8	293,8	648.5	243,9	538.3	315,0
22	72.2	49,7	33.4	258	10.15	546,3	1205.7	207	8.14	409,7	904.3	273,2	602.9	226,7	500.4	330,0
23	75.4	44,2	29.7	282	11.10	507,9	1120.9	226	8.89	380,9	840.7	253,9	560.5	210,8	465.2	345,0
24	78.7	39,3	26.5	307	12.08	472,0	1041.8	246	9.68	354,0	781.4	236,0	520.9	195,9	432.3	360,0

1 inch = 25,4 mm | 1m = 3,28 ft | 1 lbs = 0,453 kg

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- For structures contact Prolyte



S52SV
Mark approval certificate No. 2993/05
Test report No. 2992/05
TÜV certification only valid for loading table above.



S52V
Mark approval certificate No. 2991/05
Test report No. 2990/05
TÜV certification only valid for loading table above.

PROLYTE S52F / S52V / S52SV TRUSS

TECHNICAL SPECIFICATIONS S52 SERIES

Types	Folding (F), Square (V)
Alloy	EN AW 6082 T6
Main tubes (chords)	50 x 4 mm
Braces	S52F - 25 x 3 mm S52V/SV - 30 x 3 mm
Coupling system	CCS7 series

Type		S52F	S52V	S52SV	
Allowable Normal Force in Main Chord	N	41,62	41,62	41,62	kN
Allowable Normal Force in Diagonals	N	16,59	20,36	20,36	kN
Surface area Complete Truss	A	23,12	23,12	23,12	cm ²
Moment of Inertia Y-axis	I _y	10906,2	10906,2	10906,2	cm ⁴
Moment of Inertia Z-axis	I _z	—	—	10906,2	cm ⁴
Allowable bending moment Y-axis	M _y	39,12	39,12	39,12	kNm
Allowable bending moment Z-axis	M _z	—	—	39,12	kNm
Allowable shear force Z-axis	Q _z /V _z	18,0	28,79	28,79	kN
Allowable shear force Y-axis	Q _y /V _y	—	—	28,79	kN
Selfweight	kg	12	15	15	kg/m

S52V / SV / S52F SERIES - STANDARD AVAILABLE LENGTHS AND CODES

Meters	Feet	Code*
0,25 / 1,00 m in steps of 5 mm	0.82' / 3.28' in steps of 0.2'	
0,50	1.64	S52V/•-L050
0,60	1.97	S52V/•-L060 S52F-L050
0,80	2.62	S52V/•-L080 S52F-L060
1,00	3.28	S52V/•-L100
1,20	3.94	S52V/•-L120 S52F-L120
1,50	4.57	S52V/•-L150
1,60	5.25	S52V/•-L160 S52F-L160
2,00	6.56	S52V/•-L200
2,40	7.87	S52V/•-L240 S52F-L240
2,50	8.20	S52V/•-L250
3,00	9.84	S52V/•-L300
3,20	10.50	S52V/•-L320
4,00	13.12	S52V/•-L400

*on • indicate F for Folding, V for Square and SV for Square truss with 4-sided webbing. Example: S52V-L200

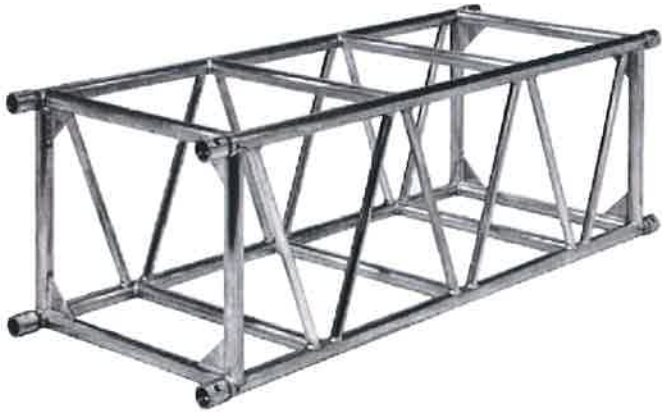
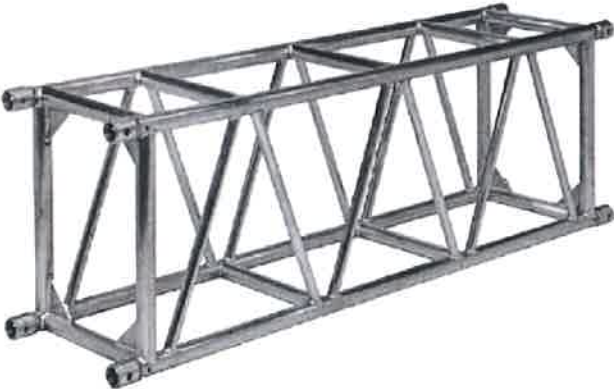
PROLYTE S66R / S66V TRUSS

Photo : Italstage, Italy

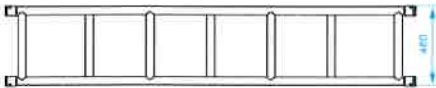


The S66 truss is constructed of main tubes of 50 x 4 mm and diagonals of 30 x 3 mm, and uses the CCS7 coupling system. Both the S66R and S66V have two-sided webbing and are capable of absorbing vertical loads only.

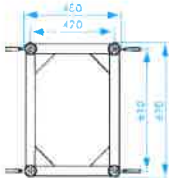
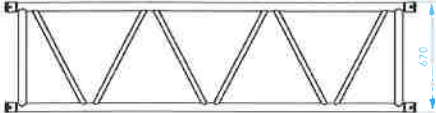
Prolyte supplies a variety of S66 truss elements that provide maximum flexibility, like standard or custom-made lengths, circles and arches and several types of corners. Prolyte can deliver custom-made pieces on request.



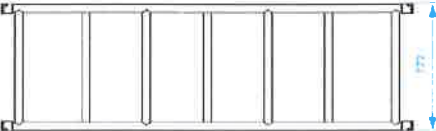
Prolyte S66R top view



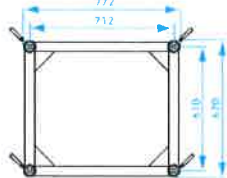
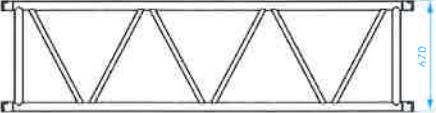
Prolyte S66R side view



Prolyte S66V top view



Prolyte S66V side view



PROLYTE S66R / S66V PRE RIGGED TRUSS

Photo : Qatar Vision, Qatar

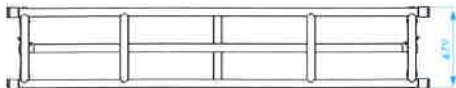


The Prolyte S66R and V trusses can be supplied with a robust drop-down system to enable the fitting of either a 4-bar, 6-bar or 8-bar with PAR 64 cans or other lighting fixtures.

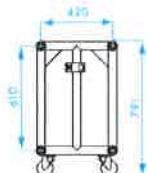
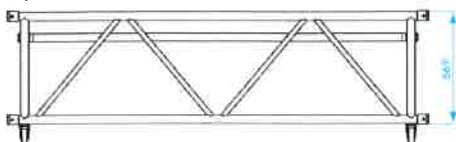
This integrated drop-down system converts the S66 truss into a so-called pre-rigged truss. The S66 truss can be delivered with a set of castor wheels to facilitate handling and transportation.



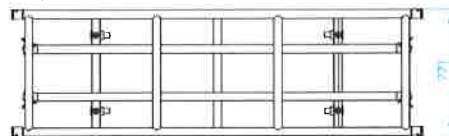
Prolyte S66R PRE RIG top view



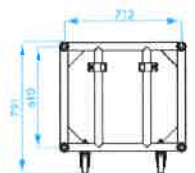
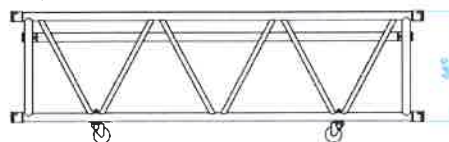
Prolyte S66R PRE RIG side view



Prolyte S66V PRE RIG top view



Prolyte S66V PRE RIG side view



PROLYTE S66R AND S66V - ALLOWABLE LOADING

SPAN		UNIFORMLY DISTRIBUTED LOAD		DEFLECTION		MAXIMUM ALLOWABLE POINT LOADS										SPAN
		UDL				CPL		DEFLECTION		TPL		CPL		FPL		
m	ft	kg/m	lbs/ft	mm	inch	kg	lbs	mm	inch	kg	lbs	kg	lbs	kg	lbs	total weight
2	6.6	3106,6	2090.3	2	0.07	6213,2	13712.6	1	0.03	3106,6	6856.3	2065,4	4558.4	1553,3	3428.1	34,0
3	9.8	2065,4	1389.7	4	0.15	6196,2	13675.1	3	0.11	3098,1	6837.5	2056,9	4539.6	1549,1	3418.8	51,0
4	13.1	1544,8	1039.4	7	0.27	5043,6	11131.3	5	0.19	3089,6	6818.8	2048,4	4520.8	1544,8	3409.4	68,0
5	16.4	1232,4	829.3	10	0.39	4019,6	8871.2	8	0.31	3014,7	6653.4	2009,8	4435.6	1540,6	3400.0	85,0
6	19.7	1024,2	689.2	15	0.59	3334,1	7358.3	12	0.47	2500,6	5518.7	1667,0	3679.2	1383,6	3053.7	102,0
7	23.0	812,0	546.4	20	0.78	2842,0	6272.3	16	0.63	2131,5	4704.2	1421,0	3136.1	1179,4	2603.0	119,0
8	26.2	617,7	415.6	26	1.02	2470,8	5453.1	21	0.82	1853,1	4089.8	1235,4	2726.5	1025,4	2263.0	136,0
9	29.5	484,5	326.0	33	1.29	2180,2	4811.7	27	1.06	1635,2	3608.8	1090,1	2405.9	904,8	1996.9	153,0
10	32.8	389,2	261.9	41	1.61	1946,0	4294.9	33	1.29	1459,5	3221.2	973,0	2147.5	807,6	1782.4	170,0
11	36.1	318,7	214.4	50	1.96	1752,9	3868.7	40	1.57	1314,7	2901.5	876,5	1934.3	727,5	1605.5	187,0
12	39.4	265,1	178.4	59	2.23	1590,5	3510.3	47	1.85	1192,9	2632.7	795,3	1755.2	660,1	1456.8	204,0
13	42.6	223,4	150.3	70	2.75	1451,8	3204.2	56	2.20	1088,9	2403.2	725,9	1602.1	602,5	1329.8	221,0
14	45.9	190,2	128.0	81	3.18	1331,7	2939.2	65	2.55	998,8	2204.4	665,9	1469.6	552,7	1219.8	238,0
15	49.2	163,5	110.0	93	3.66	1226,5	2707.0	74	2.91	919,9	2030.2	613,3	1353.5	509,0	1123.4	255,0
16	52.5	141,7	95.3	105	4.13	1133,4	2501.4	84	3.30	580,1	1876.1	566,7	1250.7	470,4	1038.1	272,0
17	55.8	123,6	83.1	119	4.68	1050,2	2317.9	95	3.74	787,7	1738.4	525,1	1158.9	435,8	961.9	289,0
18	59.0	108,4	72.9	134	5.27	975,4	2152.6	107	4.21	731,5	1614.5	487,7	1076.3	404,8	893.3	306,0
19	62.3	95,5	64.3	149	5.86	907,5	2002.8	119	4.68	680,6	1502.1	453,7	1001.4	376,6	831.2	323,0
20	65.6	84,6	56.9	165	6.49	845,5	1866.1	132	5.19	634,1	1399.6	422,8	933.0	350,9	774.4	340,0
21	68.9	75,1	50.5	182	7.16	788,7	1740.6	145	5.70	591,5	1305.4	394,3	870.3	327,3	722.3	357,0
22	72.2	66,9	45.0	199	7.83	736,2	1624.8	160	6.29	552,2	1218.6	368,1	812.4	305,5	674.3	374,0
23	75.4	59,8	40.2	218	8.58	687,6	1517.5	174	6.85	515,7	1138.1	343,8	758.7	285,3	629.7	391,0
24	78.7	53,5	36.0	237	9.33	642,3	1417.5	190	7.48	481,7	1063.1	321,1	708.7	266,5	588.3	408,0

1 inch = 25,4 mm | 1m = 3.28 ft | 1 lbs = 0,453 kg

- Loading figures only valid for static loads and spans with two supporting points
- Spans must be supported at each end
- If dynamic loads or wind loads are involved, or more supporting points are applied, contact a structural engineer or Prolyte
- Loading figures are based on German DIN standards; to comply with BS 7905-2 / ANSI E1.2-2006 / CWA 15902-2, the loading data must be multiplied by 0.85
- The self-weight of the trusses has already been taken into account
- For spans longer than indicated and with a different loading set-up use the KYLo programme
- For structures contact Prolyte



S66R
Mark approval certificate No. 3075/05
Test report No. 3074/05
TÜV certification only valid for loading table above.



S66V
Mark approval certificate No. 3073/05
Test report No. 3072/05
TÜV certification only valid for loading table above.

PROLYTE S66R / S66V TRUSS

TECHNICAL SPECIFICATIONS S66 SERIES

Types	Rectangle (R), Square (V)
Alloy	EN AW 6082 T6
Main tubes (chords)	50 x 4 mm
Braces	30 x 3 mm
Coupling system	CCS7 series

Type		S66V	S66R	
Allowable Normal Force in Main Chord	N	41,62	41,62	kN
Allowable Normal Force in Diagonals	N	20,36	20,36	kN
Surface area Complete Truss	A	23,12	23,12	cm ²
Moment of Inertia Y-axis	I _y	18335,3	18335,3	cm ⁴
Moment of Inertia Z-axis	I _z	3400,0	3550,0	cm ⁴
Allowable bending moment Y-axis	M _y	50,78	50,78	kNm
Allowable bending moment Z-axis	M _z	—	—	kNm
Allowable shear force Z-axis	Q _z /V _z	31,24	31,24	kN
Allowable shear force Y-axis	Q _y /V _y	—	—	kN
Selfweight	kg	17	17	kg/m

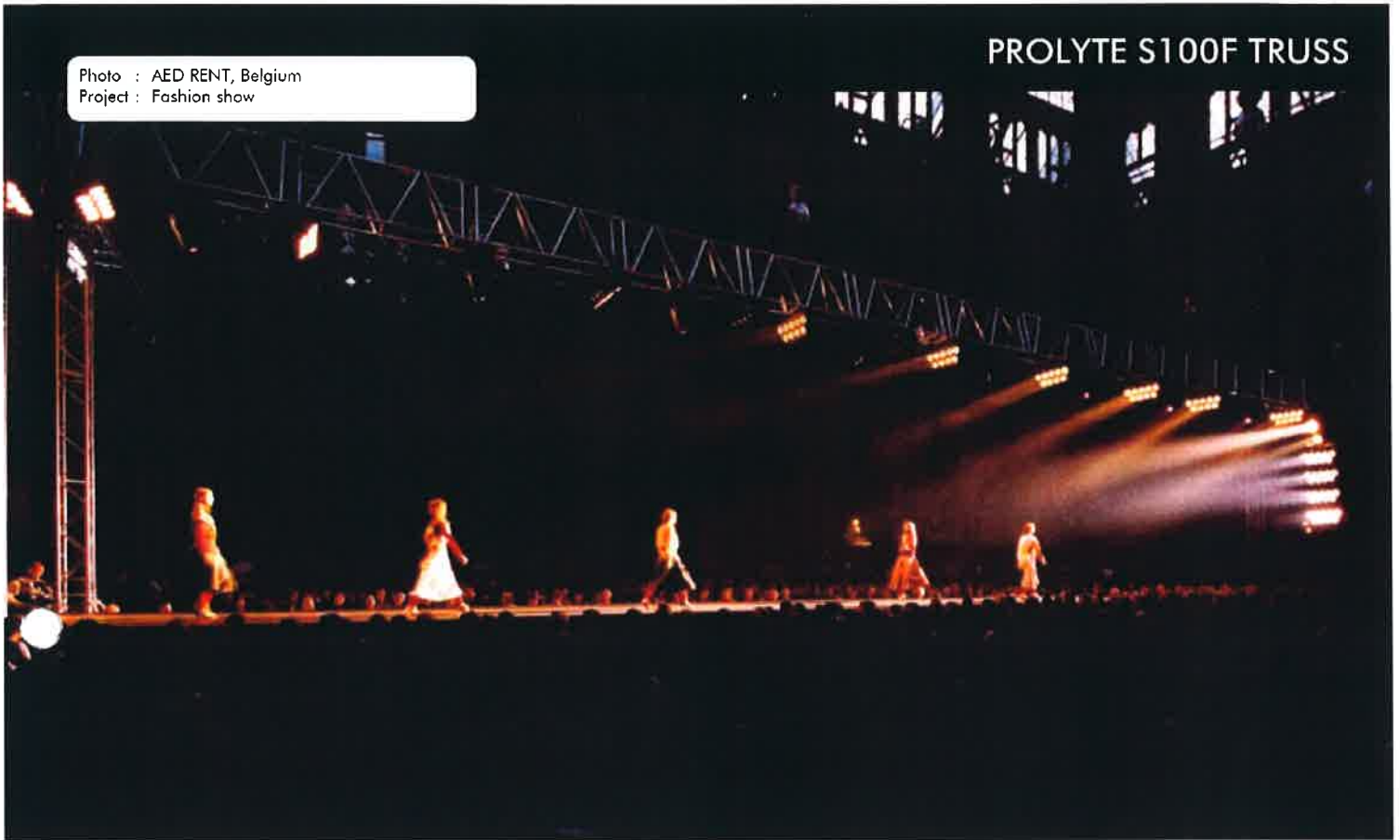
S66 SERIES - STANDARD AVAILABLE LENGTHS AND CODES

Meters	Feet	Code*
0,25 / 1,00 m in steps of 5 mm	0.82' / 3.28' in steps of 0.2"	
1,00	3.28	S66*-L100
1,50	4.92	S66*-L150
1,74*	5.71	S66*-L174
2,00	6.56	S66*-L200
2,50*	8.20	S66*-L250
3,00	9.84	S66*-L300
3,26*	10.69	S66*-L326
3,50	11.48	S66*-L350
4,00	13.12	S66*-L400

*on * indicate R for Rectangle, V for Square truss.
Example: S66V-L200

PROLYTE S100F TRUSS

Photo : AED RENT, Belgium
Project : Fashion show

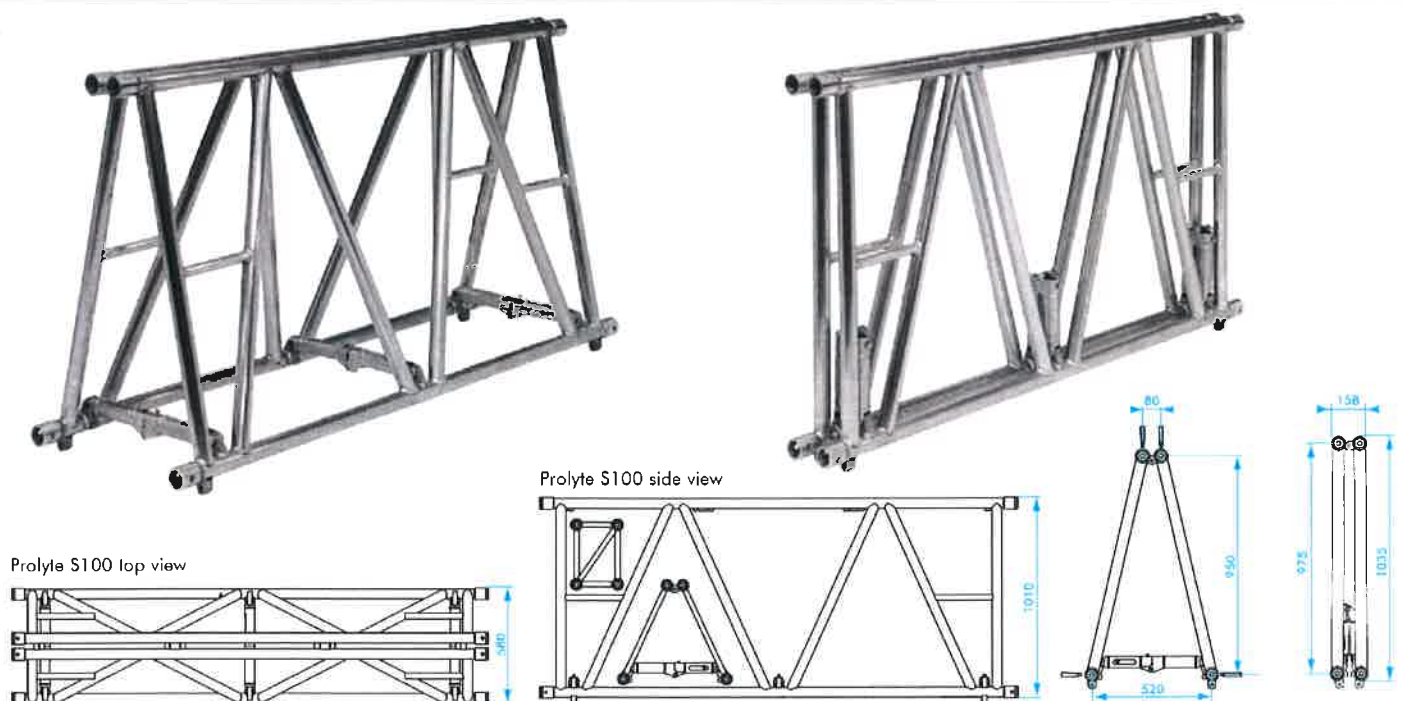


The S100F truss is constructed of main tubes of 50 x 4 mm and diagonals of 48 x 3 mm, and uses the CCS7 coupling system. Prolyte supplies a variety of S100 truss elements that provide maximum flexibility, like standard or custom-made lengths and several types of corners. Prolyte can deliver custom-made pieces on request. For obvious reasons, the S100F is not available in curved sections. Increased truss height and larger diagonals make it possible to create spans of up to 30 metres. This truss is suited for vertical loading only.

The geometry of the bracing makes it possible to combine the S100F truss with the S52F or S36R truss.

Extra horizontal braces are welded between the diagonals to make it possible for technicians to climb the truss.

The S100F folding truss can save up to 70-80% of warehouse and truck space, while the smart placing of the hinges prevents personal injuries. Thanks to the clever spigot pin orientation in the couplers, assembly of the truss is foolproof.



PROLYTE S100F TRUSS

PROLYTE S100F - ALLOWABLE LOADING

SPAN		UNIFORMLY DISTRIBUTED LOAD		DEFLECTION		MAXIMUM ALLOWABLE POINT LOADS										SPAN
		UDI				CENTRE POINT LOAD		DEFLECTION		SINGLE LOAD THIRD POINTS		SINGLE LOAD FOURTH POINTS		SINGLE LOAD FIFTH POINTS		
m	ft	kg/m	lbs/ft	mm	inch	kg	lbs	mm	inch	kg	lbs	kg	lbs	kg	lbs	total weight
2,4	7.9	866,5	583.1	0,1	0	2056,0	4538	0,2	0	1028,1	2269.0	685,4	1512.6	514,0	1134.5	42,7
4,8	15.7	425,8	286.5	1,0	0.03	2056,0	4538	2	0.07	1028,1	2269.0	685,4	1512.6	514,0	1134.5	85,4
7,2	23.6	278,8	187.6	3,2	0.12	1854,0	4092	5	0.19	927,0	2045.9	618,0	1363.9	463,5	1022.9	128,2
9,6	31.5	205,4	138.2	7,5	0.29	1644,0	3629	10	0.39	822,1	1814.3	548,0	1209.5	411,0	907.1	170,9
12	39.4	161,3	108.5	14,5	0.57	1477,0	3260	18	0.70	738,5	1629.8	492,3	1086.6	369,2	814.9	213,6
14,4	47.2	131,9	88.8	24,5	0.96	1341,0	2959	28	1.10	670,3	1479.4	446,9	986.3	355,2	739.7	256,6
16,8	55.1	110,9	74.6	38,2	1.50	1227,0	2709	40	1.57	613,7	1354.4	409,1	902.9	306,8	677.2	299,0
19,2	63	95,2	64.1	56,0	2.20	1132,0	2498	55	2.16	565,9	1248.9	377,2	832.6	282,9	624.4	341,8
21,6	70.8	82,9	55.8	78,1	3.07	1050,0	2317	73	2.87	525,0	1158.6	350,0	772.4	262,5	579.3	384,5
24	78.7	70,9	47.7	101,8	4.00	979,2	2161	94	3.70	489,6	1080.5	326,4	720.3	244,8	540.3	427,2
26,4	86.6	60,4	40.7	127,0	5.00	917,3	2025	117	4.60	458,7	1012.3	305,8	674.8	229,3	506.1	469,9
28,8	94.5	51,6	34.7	153,5	6.04	862,8	1904	143	5.62	431,4	952.1	287,6	634.8	215,7	476.1	512,6
31,2	102.3	44,0	29.6	180,4	7.10	814,5	1798	171	6.73	407,2	898.8	271,5	599.2	203,6	449.4	555,4
33,6	110.2	37,6	25.3	207,2	8.15	771,2	1702	203	7.95	385,6	851.0	257,1	567.4	192,8	425.5	598,2
36	118.1	32,1	21.6	233,0	9.17	732,3	1616	237	9.33	366,2	808.1	244,1	538.8	183,1	404.1	641,0

1 inch = 25.4 mm | 1m = 3.28 ft | 1 lbs = 0.453 kg

- Loading figures only valid for static loads and spans with two supporting points
- Spans must be supported at each end
- If dynamic loads or wind loads are involved, or more supporting points are applied, contact a structural engineer or Prolyte
- Loading figures are based on German DIN standards; to comply with BS 7905-2 / ANSI E1.2-2006 / CWA 15902-2, the loading data must be multiplied by 0.85
- The self-weight of the trusses has already been taken into account
- For structures contact Prolyte



Mark approval certificate No. 44 780
349753-001
Test report
No. 07 780 349753-001
TÜV certification only valid for loading
table above.

S100 SERIES - STANDARD AVAILABLE LENGTHS AND CODES

Meters	Feet	Code
0,25 / 1,00 m in steps of 5 mm	0.82' / 3.28' in steps of 0.2'	
1,00	3.28	S100F-L100
1,20	3.94	S100F-L120
2,00	6.56	S100F-L200
2,40	7.87	S100F-L240
3,00	9.84	S100F-L300

TECHNICAL SPECIFICATIONS S100 SERIES

Types	Folding (F)
Alloy	EN AW 6082 T6
Main tubes (chords)	50 x 4 mm
Braces	48 x 3 mm
Coupling system	CCS7 series

Type		S100F	
Allowable Normal Force in Main Chord	N	41,62	kN
Allowable Normal Force in Diagonals	N	33,93	kN
Surface area Complete Truss	A	23,12	cm ²
Moment of Inertia Y-axis	I _y	44396,3	cm ⁴
Moment of Inertia Z-axis	I _z	—	cm ⁴
Allowable bending moment Y-axis	M _y	79,08	kNm
Allowable bending moment Z-axis	M _z	—	kNm
Allowable shear force Z-axis	Q _z /V _z	12,0	kN
Allowable shear force Y-axis	Q _y /V _y	—	kN
Selfweight	kg	18	kg/m

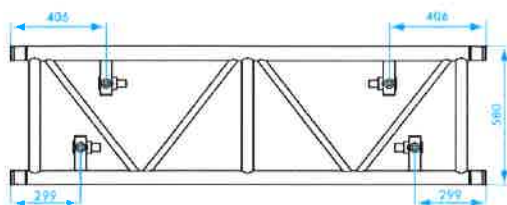
Photo : ModifiC, Russian federation
 Project : Armenian festival



The B100RV truss is constructed of main tubes of 60 x 6 mm and diagonals of 48 x 3 mm, and uses the CCS7 coupling system. Prolyte supplies a variety of B100 truss elements that provide maximum flexibility, like standard or custom-made lengths, circles and arches and some corners. Prolyte can deliver custom-made pieces on request. The B100 truss is easily accessible for technicians, making it more safe to climb. Due to the 4-sided webbing of the B100 truss, it can absorb vertical as well as horizontal loads, which makes it ideal for outdoor use or 3-dimensional structures. The B100RV truss is equipped with a set of castors as standard. These castors are positioned on the inside of the main chords to allow for easy stacking of the truss for transportation purposes. Thanks to the clever spigot pin orientation in the couplers, assembly of the truss is foolproof.



Prolyte B100RV top view



Prolyte B100RV side view

