

DECORATIVE TRUSS



Photo: Le Creuset GMBH, Germany

System Characteristics

The Prolyte Decorative truss comprises of the E20 series. The E20 truss is available in ladder, triangular and square types. The E20 series is designed as lightweight, light duty truss system with a mainly decorative function. The small and highly aesthetic truss can be used for structural purposes as well. The compact construction, optimum strength and the high tech looks make this truss an appropriate decorative element with numerous applications.

System Applications

The E20 series truss offers a flexible and visual attractive solution for exhibition builders, shop fitters, as well as architectural and interior design applications. It is primarily used for displays, exhibition booths or interior decoration. In these markets the demands on the products are high. The product has to look neat and clean in its decorative function, but has to be very flexible, when part of a complex structure, at the same time. Trusses from the E-series offer all these characteristics and more.

Coupling system

The Prolyte Decorative truss or E20 series use the CCS4 conical coupling system. The CCS4 allows fast, efficient and reliable coupling of your trusses and corners.



PROLYTE E20D / E20V TRUSS

Photo : Le Creuset GMBH, Germany
Project : Messe Leipzig

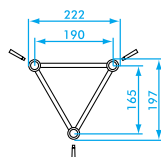
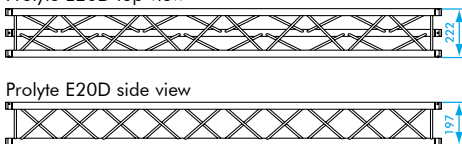


E20 truss is constructed of main tubes of 32 x 1,5 mm and diagonals of 10 x 1,0 mm. Use the CCS4 coupling system. Prolyte supplies a variety of E20 truss elements that provide

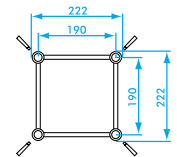
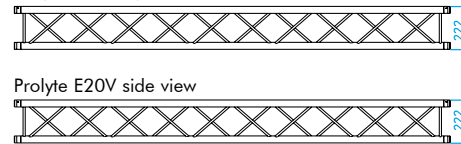
maximum flexibility, like standard or custom made lengths, circles and arches and several types of corners. Prolyte can deliver custom made pieces on request.



Prolyte E20D top view



Prolyte E20V top view



PROLYTE E20D - ALLOWABLE LOADING

SPAN		UNIFORMLY DISTRIBUTED LOAD		DEFLECTION		MAXIMUM ALLOWABLE POINT LOADS									
						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
1	3,3	339,8	228,7	1	0,04	339,8	750,0	1	0,04	169,9	375,0	113,0	249,4	85,0	187,5
2	6,6	169,1	113,8	3	0,12	225,4	497,4	2	0,09	169,0	373,1	112,2	247,6	84,6	186,6
3	9,8	99,3	66,8	7	0,28	148,9	328,7	5	0,20	111,7	246,5	74,5	164,3	61,8	136,4
4	13,1	55,1	37,1	12	0,47	110,3	243,4	10	0,39	82,7	182,6	55,1	121,7	45,8	101,0
5	16,4	34,7	23,4	19	0,75	86,8	191,5	15	0,59	65,1	143,7	43,4	95,8	36,0	79,5
6	19,7	23,6	15,9	27	1,06	70,9	156,4	22	0,87	53,1	117,3	35,4	78,2	29,4	64,9
7	23,0	19,9	11,4	37	1,46	59,3	130,8	29	1,14	44,4	98,1	29,6	65,4	24,6	54,3
8	26,2	12,6	8,5	48	1,89	50,3	111,1	39	1,54	37,8	83,3	25,2	55,6	20,9	46,1
9	29,5	9,6	6,5	61	2,40	43,2	95,4	49	1,93	32,4	71,6	21,6	47,7	17,9	39,6
10	32,8	7,5	5,0	75	2,95	37,4	82,5	60	2,36	28,0	61,9	18,7	41,3	15,5	34,3
11	36,1	5,9	4,0	91	3,58	32,5	71,7	73	2,87	24,4	53,7	16,2	35,8	13,5	29,7
12	39,4	4,7	3,2	108	4,25	28,2	62,3	87	3,43	21,2	46,7	14,1	31,2	11,7	25,9

1 inch = 25.4 mm | 1 m = 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, wind loads or more supporting points are applied contact a structural engineer or Prolyte.
- **Loading figures are based on the German DIN standards. To comply to the BS and ANSI standards the loading data have to be multiplied with 0,85**
- Self-weight of the trusses is already taken into account.
- For longer spans than indicated in the table, use KYLo or contact Prolyte to supply data on request.



Mark approval certificate No. 344/02
 Test report No. 343/02
 TÜV certification only valid for loading table above.

TECHNICAL SPECIFICATIONS E20 SERIES

Types	Ladder (l), Triangle (D), Square (V)		
Alloy	EN AW 6060 T5		
Main tubes (chords)	32 x 1,5 mm		
Braces	10 x 1,0 mm		
Coupling system	CCS4 series		

Type	E20D	E20V	
Allowable Normal Force in Main Chord	N	6,90	6,90 kN
Allowable Normal Force in Diagonals	N	1,36	1,36 kN
Surface area Complete Truss	A	4,31	5,75 cm ²
Moment of Inertia Y-axis	ly	224,7	446,7 cm ⁴
Moment of Inertia Z-axis	lz	223,4	446,7 cm ⁴
Allowable bending moment Y-axis	My	1,14	2,62 kNm
Allowable bending moment Z-axis	Mz	1,31	2,62 kNm
Allowable shear force Z-axis	Qz/Vz	1,67	1,92 kN
Allowable shear force Y-axis	Qy/Vy	0,96	1,92 kN
Selfweight	kg	1,6	2,1 kg/m

E20 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	0,38	E20•-L025
0,50	1,64	E20•-L050
0,58	1,90	E20•-L058
0,75	2,46	E20•-L075
1,00	3,28	E20•-L100
1,50	4,57	E20•-L150
2,00	6,56	E20•-L200
2,50	8,20	E20•-L250
3,00	9,84	E20•-L300
3,50	11,48	E20•-L350
4,00	13,12	E20•-L400
4,50	14,76	E20•-L450
5,00	16,40	E20•-L500

*on • indicate L for ladder, D for triangle or V for Square truss. Example: E20V-L200

PROLYTE E20D / E20V TRUSS

PROLYTE E20V - ALLOWABLE LOADING															
SPAN		UNIFORMLY DISTRIBUTED LOAD		DEFLECTION		MAXIMUM ALLOWABLE POINT LOADS									
						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
1	3,3	381,8	256,9	1	0,04	381,8	842,6	1	0,04	190,9	421,3	126,9	280,1	95,4	210,6
2	6,6	189,8	127,7	3	0,12	379,7	837,9	3	0,12	189,8	419,0	125,9	277,8	94,9	209,5
3	9,8	125,9	84,7	8	0,32	346,4	764,5	6	0,24	188,8	416,6	124,8	275,4	94,4	208,3
4	13,1	93,9	63,2	14	0,55	258,0	569,3	11	0,43	187,7	414,3	123,8	273,1	93,9	207,2
5	16,4	74,7	50,2	22	0,87	204,5	451,3	17	0,67	153,4	338,5	102,2	225,6	84,9	187,3
6	19,7	56,2	37,8	31	1,22	168,5	371,8	25	0,98	126,4	278,9	84,2	185,9	69,9	154,3
7	23,0	40,7	27,4	43	1,69	142,5	314,4	34	1,34	106,8	235,8	71,2	157,2	59,1	130,5
8	26,2	30,7	20,6	56	2,20	122,7	270,8	45	1,77	92,0	203,1	61,3	135,4	50,9	112,4
9	29,5	23,8	16,0	71	2,79	107,1	236,3	57	2,24	80,3	177,2	53,5	118,1	44,4	98,1
10	32,8	18,9	12,7	87	3,43	94,4	208,3	70	2,76	70,8	156,2	47,2	104,1	39,2	86,4
11	36,1	15,2	10,2	106	4,17	83,8	184,9	85	3,35	62,8	138,7	41,9	92,5	34,8	76,7
12	39,4	12,5	8,4	126	4,96	74,8	165,1	101	3,98	56,1	123,8	37,4	82,5	31,0	68,5

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, wind loads or more supporting points are applied contact a structural engineer or Prolyte.
- Loading figures are based on the German DIN standards. To comply to the BS and ANSI standards the loading data have to be multiplied with 0,85
- Self-weight of the trusses is already taken into account.
- For longer spans than indicated in the table, use KYLo or contact Prolyte to supply data on request.



Mark approval certificate
No. 244/02
Test report No. 243/02
TÜV certification only
valid for loading table
above.

MULTI PURPOSE TRUSS



© Prolyte Sales BV. Omke Oudeman

System Characteristics

The Prolyte Multi Purpose truss comprises of the X&H30 series and the H40 series. The X&H30 series are available in ladder, triangular and square types, and the H40 truss is available in triangular and square types.

The X&H30 series and the H40 series are designed as lightweight, light to medium duty truss systems that are used in the installation, rental and exhibition market. This truss is strong, compact and very versatile. The truss has a low unit weight. Assembly is foolproof, due to the continuous webbing of the diagonals.

The X and H version are distinguished by their different wall thickness. All X trusses have main chords of 2 mm.; all the H trusses have main chords of 3 mm. While their looks are almost similar, their technical specifications and loading possibilities are different. The comparatively thicker wall of the H trusses makes them less vulnerable to transport damages and extend their durability. In general X trusses are more fitted for permanent or semi-permanent installations, where H trusses are much used in the rental market or for moving grids.

System Applications

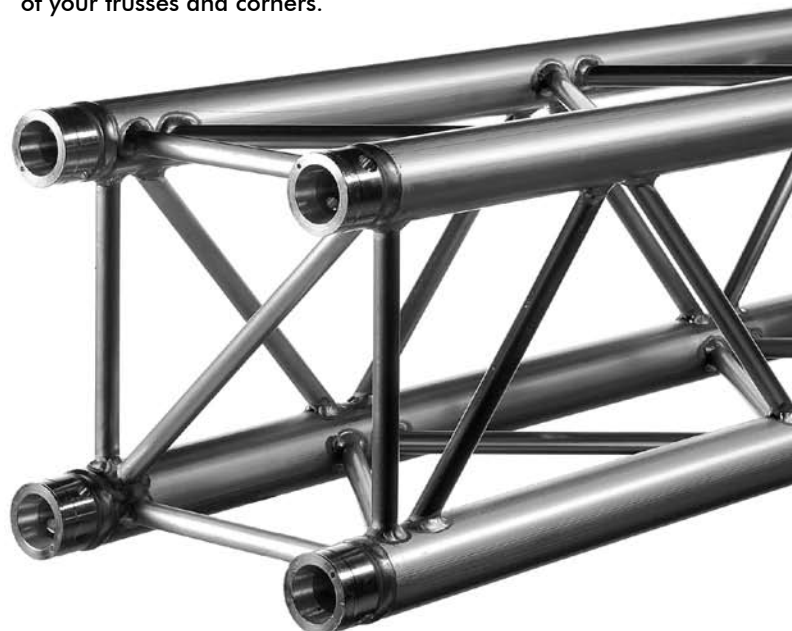
The X&H30 series and the H40 series truss offer a versatility that makes them popular and much used in the exhibition as well as the rental market. The trusses are used in permanent or semi permanent installations; for example, decorative and architectural set pieces, theatre sets, shop displays, studio grids, showrooms etc.

Their strength related to the relatively small dimensions make it ideal for complex structures like displays or booths.

The H trusses are primarily designed for high frequency users like rental or exhibition companies or for semi permanent installations in demanding circumstances i.e., moving lighting rigs in discotheques, scenery or touring exhibition stands.

Coupling system

The Prolyte Multi Purpose truss comprising of the X&H30 series and the H40 series use the CCS6 conical coupling system. The CCS6 allows fast, efficient and reliable coupling of your trusses and corners.



PROLYTE X30L / X30D / X30V TRUSS

Photo : Metro, New Zealand
Project : Four Wheel Drive vehicle



X30 truss is constructed of main tubes of 51 x 2 mm and diagonals of 16 x 2 mm. Use the CCS6 coupling system. Prolyte supplies a variety of X30 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 number of recessed rings in the coupler receiver distinguishes the X and H series.



X coupler
1 ring

H coupler
2 rings

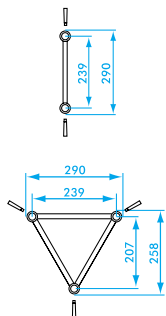
The X and H series are distinguished by the number of recessed rings in the coupler receiver.

Prolyte X30L top view

Prolyte X30L side view

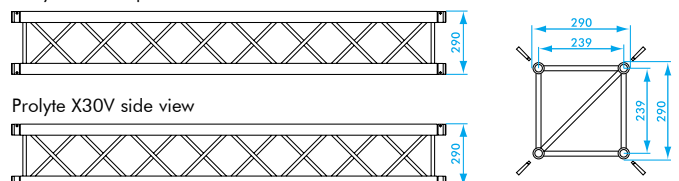
Prolyte X30D top view

Prolyte X30D side view



Prolyte X30V top view

Prolyte X30V side view



PROLYTE X30D - ALLOWABLE LOADING

SPAN		UNIFORMLY DISTRIBUTED LOAD		DEFLECTION		MAXIMUM ALLOWABLE POINT LOADS									
						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
1	3,3	1719,9	1157,3	1	0,04	1719,9	3795,9	1	0,04	860,0	1898,0	572,7	1263,9	430,0	949,0
2	6,6	858,1	577,4	4	0,15	913,9	2017,0	3	0,12	685,4	1512,8	457,0	1008,5	379,3	837,1
3	9,8	404,1	271,9	8	0,31	606,1	1337,7	6	0,24	454,6	1003,3	303,1	668,8	251,5	555,1
4	13,1	225,6	151,8	14	0,55	451,3	995,9	11	0,43	338,4	746,9	225,6	498,0	187,3	413,3
5	16,4	143,0	96,2	22	0,86	357,6	789,2	18	0,71	268,2	591,9	178,8	394,6	148,4	327,5
6	19,7	98,2	66,1	32	1,26	294,5	650,0	26	1,02	220,9	487,5	147,3	325,0	122,2	269,7
7	23,0	71,1	47,9	43	1,69	248,9	549,3	35	1,38	186,7	412,0	124,5	274,7	103,3	228,0
8	26,2	53,6	36,0	57	2,24	214,2	472,8	45	1,77	160,7	354,6	107,1	236,4	88,9	196,2
9	29,5	41,5	27,9	72	2,83	186,8	412,3	57	2,24	140,1	309,3	93,4	206,2	77,5	171,1
10	32,8	32,9	22,1	89	3,50	164,5	363,1	71	2,79	123,4	272,4	82,3	181,6	68,3	150,7
11	36,1	26,5	17,9	107	4,21	146,0	322,1	86	3,39	109,5	241,6	73,0	161,1	60,6	133,7
12	39,4	21,7	14,6	127	5,0	130,2	287,2	102	4,02	97,6	215,4	65,1	143,6	54,0	119,2
13	42,6	17,9	12,1	150	5,90	116,5	257,1	120	4,72	87,4	192,8	58,2	128,5	48,3	106,7
14	45,9	14,9	10,0	174	6,85	104,5	230,6	139	5,47	78,4	173,0	52,3	115,3	43,4	95,7
15	49,2	12,5	8,4	199	7,83	93,9	207,2	159	6,26	70,4	155,4	46,9	103,6	39,0	86,0
16	52,5	10,5	7,1	227	8,94	84,3	186,1	181	7,13	63,2	139,6	42,2	93,0	35,0	77,2

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, wind loads or more supporting points are applied contact a structural engineer or Prolyte.
- Loading figures are based on the German DIN standards. To comply to the BS and ANSI standards the loading data have to be multiplied with 0,85
- Self-weight of the trusses is already taken into account.
- For longer spans than indicated in the table, use KYLo or contact Prolyte to supply data on request.



Mark approval certificate No. 2238/04
 Test report No. 2237/04
 TÜV certification only valid for loading table above.

TECHNICAL SPECIFICATIONS X30 SERIES

Types	Ladder (L), Triangle (D), Square (V)			
Alloy	EN AW 6082 T6			
Main tubes (chords)	51 x 2 mm			
Braces	16 x 2 mm			
Coupling system	CCS6 series			
Type		X30D	X30V	
Allowable Normal Force in Main Chord	N	22,17	22,17	kN
Allowable Normal Force in Diagonals	N	7,04	7,04	kN
Surface area Complete Truss	A	9,24	12,32	cm ²
Moment of Inertia Y-axis	I _y	771,2	1526,3	cm ⁴
Moment of Inertia Z-axis	I _z	763,1	1526,3	cm ⁴
Allowable bending moment Y-axis	M _y	4,59	10,60	kNm
Allowable bending moment Z-axis	M _z	5,30	10,60	kNm
Allowable shear force Z-axis	Q _z /V _z	8,62	9,95	kN
Allowable shear force Y-axis	Q _y /V _y	4,98	9,95	kN
Selfweight	kg	3,8	5,1	kg/m

30 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	0,38	X30•-L025
0,50	1,64	X30•-L050
0,58	1,90	X30•-L058
0,75	2,46	X30•-L075
1,00	3,28	X30•-L100
1,50	4,57	X30•-L150
2,00	6,56	X30•-L200
2,50	8,20	X30•-L250
3,00	9,84	X30•-L300
3,50	11,48	X30•-L350
4,00	13,12	X30•-L400
4,50	14,76	X30•-L450
5,00	16,40	X30•-L500

*on • indicate L for ladder, D for triangle or V for Square truss. Example: X30V-L200

PROLYTE X30L / X30D / X30V TRUSS

PROLYTE X30V - ALLOWABLE LOADING															
SPAN		UNIFORMLY DISTRIBUTED LOAD		DEFLECTION		MAXIMUM ALLOWABLE POINT LOADS									
						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
1	3,3	1985,3	1335,8	1	0,04	1985,3	4381,6	1	0,04	992,7	2190,8	660,9	1458,7	496,3	1095,4
2	6,6	990,1	666,2	4	0,16	1980,2	4370,3	3	0,12	990,1	2185,2	658,4	1453,0	495,1	1092,6
3	9,8	658,4	443,0	9	0,35	1405,1	3101,1	7	0,28	987,6	2179,5	655,8	1447,4	493,8	1089,8
4	13,1	492,5	331,4	17	0,67	1049,4	2316,0	13	0,51	787,0	1737,0	524,7	1158,0	435,5	961,1
5	16,4	334,0	224,7	26	1,02	834,9	1842,7	21	0,83	626,2	1382,0	417,5	921,3	346,5	764,7
6	19,7	230,4	155,0	37	1,46	691,1	1525,2	30	1,18	518,3	1143,9	345,5	762,6	286,8	633,0
7	23,0	167,9	113,0	51	2,01	587,6	1296,9	41	1,61	440,7	972,7	293,8	648,4	243,9	538,2
8	26,2	127,3	85,7	66	2,59	509,4	1124,2	53	2,08	382,0	843,2	254,7	562,1	211,4	466,6
9	29,5	99,6	67,0	84	3,31	448,0	988,7	67	2,63	336,0	741,5	224,0	494,3	185,9	410,3
10	32,8	79,7	53,6	103	4,06	398,3	879,1	83	3,27	298,8	659,3	199,2	439,6	165,3	364,8
11	36,1	65,0	43,7	125	4,92	357,3	788,5	100	3,94	267,9	591,3	178,6	394,2	148,3	327,2
12	39,4	53,8	36,2	149	5,87	322,6	712,0	119	4,69	241,9	534,0	161,3	356,0	133,9	295,5
13	42,6	45,1	30,3	175	6,89	292,9	646,4	140	5,51	219,7	484,8	146,4	323,2	121,5	268,2
14	45,9	38,1	25,7	202	7,95	267,0	589,4	162	6,38	200,3	442,0	133,5	294,7	110,8	244,6
15	49,2	32,6	21,9	233	9,17	244,3	539,2	186	7,32	183,2	404,4	122,2	269,6	101,4	223,8
16	52,5	28,0	18,8	264	10,39	224,1	494,6	212	8,35	168,1	370,9	112,0	247,3	93,0	205,3

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, wind loads or more supporting points are applied contact a structural engineer or Prolyte.
- Loading figures are based on the German DIN standards. To comply to the BS and ANSI standards the loading data have to be multiplied with 0,85
- Self-weight of the trusses is already taken into account.
- For longer spans than indicated in the table, use KYLo or contact Prolyte to supply data on request.

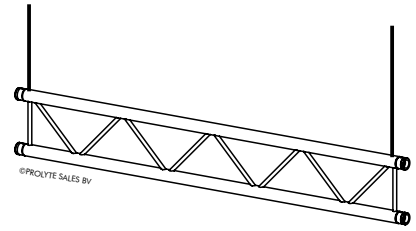


Mark approval certificate
 No. 2258/04
 Test report No. 2257/04
 TÜV certification only
 valid for loading table
 above.

PROLYTE X30L - ALLOWABLE LOADING (SPAN SUPPORTED ON TOP CHORD)

SPAN		UNIFORMLY DISTRIBUTED LOAD		DEFLECTION		CPL		DEFLECTION	
		UDL							
m	ft	kg/m	lbs/ft	mm	inch	kg	lbs	mm	inch
1	3,3	992,2	667,6	0	0	992,2	2189,8	0	0
2	6,6	339,0	228,1	1	0,04	339,0	748,2	1	0,04
3	9,8	114,0	76,7	2	0,08	171,0	377,4	2	0,08
4	13,1	44,0	29,6	3	0,12	88,0	194,2	2	0,08
5	16,4	20,0	13,5	3	0,12	50,0	110,4	2	0,08
6	19,7	9,0	6,1	3	0,12	26,0	57,4	2	0,08

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

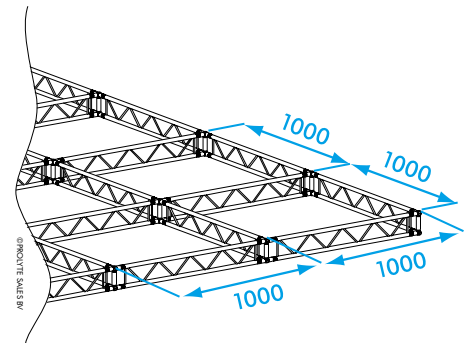


Spans must be supported at each end. Loads must be suspended from bottom chord only.

PROLYTE X30L - ALLOWABLE LOADING (TOP CHORD SIDWAYS SUPPORTED EACH METRE)

SPAN		UNIFORMLY DISTRIBUTED LOAD		DEFLECTION		CPL		DEFLECTION	
		UDL							
m	ft	kg/m	lbs/ft	mm	inch	kg	lbs	mm	inch
4	13,1	245,8	165,4	17	0,67	523,8	1156,0	13	0,51
5	16,4	166,5	112,1	26	1,02	416,3	918,9	21	0,83
6	19,7	114,7	77,2	37	1,46	344,2	759,6	30	1,18
7	23,0	83,5	56,2	51	2,01	292,2	645,0	41	1,61
8	26,2	63,2	42,5	66	2,60	252,9	558,1	53	2,09
9	29,5	49,3	33,2	84	3,31	222,0	489,9	67	2,64
10	32,8	39,0	25,6	100	3,94	196,9	434,6	83	3,27
11	36,1	27,8	18,7	110	4,33	176,2	388,8	100	3,94
12	39,4	20,7	13,9	120	4,72	158,6	350,0	119	4,69

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

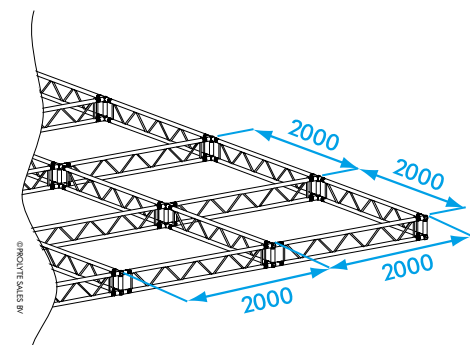


Spans must be supported at each end. Loads must be suspended from bottom chord only.

PROLYTE X30L - ALLOWABLE LOADING (TOP CHORD SIDWAYS SUPPORTED EVERY 2 METRES)

SPAN		UNIFORMLY DISTRIBUTED LOAD		DEFLECTION		CPL		DEFLECTION	
		UDL							
m	ft	kg/m	lbs/ft	mm	inch	kg	lbs	mm	inch
4	13,1	82,5	55,5	5	0,20	165,0	364,2	4	0,16
5	16,4	51,7	34,8	8	0,32	129,3	285,4	7	0,28
6	19,7	35,0	23,6	12	0,47	105,0	231,7	10	0,39
7	23,0	24,9	16,8	16	0,63	87,2	192,5	13	0,51
8	26,2	18,4	12,4	21	0,83	73,5	162,2	17	0,67
9	29,5	13,9	9,3	27	1,06	62,5	137,9	22	0,87
10	32,8	10,7	7,2	33	1,30	53,4	117,9	27	1,06
11	36,1	8,3	5,6	40	1,57	45,7	100,8	32	1,26
12	39,4	6,5	4,4	48	1,89	39,0	86,1	38	1,50

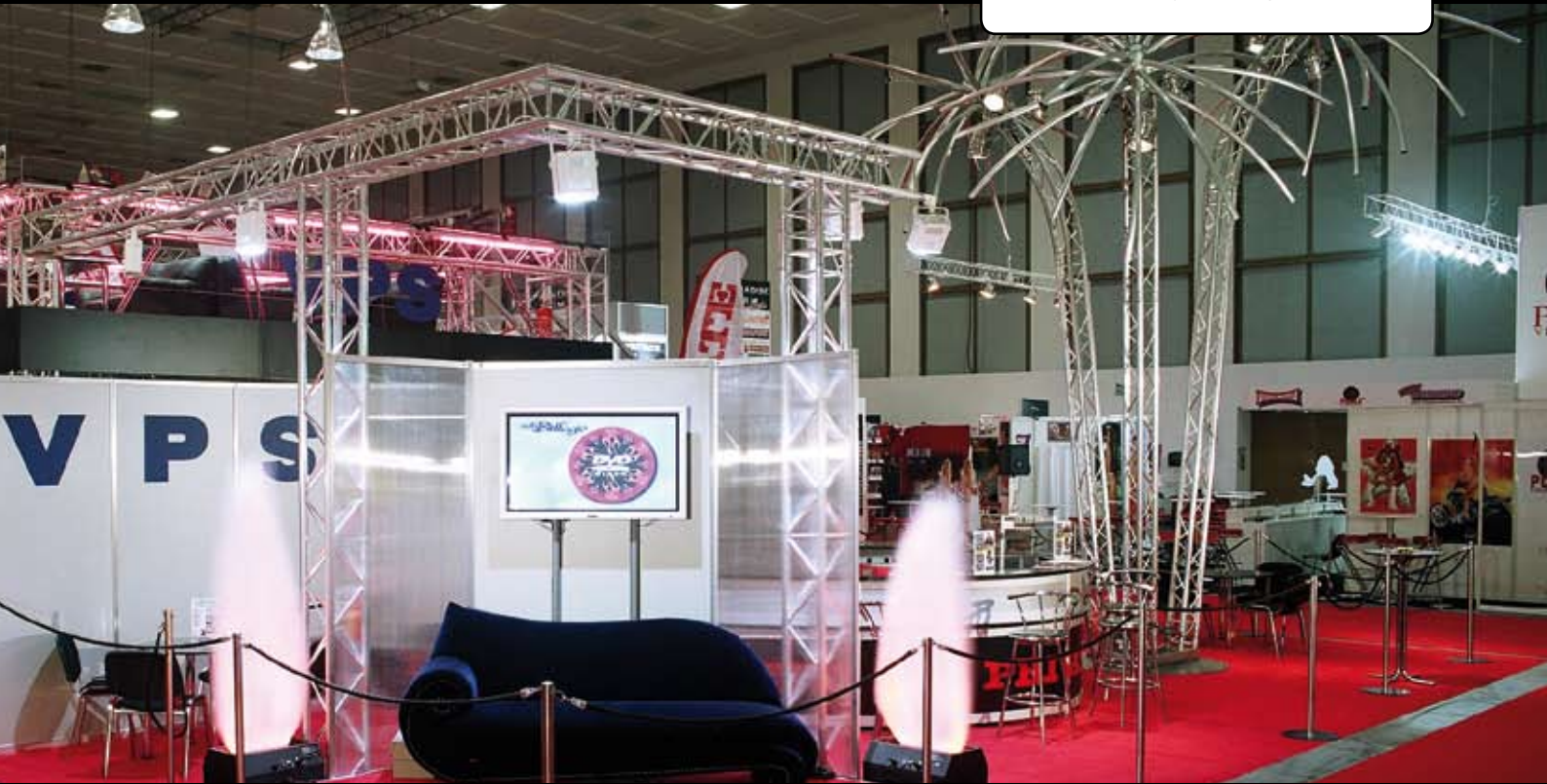
1 inch = 25.4 mm | 1m = 3.28 ft | 1 lbs = 0.453 kg



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

PROLYTE H30L /H30D / H30V TRUSS

Photo : Creativ-Design, Germany



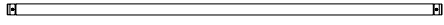
H30 truss is constructed of main tubes of 48,3 x 3 mm and diagonals of 16 x 2 mm. Use the CCS6 coupling system. Prolyte supplies a variety of H30 truss elements that provide maximum flexibility, like standard or custom made lengths, circles and arches and several types of corners.

Prolyte can deliver custom made pieces on request.

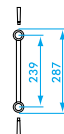
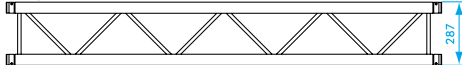
The number of recessed rings in the coupler receiver distinguishes the X and H series.



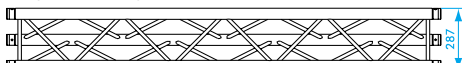
Prolyte H30L top view



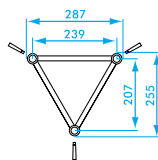
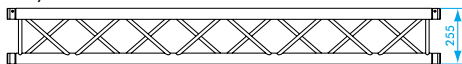
Prolyte H30L side view



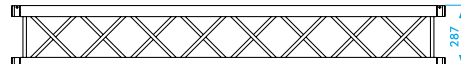
Prolyte H30D top view



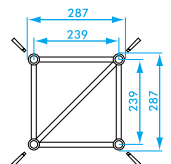
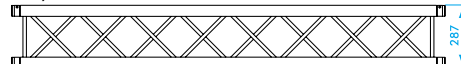
Prolyte H30D side view



Prolyte H30V top view



Prolyte H30V side view



©PROLYTE SALES BV

PROLYTE H30D - ALLOWABLE LOADING

SPAN		UNIFORMLY DISTRIBUTED LOAD		DEFLECTION		MAXIMUM ALLOWABLE POINT LOADS									
						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
1	3,3	1718,7	1156,5	1	0,04	1718,7	3793,3	1	0,04	859,4	1896,6	572,1	1262,6	429,7	948,3
2	6,6	856,9	576,6	4	0,16	1259,2	2779,1	3	0,12	856,9	1891,1	569,6	1257,1	428,4	945,6
3	9,8	556,9	374,7	8	0,31	835,3	1843,5	6	0,24	626,5	1382,6	417,7	921,8	346,7	765,1
4	13,1	311,1	209,3	14	0,55	622,1	1373,0	11	0,43	466,6	1029,7	311,1	686,5	258,2	569,8
5	16,4	197,3	132,7	22	0,87	493,2	1088,5	18	0,71	369,9	816,3	246,6	544,2	204,7	451,7
6	19,7	135,5	91,2	32	1,26	406,4	896,9	26	1,02	304,8	672,7	203,2	448,5	168,7	372,2
7	23,0	98,2	66,1	44	1,73	343,7	758,5	35	1,38	257,8	568,9	171,9	379,3	142,6	314,8
8	26,2	74,0	49,8	57	2,24	296,1	653,4	46	1,81	222,0	490,0	148,0	326,7	122,9	271,2
9	29,5	57,4	38,6	72	2,83	258,4	570,4	58	2,28	193,8	427,8	129,2	285,2	107,3	236,7
10	32,8	45,6	30,7	89	3,50	227,8	502,8	71	2,79	170,9	377,1	113,9	251,4	94,6	208,7
11	36,1	36,8	24,8	108	4,25	202,4	446,6	86	3,39	151,8	334,9	101,2	223,3	84,0	185,3
12	39,4	30,1	20,3	128	5,04	180,7	398,8	103	4,06	135,5	299,1	90,4	199,4	75,0	165,5
13	42,6	24,9	16,8	150	5,91	162,0	357,5	120	4,72	121,5	268,1	81,0	178,8	67,2	148,4
14	45,9	20,8	14,0	174	6,85	145,6	321,3	140	5,51	109,2	241,0	72,8	160,7	60,4	133,4
15	49,2	17,5	11,8	200	7,87	131,1	289,3	160	6,30	98,3	216,9	65,5	144,6	54,4	120,0
16	52,5	14,8	9,9	228	8,98	118,0	260,5	182	7,17	88,5	195,4	59,0	130,2	49,0	108,1

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, wind loads or more supporting points are applied contact a structural engineer or Prolyte.
- **Loading figures are based on the German DIN standards. To comply to the BS and ANSI standards the loading data have to be multiplied with 0,85**
- Self-weight of the trusses is already taken into account.
- For longer spans than indicated in the table, use KYLo or contact Prolyte to supply data on request.



Mark approval certificate No. 2233/04
 Test report No. 2232/04
 TÜV certification only valid for loading table above.

TECHNICAL SPECIFICATIONS H30 SERIES

Types	Ladder (L), Triangle (D), Square (V)
Alloy	EN AW 6082 T6
Main tubes (chords)	48,3 x 3 mm
Braces	16 x 2 mm
Coupling system	CCS6 series

Type		H30D	H30V	
Allowable Normal Force in Main Chord	N	30,54	30,54	kN
Allowable Normal Force in Diagonals	N	7,04	7,04	kN
Surface area Complete Truss	A	12,72	16,96	cm ²
Moment of Inertia Y-axis	I _y	1057,3	2095,9	cm ⁴
Moment of Inertia Z-axis	I _z	1047,9	2095,9	cm ⁴
Allowable bending moment Y-axis	M _y	6,32	14,60	kNm
Allowable bending moment Z-axis	M _z	7,30	14,60	kNm
Allowable shear force Z-axis	Q _z /V _z	8,62	9,95	kN
Allowable shear force Y-axis	Q _y /V _y	4,98	9,95	kN
Selfweight	kg	5	6,3	kg/m

30 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	H30•-L025
0,29	0,95	H30•-L029
0,50	1,90	H30•-L050
0,71	2,32	H30•-L071
1,00	3,28	H30•-L100
1,50	4,57	H30•-L150
2,00	6,56	H30•-L200
2,50	8,20	H30•-L250
3,00	9,84	H30•-L300
3,50	11,48	H30•-L350
4,00	13,12	H30•-L400
4,50	14,76	H30•-L450
5,00	16,40	H30•-L500

*on • indicate L for ladder, D for triangle or V for Square truss. Example: H30V-L200

PROLYTE H30L /H30D / H30V TRUSS

PROLYTE H30V - ALLOWABLE LOADING															
SPAN		UNIFORMLY DISTRIBUTED LOAD		DEFLECTION		MAXIMUM ALLOWABLE POINT LOADS									
						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
1	3,3	1984,1	1335,0	1	0,04	1984,1	4378,9	1	0,04	992,1	2189,5	660,3	1457,3	496,0	1094,7
2	6,6	988,9	665,4	4	0,16	1977,8	4365,0	3	0,12	988,9	2182,5	657,2	1450,4	494,5	1091,3
3	9,8	657,2	442,2	9	0,35	1936,7	4274,4	7	0,28	985,8	2175,6	654,0	1443,4	492,9	1087,8
4	13,1	491,3	330,6	17	0,67	1447,0	3193,6	13	0,51	982,6	2168,6	650,9	1436,5	491,3	1084,3
5	16,4	391,8	263,6	26	1,02	1152,0	2542,4	21	0,83	864,0	1906,8	576,0	1271,2	478,1	1055,1
6	19,7	318,1	214,0	37	1,46	954,2	2105,9	30	1,18	715,6	1579,4	477,1	1052,9	396,0	873,9
7	23,0	232,0	156,1	51	2,01	812,0	1792,1	41	1,61	609,0	1344,1	406,0	896,1	337,0	743,7
8	26,2	176,2	118,5	66	2,60	704,6	1555,1	53	2,09	528,5	1166,3	352,3	775,5	292,4	645,4
9	29,5	137,9	92,8	84	3,31	620,4	1369,2	67	2,64	465,3	1026,9	310,2	684,6	257,5	568,2
10	32,8	110,5	74,3	104	4,09	552,4	1219,0	83	3,27	414,3	914,3	276,2	609,5	229,2	505,9
11	36,1	90,2	60,7	125	4,92	496,1	1095,0	100	3,94	372,1	821,2	248,1	547,5	205,9	454,4
12	39,4	74,8	50,3	149	5,87	448,7	990,4	119	4,69	336,6	742,8	224,4	495,2	186,2	411,0
13	42,6	62,8	42,3	175	6,89	408,2	900,8	140	5,51	306,1	675,6	204,1	450,4	169,4	373,8
14	45,9	53,3	35,8	203	7,99	372,9	823,1	163	6,42	297,7	617,3	186,5	411,5	154,8	341,6
15	49,2	45,6	30,7	233	9,17	342,0	754,8	187	7,36	256,5	566,1	171,0	377,4	141,9	313,2
16	52,5	39,3	26,5	265	10,43	314,5	694,1	212	8,35	235,9	520,6	157,3	347,1	130,5	288,1

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, wind loads or more supporting points are applied contact a structural engineer or Prolyte.
- Loading figures are based on the German DIN standards. To comply to the BS and ANSI standards the loading data have to be multiplied with 0,85
- Self-weight of the trusses is already taken into account.
- For longer spans than indicated in the table, use KYLo or contact Prolyte to supply data on request.

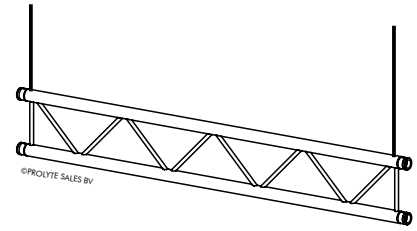


Mark approval certificate
 No. 2256/04
 Test report No. 2255/04
 TÜV certification only
 valid for loading table
 above.

PROLYTE H30L - ALLOWABLE LOADING (SPAN SUPPORTED ON TOP CHORD)

SPAN		UNIFORMLY DISTRIBUTED LOAD		DEFLECTION		CPL		DEFLECTION	
		UDL							
m	ft	kg/m	lbs/ft	mm	inch	kg	lbs	mm	inch
1	3,3	992,2	667,6	0	0	992,2	2189,8	0	0
2	6,6	359,0	241,6	1	0,04	389,0	858,5	1	0,04
3	9,8	135,0	90,8	2	0,08	203,0	448,0	2	0,08
4	13,1	52,0	35,0	2	0,08	104,0	229,5	2	0,08
5	16,4	25,0	16,8	3	0,12	62,0	136,8	2	0,08
6	19,7	11,0	7,4	3	0,12	33,0	72,8	2	0,08

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

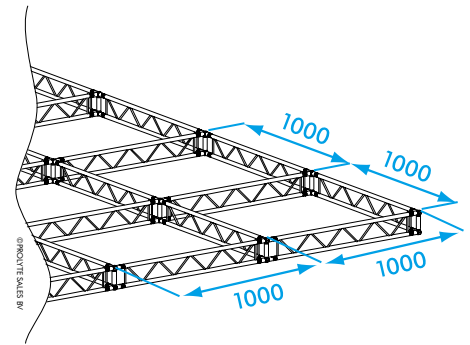


Spans must be supported at each end. Loads must be suspended from bottom chord only.

PROLYTE H30L - ALLOWABLE LOADING (TOP CHORD SIDWAYS SUPPORTED EACH METRE)

SPAN		UNIFORMLY DISTRIBUTED LOAD		DEFLECTION		CPL		DEFLECTION	
		UDL							
m	ft	kg/m	lbs/ft	mm	inch	kg	lbs	mm	inch
4	13,1	245,8	165,4	17	0,67	724,0	1597,9	13	0,51
5	16,4	196,0	131,9	26	1,02	576,5	1272,3	21	0,83
6	19,6	159,2	107,1	37	1,46	477,7	1054,2	30	1,18
7	23,0	116,2	78,2	51	2,01	406,6	897,5	41	1,61
8	26,2	88,3	59,4	66	2,60	353,0	779,1	53	2,09
9	29,5	69,1	46,5	84	3,31	310,9	686,3	67	2,64
10	32,8	53,3	35,8	100	3,94	277,0	611,3	83	3,27
11	36,1	39,3	26,4	110	4,33	249,0	549,4	100	3,94
12	39,4	29,6	19,9	120	7,72	225,3	497,3	119	4,69

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

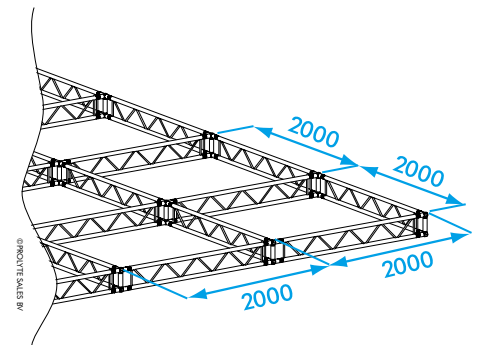


Spans must be supported at each end. Loads must be suspended from bottom chord only.

PROLYTE H30L - ALLOWABLE LOADING (TOP CHORD SIDWAYS SUPPORTED EVERY 2 METRES)

SPAN		UNIFORMLY DISTRIBUTED LOAD		DEFLECTION		CPL		DEFLECTION	
		UDL							
m	ft	kg/m	lbs/ft	mm	inch	kg	lbs	mm	inch
4	13,1	95,0	63,9	4	0,16	190,0	419,3	4	0,16
5	16,4	59,7	40,2	7	0,28	149,3	329,5	6	0,24
6	19,7	40,6	27,3	10	0,39	121,7	268,5	8	0,31
7	23,0	29,0	19,5	14	0,55	101,5	224,0	11	0,43
8	26,2	21,5	14,5	18	0,71	86,0	189,8	14	0,55
9	29,5	16,4	11,0	23	0,91	73,6	162,5	18	0,71
10	32,8	12,7	8,5	28	1,10	63,4	139,9	22	0,87
11	36,1	10,0	6,7	34	1,34	54,8	120,9	27	1,06
12	39,4	7,9	5,3	40	1,57	47,3	104,5	32	1,26

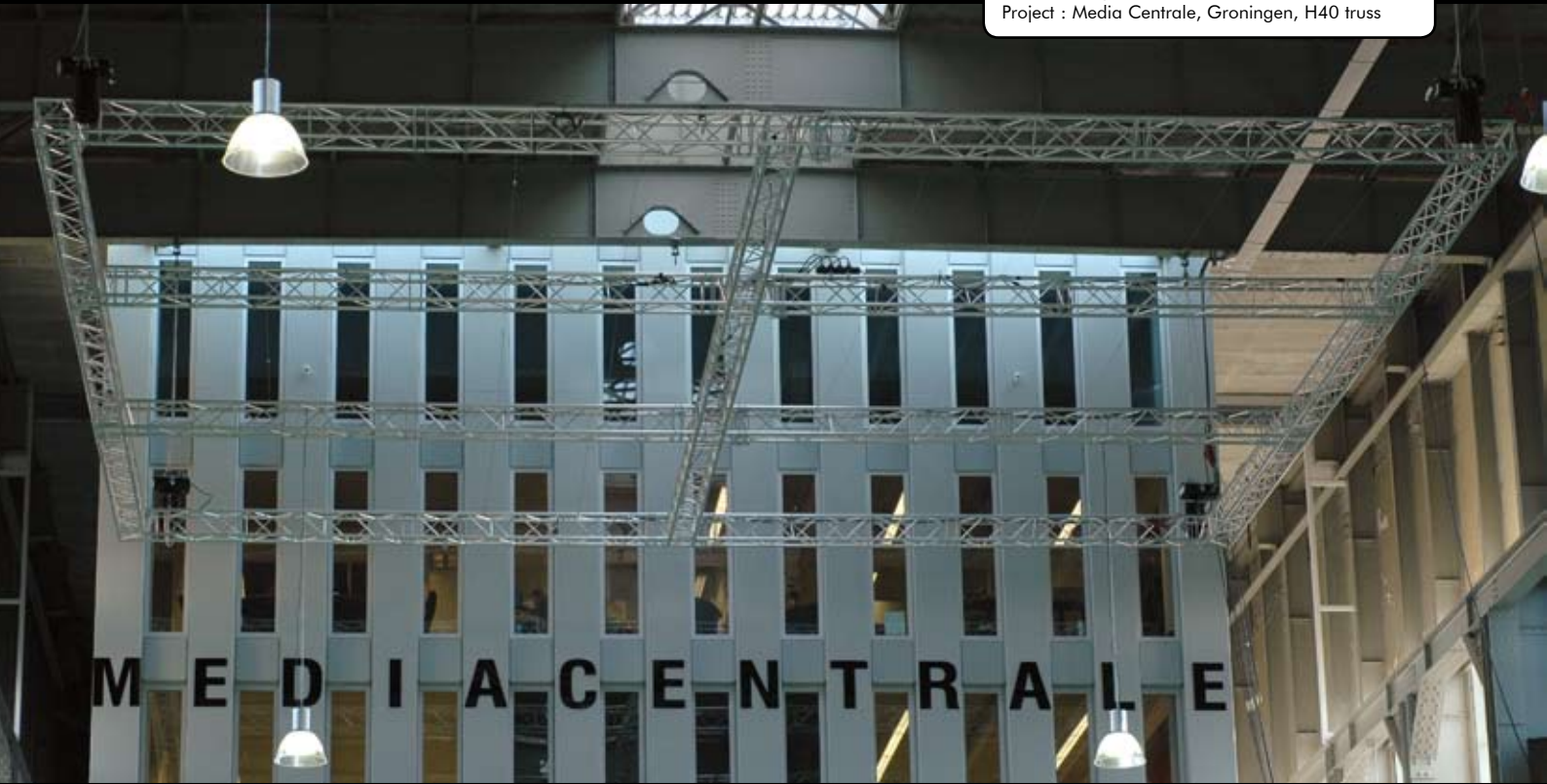
1 inch = 25.4 mm | 1 m = 3.28 ft | 1 lbs = 0.453 kg



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

PROLYTE H40D / H40V TRUSS

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



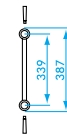
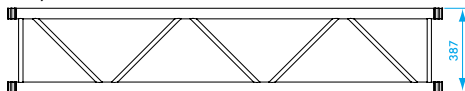
H40 truss is constructed of main tubes of 48,3 x 3 mm and diagonals of 20 x 2 mm. Use the CCS6 coupling system. Prolyte supplies a variety of H40 truss elements that provide

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

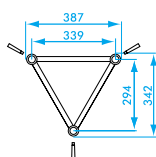
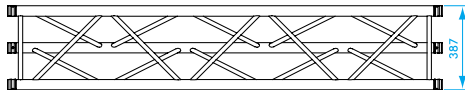


Prolyte H40L top view

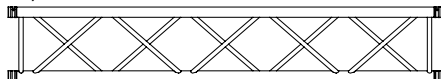
Prolyte H40L side view



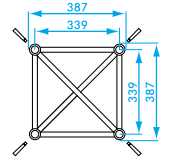
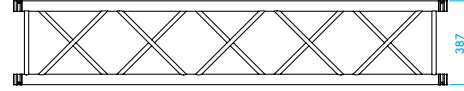
Prolyte H40D top view



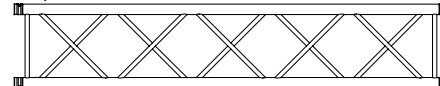
Prolyte H40D side view



Prolyte H40V top view



Prolyte H40V side view



©PROLYTE SALES BV

PROLYTE H40D - ALLOWABLE LOADING

SPAN		UNIFORMLY DISTRIBUTED LOAD		DEFLECTION		MAXIMUM ALLOWABLE POINT LOADS									
						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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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

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, wind loads or more supporting points are applied contact a structural engineer or Prolyte.
- Loading figures are based on the German DIN standards. To comply to the BS and ANSI standards the loading data have to be multiplied with 0,85
- Self-weight of the trusses is already taken into account.
- For longer spans than indicated in the table, use KYLo or contact Prolyte to supply data on request.



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

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

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
1,50	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. Example: H40V-L200

PROLYTE H40D / H40V TRUSS

PROLYTE H40V - ALLOWABLE LOADING															
SPAN		UNIFORMLY DISTRIBUTED LOAD		DEFLECTION		MAXIMUM ALLOWABLE POINT LOADS									
						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	
						CPL		DEFLECTION		CPL		CPL		CPL	
m	ft	kg/m	lbs/ft	mm	inch	kg	lbs	mm	inch	kg	lbs	kg	lbs	kg	lbs
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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

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, wind loads or more supporting points are applied contact a structural engineer or Prolyte.
- Loading figures are based on the German DIN standards. To comply to the BS and ANSI standards the loading data have to be multiplied with 0,85
- Self-weight of the trusses is already taken into account.
- For longer spans than indicated in the table, use KYLo or contact Prolyte to supply data on request.

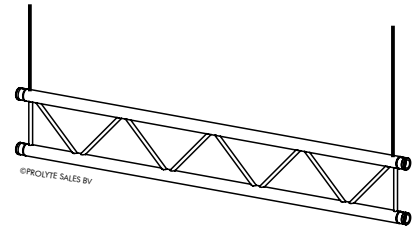


Mark approval certificate
No. 2246/04
Test report No. 2245/04
TÜV certification only
valid for loading table
above.

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

SPAN		UNIFORMLY DISTRIBUTED LOAD		DEFLECTION		CPL		DEFLECTION	
		UDL							
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 | 1m = 3.28 ft | 1 lbs = 0.453 kg

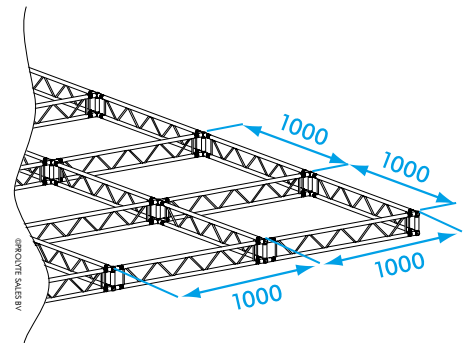


Spans must be supported at each end. Loads must be suspended from bottom chord only.

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

SPAN		UNIFORMLY DISTRIBUTED LOAD		DEFLECTION		CPL		DEFLECTION	
		UDL							
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 | 1m = 3.28 ft | 1 lbs = 0.453 kg

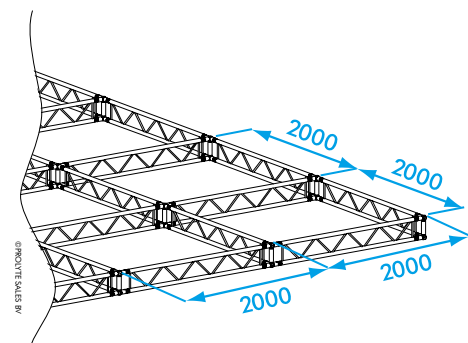


Spans must be supported at each end. Loads must be suspended from bottom chord only.

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

SPAN		UNIFORMLY DISTRIBUTED LOAD		DEFLECTION		CPL		DEFLECTION	
		UDL							
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 | 1m = 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



Photo: Italstage, Italy

System Characteristics

The Prolyte Heavy Duty truss comprises 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 comparatively compactness and ultimate strength, while a user-friendly design, durability and unrivalled loading capacities make these trusses a flexible and reliable choice for many events.

System Applications

The Heavy Duty trusses are the ultimate solution for structures with high load bearing demands and high frequency usage, such as 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

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



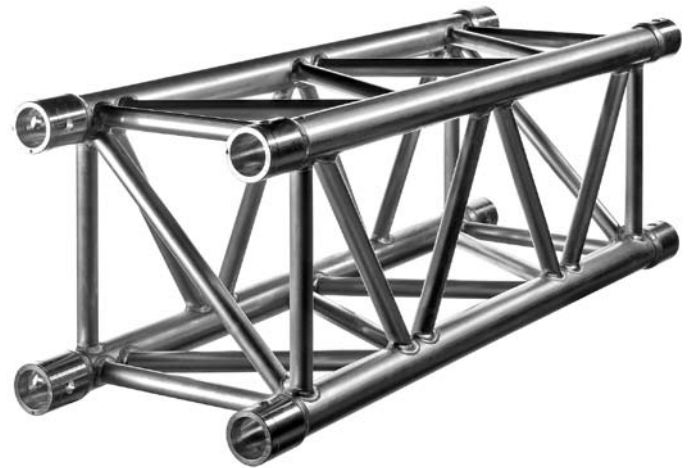
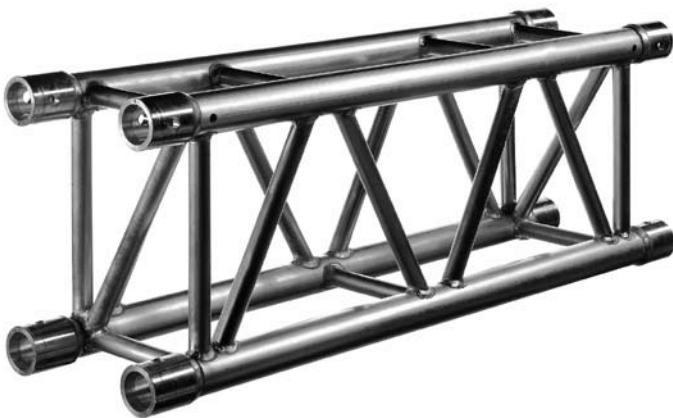
PROLYTE S36R / S36V TRUSS

Photo : Prolyte Sales BV
Project : Amusement park, Germany

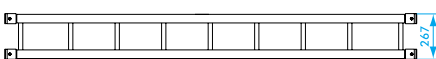


S36 truss is constructed of main tubes of 50 x 4 mm and diagonals of 25 x 3 mm. Use the CCS7 coupling system. Prolyte supplies a variety of S36 truss elements that provide maximum flexibility, like standard or custom made lengths, circles and arches and several types of corners. Prolyte can deliver custom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

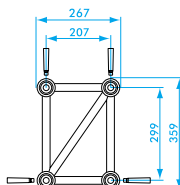
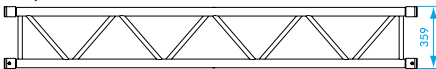
The S36V has a 4-sided diagonal webbing and can therefore absorb vertical as well as horizontal loads. The S36R can only absorb vertical loading. Thanks to the clever spigot pin orientation in the couplers, assembly of the truss is foolproof.



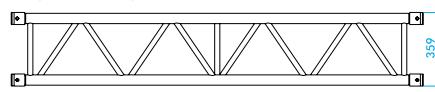
Prolyte S36R top view



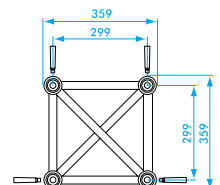
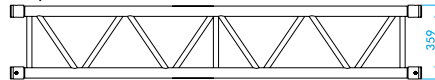
Prolyte S36R side view



Prolyte S36V top view



Prolyte S36V side view



©PROLYTE SALES BV

PROLYTE S36R - ALLOWABLE LOADING

SPAN		UNIFORMLY DISTRIBUTED LOAD		DEFLECTION		MAXIMUM ALLOWABLE POINT LOADS									
						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	CPL		DEFLECTION		TPL		QPL		FPL	
						kg	lbs	mm	inch	kg	lbs	kg	lbs	kg	lbs
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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

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, wind loads or more supporting points are applied contact a structural engineer or Prolyte.
- **Loading figures are based on the German DIN standards. To comply to the BS and ANSI standards the loading data have to be multiplied with 0,85**
- Self-weight of the trusses is already taken into account.
- For longer spans than indicated in the table, use KYLo or contact Prolyte to supply data on request.



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

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	Iy	4445,1	4445,1	cm ⁴
Moment of Inertia Z-axis	Iz	1250,0	4445,1	cm ⁴
Allowable bending moment Y-axis	My	24,89	24,89	kNm
Allowable bending moment Z-axis	Mz	-	24,89	kNm
Allowable shear force Z-axis	Qz/Vz	23,46	23,46	kN
Allowable shear force Y-axis	Qy/Vy	-	23,46	kN
Selfweight	kg	10,5	12	kg/m

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

PROLYTE S36R / S36V TRUSS

PROLYTE S36V - ALLOWABLE LOADING															
SPAN		UNIFORMLY DISTRIBUTED LOAD		DEFLECTION		MAXIMUM ALLOWABLE POINT LOADS									
						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	
						CPL		DEFLECTION		TPL		QPL		FPL	
m	ft	kg/m	lbs/ft	mm	inch	kg	lbs	mm	inch	kg	lbs	kg	lbs	kg	lbs
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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

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, wind loads or more supporting points are applied contact a structural engineer or Prolyte.
- Loading figures are based on the German DIN standards. To comply to the BS and ANSI standards the loading data have to be multiplied with 0,85
- Self-weight of the trusses is already taken into account.
- For longer spans than indicated in the table, use KYLo or contact Prolyte to supply data on request.



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

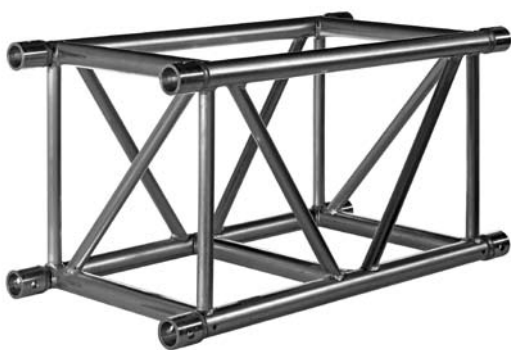
PROLYTE S52F / S52S / S52SV TRUSS

Photo : AED Rent, Belgium
Project : Party tent

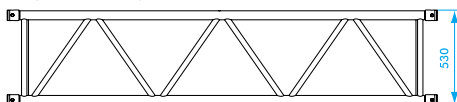


S52 truss is constructed of main tubes of 50 x 4 mm and diagonals of 25 x 3 mm (S52F) or 30 x 3mm (S52V and SV). Use the CCS7 coupling system. Prolyte supplies a variety of S52 truss elements that provide maximum flexibility, like standard or custom made lengths, circles and arches and several types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

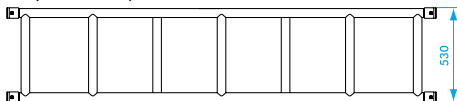
The S52SV has a 4-sided diagonal webbing and can therefore absorb vertical as well as horizontal loads. The S52V can only absorb vertical loading. The S52F folding truss can save up to 70-80% of warehouse and truck space, smart placing of the hinges prevents personal injuries. Thanks to the clever spigot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



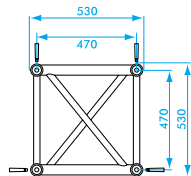
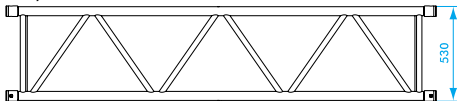
Prolyte S52SV top view



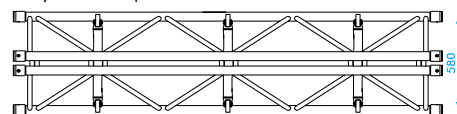
Prolyte S52V top view



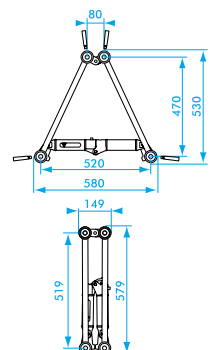
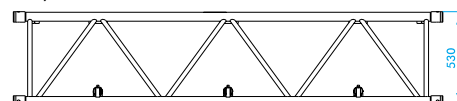
Prolyte S52SV and S52V side view



Prolyte S52F top view



Prolyte S52F side view



PROLYTE S52F / S52S / S52SV TRUSS

PROLYTE S52F - ALLOWABLE LOADING															
SPAN		UNIFORMLY DISTRIBUTED LOAD		DEFLECTION		MAXIMUM ALLOWABLE POINT LOADS									
						CENTRE POINT LOAD		DEFLECTION		SINGLE LOAD THIRD POINTS		SINGLE LOAD FOURTH POINTS		SINGLE LOAD FIFTH POINTS	
						kg	lbs			LOAD PER POINT	LOAD PER POINT	LOAD PER POINT	LOAD PER POINT		
m	ft	kg/m	lbs/ft	mm	inch	CPL		DEFLECTION		TPL		QPL		FPL	
						kg	lbs	mm	inch	kg	lbs	kg	lbs	kg	lbs
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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

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, wind loads or more supporting points are applied contact a structural engineer or Prolyte.
- Loading figures are based on the German DIN standards. To comply to the BS and ANSI standards the loading data have to be multiplied with 0,85
- Self-weight of the trusses is already taken into account.
- For longer spans than indicated in the table, use KYLo or contact Prolyte to supply data on request.



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

PROLYTE S52SV AND S52V - ALLOWABLE LOADING

SPAN		UNIFORMLY DISTRIBUTED LOAD		DEFLECTION		MAXIMUM ALLOWABLE POINT LOADS									
						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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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

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, wind loads or more supporting points are applied contact a structural engineer or Prolyte.
- Loading figures are based on the German DIN standards. To comply to the BS and ANSI standards the loading data have to be multiplied with 0,85
- Self-weight of the trusses is already taken into account.
- For longer spans than indicated in the table, use KYLo or contact Prolyte to supply data on request.



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 / S52S / 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	ly	10906,2	10906,2	10906,2	cm ⁴
Moment of Inertia Z-axis	lz		3650,0	10906,2	cm ⁴
Allowable bending moment Y-axis	My	39,12	39,12	39,12	kNm
Allowable bending moment Z-axis	Mz			39,12	kNm
Allowable shear force Z-axis	Qz/Vz	18,0	28,79	28,79	kN
Allowable shear force Y-axis	Qy/Vy			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

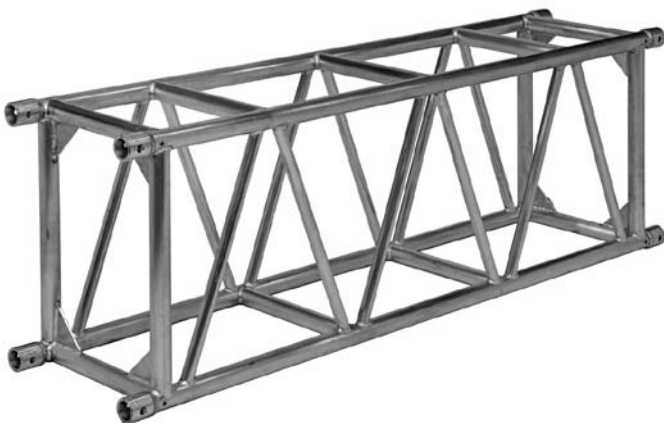
PROLYTE S66R / S66V TRUSS

Photo : Italstage, Italy

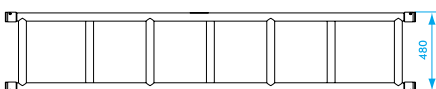


S66 truss is constructed of main tubes of 50 x 4 mm and diagonals of 30 x 3 mm. Use the CCS7 coupling system. Both the S66R and S66V have a two-sided webbing and are capable of absorbing horizontal loads only.

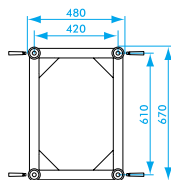
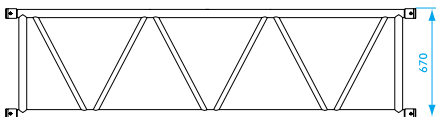
Prolyte supplies a variety of S66 truss elements that provide maximum flexibility, like standard or custom made lengths, circles and arches and several types of corners. Prolyte can deliver custom made pieces on request.



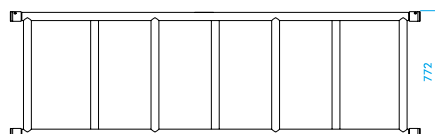
Prolyte S66R top view



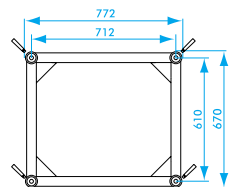
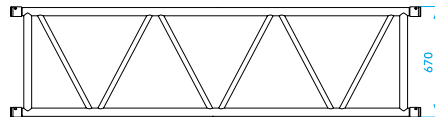
Prolyte S66R side view



Prolyte S66V top view



Prolyte S66V side view



PROLYTE S66R / S66V PRE RIGGED TRUSS

Photo : Qatar Vision, Qatar

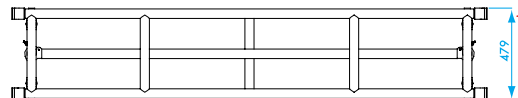


The Prolyte S66R and V trusses can be supplied with a robust drop down system to provide the fitting of either a 4-bar, 6-bar or 8-bar with PAR 64 cans, or other lighting fixtures.

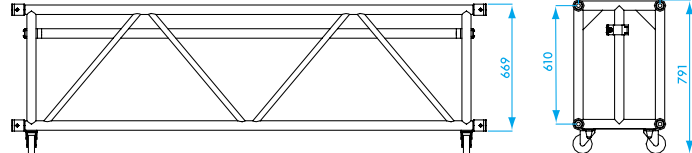
This integrated drop down system converts the S66 truss into a so-called PRE-rigged truss. The S66 truss can be delivered with a set of castor wheels to facilitate handling and transportation.



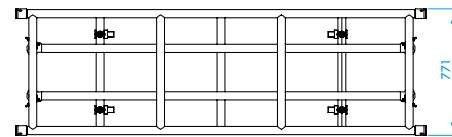
Prolyte S66R PRE RIG top view



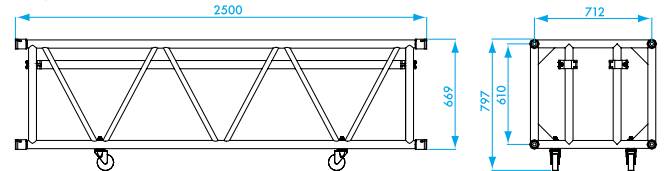
Prolyte S66R PRE RIG side view



Prolyte S66V PRE RIG top view



Prolyte S66V PRE RIG side view



©PROLYTE SALES BV

PROLYTE S66R AND S66V - ALLOWABLE LOADING															
SPAN		UNIFORMLY DISTRIBUTED LOAD		DEFLECTION		MAXIMUM ALLOWABLE POINT LOADS									
						CENTRE POINT LOAD		DEFLECTION		SINGLE LOAD THIRD POINTS		SINGLE LOAD FOURTH POINTS		SINGLE LOAD FIFTH POINTS	
						TPL	QPL			FPL					
m	ft	kg/m	lbs/ft	mm	inch	kg	lbs	mm	inch	kg	lbs	kg	lbs	kg	lbs
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
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
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
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
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
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
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
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
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
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
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
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
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
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
16	52,5	141,7	95,3	105	4,13	1133,4	2501,4	84	3,30	850,1	1876,1	566,7	1250,7	470,4	1038,1
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
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
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
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
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
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
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
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

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, wind loads or more supporting points are applied contact a structural engineer or Prolyte.
- Loading figures are based on the German DIN standards. To comply to the BS and ANSI standards the loading data have to be multiplied with 0,85
- Self-weight of the trusses is already taken into account.
- For longer spans than indicated in the table, use KYLo or contact Prolyte to supply data on request.



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	S66•PR-L174
2,00	6,56	S66•-L200	
2,50*	8,20	S66•-L250	S66•PR-L250
3,00	9,84	S66•-L300	
3,26*	10,69	S66•-L326	S66•PR-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

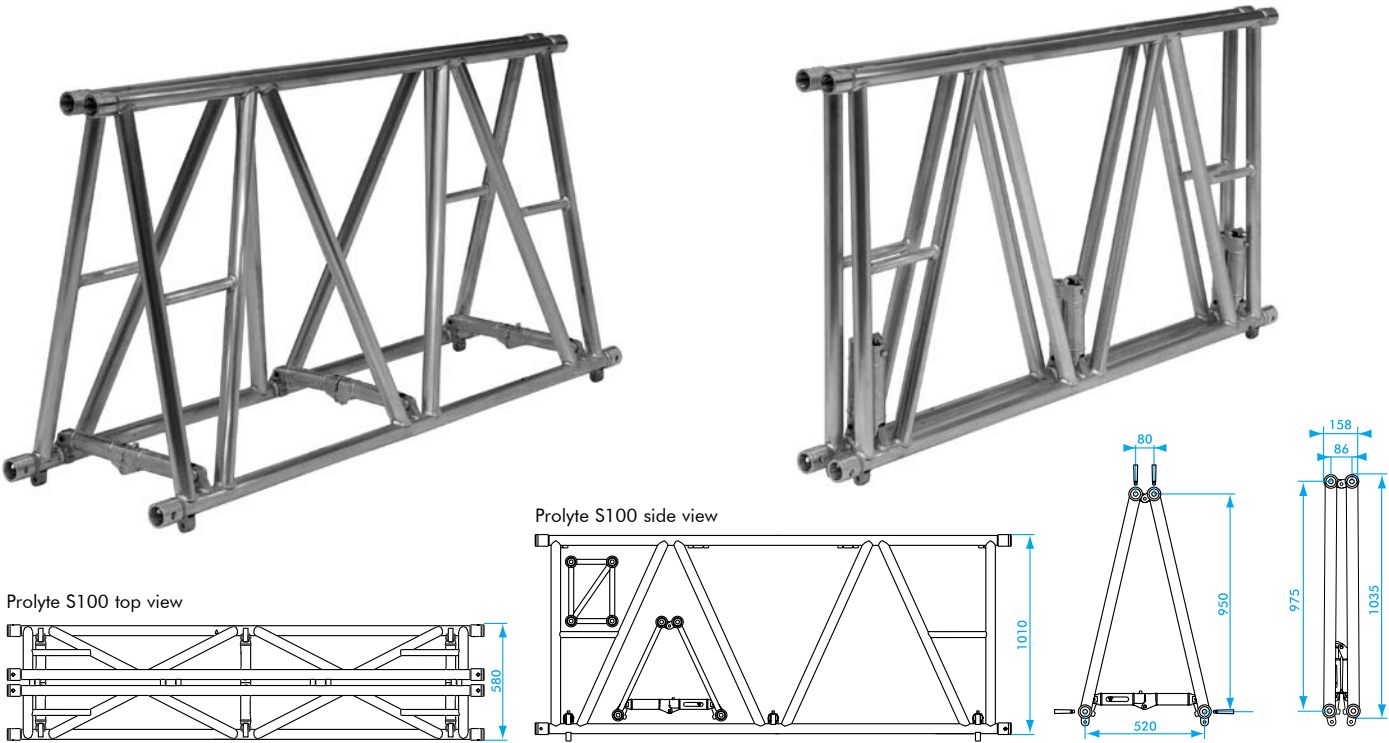
PROLYTE S100F TRUSS

Photo : AED RENT, Belgium
 Project : Fashion show



S100F truss is constructed of main tubes of 50 x 4 mm and diagonals of 48 x 3 mm. Use 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 up to 30 metres.

The geometry of the bracing gives the possibility to combine the S100F truss with the S52F or S36R truss. Extra horizontal braces are welded between the diagonals to facilitate climbing of the truss for technicians. The S100F folding truss can save up to 70-80% of warehouse and truck space, clever placing of the hinges prevents the possibility of personal injuries. Thanks to the clever spigot pin orientation in the couplers, assembly of the truss is foolproof.



©PROLYTE SALES BV

PROLYTE S100F TRUSS

PROLYTE S100F - ALLOWABLE LOADING															
SPAN		UNIFORMLY DISTRIBUTED LOAD		DEFLECTION		MAXIMUM ALLOWABLE POINT LOADS									
						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	CPL		DEFLECTION		TPL		QPL		FPL	
						kg	lbs	mm	inch	kg	lbs	kg	lbs	kg	lbs
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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

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, wind loads or more supporting points are applied contact a structural engineer or Prolyte.
- Loading figures are based on the German DIN standards. To comply to the BS and ANSI standards the loading data have to be multiplied with 0,85
- Self-weight of the trusses is already taken into account.
- For longer spans than indicated in the table, use KYLo or contact Prolyte to supply data on request.



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	ly	44396,3	cm ⁴
Moment of Inertia Z-axis	lz		cm ⁴
Allowable bending moment Y-axis	My	79,08	kNm
Allowable bending moment Z-axis	Mz		kNm
Allowable shear force Z-axis	Qz/Vz	12,0	kN
Allowable shear force Y-axis	Qy/Vy		kN
Selfweight	kg	18	kg/m

Photo : ModifiC, Russian federation
Project : Armenian festival

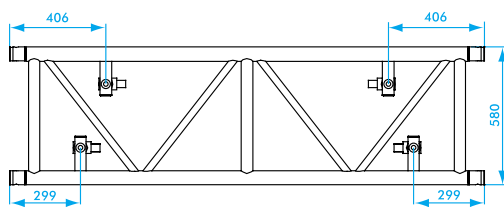


B100RV truss is constructed of main tubes of 60 x 6 mm and diagonals of 48 x 3 mm. Use the CCS7 coupling system. Prolyte supplies a variety of B100 truss elements that provide maximum flexibility, like standard or custom made lengths, circles and arches and some corners. Prolyte can deliver custom made pieces on request.

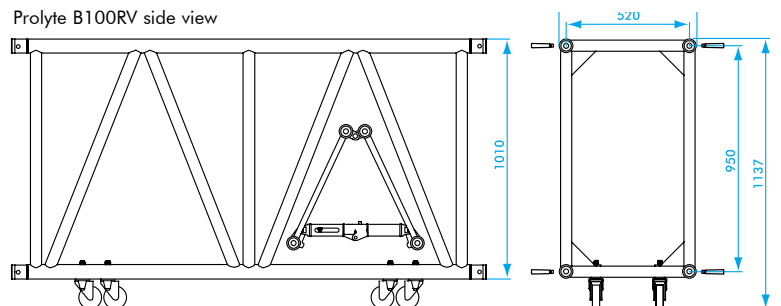
The B100 truss is easy accessible for technicians, making it more safe to climb. Due to the 4-sided webbing of the B100 truss, it can absorb vertical as well as horizontal forces, which makes it ideal for outdoor use or 3 dimensional structures. The B100RV is standard equipped with a set of castors. 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



PROLYTE B100RV TRUSS

PROLYTE B100RV - ALLOWABLE LOADING

SPAN		UNIFORMLY DISTRIBUTED LOAD		DEFLECTION		MAXIMUM ALLOWABLE POINT LOADS									
						CENTRE POINT LOAD		DEFLECTION		SINGLE LOAD THIRD POINTS		SINGLE LOAD FOURTH POINTS		SINGLE LOAD FIFTH POINTS	
m	ft	kg/m	lbs/ft	mm	inch	CPL		DEFLECTION		TPL		QPL		FPL	
						kg	lbs	mm	inch	kg	lbs	kg	lbs	kg	lbs
2	6,6	6137,5	4129,7	1	0,03	12274,9	27090,8	1	0,03	6137,5	13545,4	4085,0	9015,5	3068,7	6772,7
3	9,8	4085,0	2748,6	2	0,07	12254,9	27046,6	2	0,07	6127,5	13523,3	4075,0	8993,5	3063,7	6761,7
4	13,1	3058,7	2058,1	4	0,15	12101,4	26707,9	3	0,11	6117,5	13501,3	4065,0	8971,4	3058,7	6750,6
5	16,4	2443,0	1643,8	6	0,24	9663,1	21326,6	5	0,19	6107,5	13479,2	4055,0	8949,3	3053,7	6739,6
6	19,7	2032,5	1367,6	8	0,31	8034,3	17731,7	7	0,27	6025,7	13298,8	4017,1	8865,8	3048,7	6728,6
7	23,0	1739,3	1170,3	11	0,43	6868,0	15157,6	9	0,35	5151,0	11368,2	3434,0	7578,8	2850,2	6290,4
8	26,2	1497,7	1007,7	15	0,59	5990,7	13221,5	12	0,47	4493,0	9916,1	2995,4	6610,8	2486,1	5486,9
9	29,5	1179,2	793,4	19	0,74	5306,2	11710,8	15	0,59	3979,6	8783,1	2653,1	5855,4	2202,1	4860,0
10	32,8	951,3	640,1	23	0,90	4756,6	10497,8	18	0,70	3567,4	7873,3	2378,3	5248,9	1974,0	4356,6
11	36,1	782,7	526,7	28	1,10	4305,1	9501,3	22	0,86	3228,8	7126,0	2152,5	4750,6	1786,6	3943,0
12	39,4	654,5	440,4	33	1,30	3927,1	8667,2	27	1,06	2945,4	6500,4	1963,6	4333,6	1629,8	3596,9
13	42,6	554,7	373,3	39	1,53	3605,8	7958,1	31	1,22	2704,4	5968,5	1802,9	3979,0	1496,4	3302,6
14	45,9	475,6	320,0	45	1,77	3329,0	7347,1	36	1,41	2496,7	5510,3	1664,5	3673,5	1381,5	3049,0
15	49,2	411,7	277,0	52	2,04	3087,7	6814,6	42	1,65	2315,8	5110,9	1543,9	3407,3	1281,4	2828,1
16	52,5	359,4	241,8	59	2,32	2875,4	6345,9	47	1,85	2156,5	4759,4	1437,7	3173,0	1193,3	2633,6
17	55,8	316,1	212,7	67	2,63	2686,8	5929,8	53	2,08	2015,1	4447,3	1343,4	2964,9	1115,0	2460,9
18	59,0	279,8	188,3	75	2,95	2518,1	5557,4	60	2,36	1888,6	4168,1	1259,0	2778,7	1045,0	2306,3
19	62,3	249,1	167,6	83	3,26	2366,1	5222,0	67	2,63	1774,6	3916,5	1183,0	2611,0	981,9	2167,1
20	65,6	222,8	149,9	92	3,62	2228,3	4917,8	74	2,91	1671,2	3688,4	1114,1	2458,9	924,7	2040,9
21	68,9	200,3	134,7	102	4,01	2102,7	4640,6	82	3,22	1577,0	3480,4	1051,3	2320,3	872,6	1925,8
22	72,2	180,7	121,6	112	4,40	1987,5	4386,5	89	3,50	1490,7	3289,9	993,8	2193,2	824,8	1820,4
23	75,4	163,6	110,1	122	4,80	1881,6	4152,6	98	3,85	1411,2	3114,4	940,8	2076,3	780,8	1723,3
24	78,7	148,6	100,0	133	5,23	1783,6	3936,3	106	4,17	1337,7	2952,3	891,8	1968,2	740,2	1633,6
25	82,0	135,4	91,1	144	5,66	1692,6	3735,6	116	4,56	1269,5	2801,7	846,3	1867,8	702,4	1550,3
26	85,3	123,7	83,2	156	6,14	1607,9	3548,7	125	4,92	1205,9	2661,5	804,0	1774,3	667,3	1472,7
27	88,6	113,2	76,2	168	6,61	1528,7	3373,9	135	5,31	1146,5	2530,4	764,4	1687,0	634,4	1400,2
28	91,8	103,9	69,9	181	7,12	1454,5	3210,1	145	5,70	1090,9	2407,5	727,2	1605,0	603,6	1332,2
29	95,1	95,5	64,3	194	7,63	1384,7	3056,0	155	6,10	1038,5	2292,0	692,3	1528,0	574,6	1268,2
30	98,4	87,9	59,2	208	8,18	1318,9	2910,7	166	6,53	989,1	2183,0	659,4	1455,4	547,3	1207,9
31	101,7	81,1	54,6	222	8,74	1256,6	2773,4	178	7,00	942,5	2080,0	628,3	1386,7	521,5	1151,0
32	105,0	74,9	50,4	237	9,33	1197,7	2643,3	189	7,44	898,3	1982,5	598,8	1321,6	497,0	1097,0
33	108,2	69,2	46,6	252	9,92	1141,7	2519,7	201	7,91	856,3	1889,8	570,8	1259,9	473,8	1045,7
34	111,5	64,0	43,1	267	10,51	1088,4	2402,1	214	8,42	816,3	1081,6	544,2	1201,1	451,7	996,9
35	114,8	59,3	39,9	283	11,14	1037,6	2290,0	226	8,89	778,2	1717,5	518,8	1145,0	430,6	950,3
36	118,1	54,9	37,0	299	11,77	989,0	2182,8	240	9,44	741,8	1637,1	494,5	1091,4	410,5	905,9
37	121,4	51,0	34,3	316	12,44	942,6	2080,3	253	9,96	706,9	1560,2	471,3	1040,1	391,2	863,3
38	124,6	47,3	31,8	334	13,14	898,0	1982,0	267	10,51	673,5	1486,5	449,0	991,0	372,7	822,5
39	127,9	43,9	29,5	351	13,81	855,3	1887,6	281	11,06	641,5	1415,7	427,6	943,8	354,9	783,4
40	131,2	40,7	27,4	370	14,56	814,1	1796,8	296	11,65	610,6	1347,6	407,1	898,4	337,9	745,7

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, wind loads or more supporting points are applied contact a structural engineer or Prolyte.
- Loading figures are based on the German DIN standards. To comply to the BS and ANSI standards the loading data have to be multiplied with 0,85
- Self-weight of the trusses is already taken into account.
- For longer spans than indicated in the table, use KYLo or contact Prolyte to supply data on request.



Mark approval certificate
No. 2733/03
Test report No.
TÜV certification only valid
for loading table above.

TECHNICAL SPECIFICATIONS B100 SERIES

Types	Rectangle (R), Square (V)
Alloy	EN AW 6082 T6
Main tubes (chords)	60 x 6 mm
Braces	48 x 3 mm
Coupling system	CCS7 series

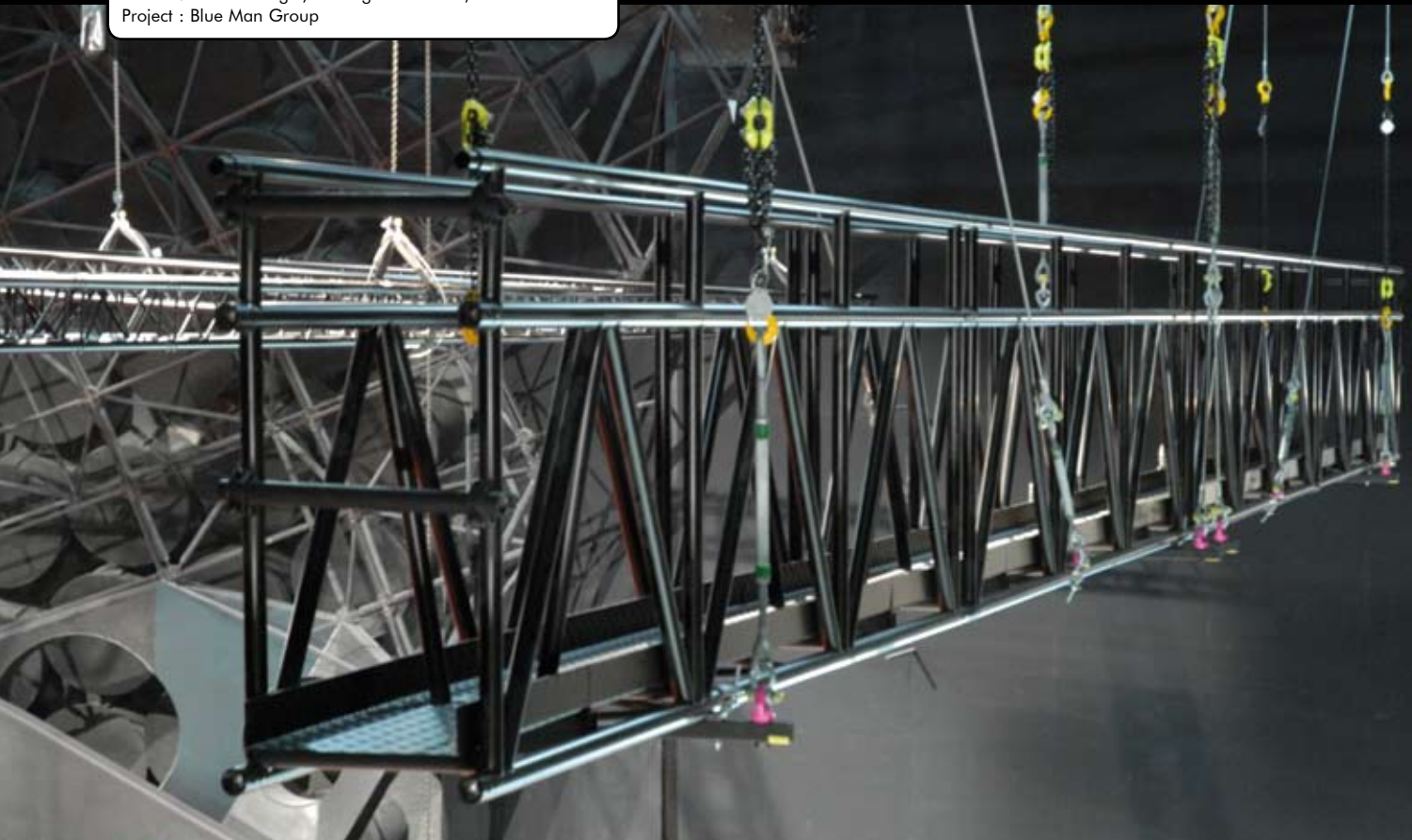
Type		B100RV	
Allowable Normal Force in Main Chord	N	63,90	kN
Allowable Normal Force in Diagonals	N	33,93	kN
Surface area Complete Truss	A	40,72	cm ²
Moment of Inertia Y-axis	I _y	78211,5	cm ⁴
Moment of Inertia Z-axis	I _z	23522,6	cm ⁴
Allowable bending moment Y-axis	M _y	121,41	kNm
Allowable bending moment Z-axis	M _z	66,46	kNm
Allowable shear force Z-axis	Q _z /V _z	61,57	kN
Allowable shear force Y-axis	Q _y /V _y	31,08	kN
Selfweight	kg	25	kg/m

B100RV 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	B100RV•-L100
1,20	3,94	B100RV•-L120
2,00	6,56	B100RV•-L200
2,40	7,87	B100RV•-L240
3,00	9,84	B100RV•-L300

Photo : Jan Hoefnagel, Flashlight Rental BV, The Netherlands
Project : Blue Man Group

PROLYTE CATWALK TRUSS



The Prollyft catwalk truss (B100RV-CW) is designed based on the B100V truss. It can be used to create mother grids or working platforms as well as proscenium or lighting bridges in a theatrical environment. The B100RV-CW truss is fitted with an extra handrail on top and a reinforced plate on the bottom side to create a walking platform.

The catwalk truss can be flown by assembling bracing bars with fixed lifting eyes to the bottom braces of the truss. The catwalk truss is designed and manufactured in compliance with:
DIN 1055, DIN 18800, DIN 4112, DIN 4112/A1,
DIN 4113-1, DIN 4113-1/A1, DIN 4113-2.

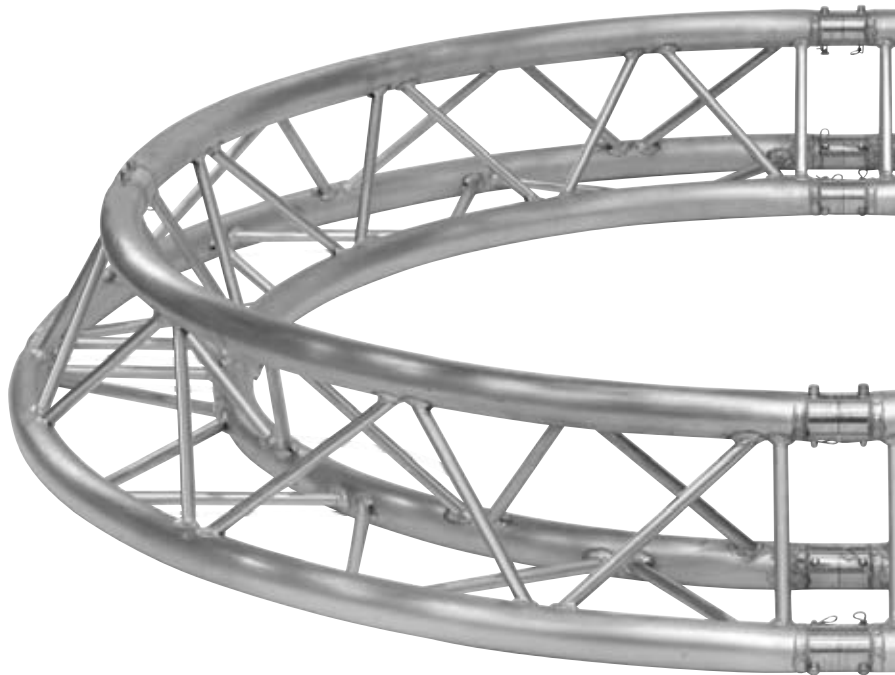
CIRCULAR TRUSS



Photo: AED Rent, Belgium

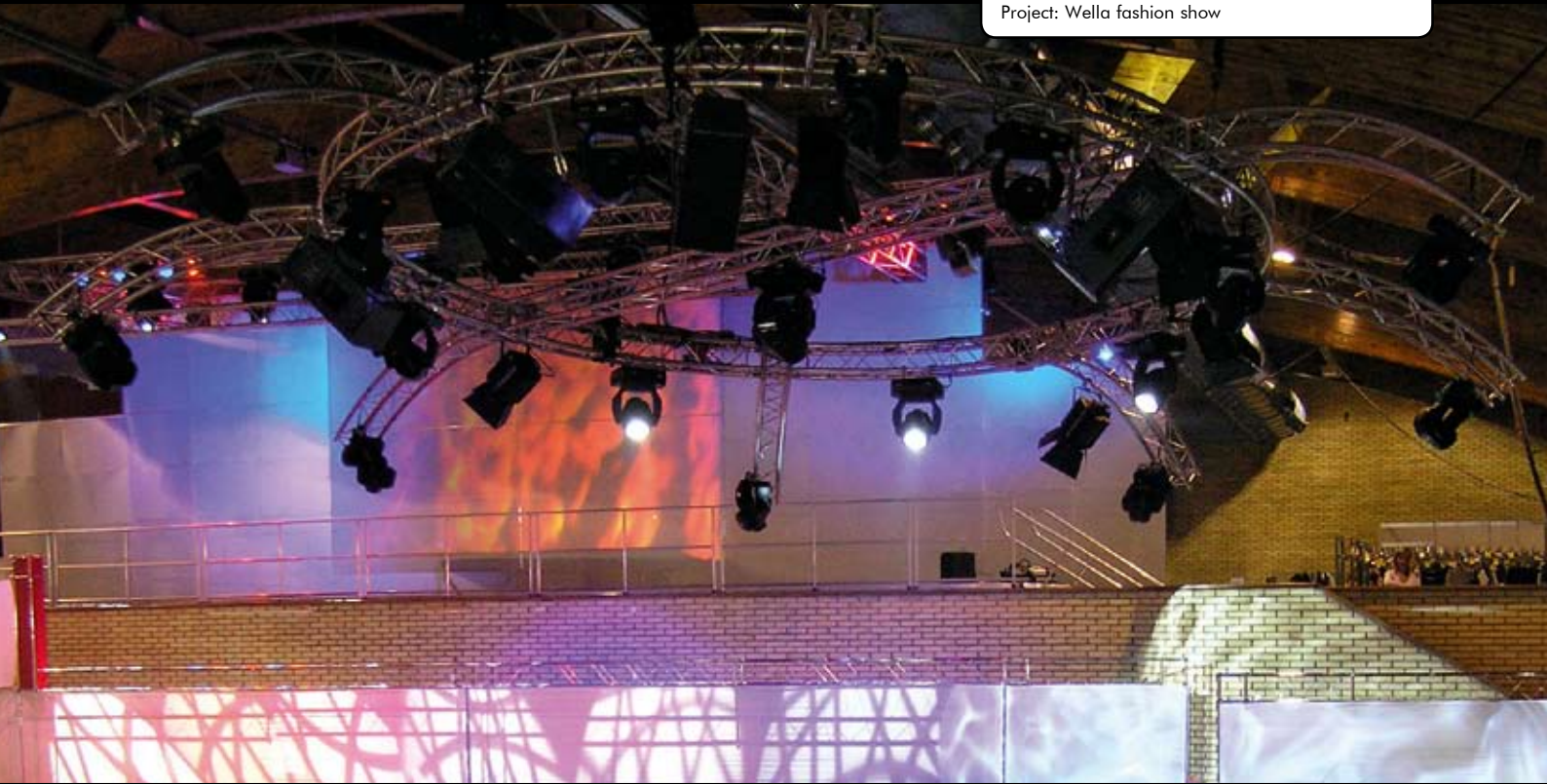
In addition to straight lengths Prolite manufactures circular trusses, curved trusses and arcs. These arched trusses are manufactured with a high degree of accuracy ensuring a perfect fit without distortion.

Thanks to the production by means of semi automated welding jigs all produced parts are identical. This guarantees that every segment of a circle can be mounted at any position or be replaced by a new part, without affecting the integrity or overall shape of the circle.



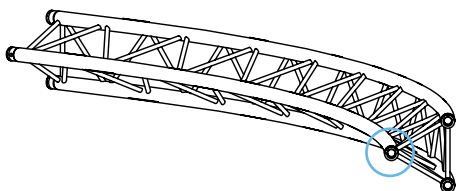
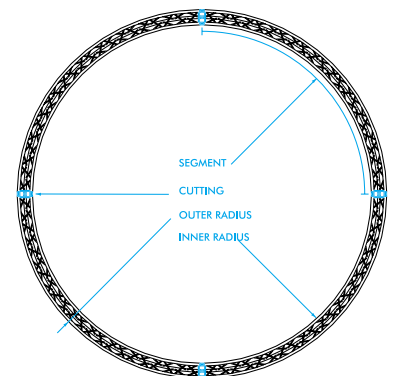
PROLYTE CIRCULAR TRUSS

Photo: PRO 1,
Project: Wella fashion show

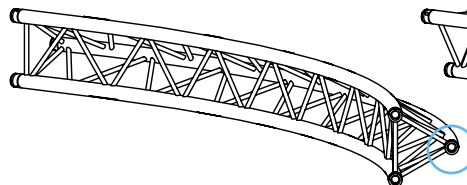


Circular or curved trusses are manufactured in different diameters or degrees. If you order a complete circular truss you have to indicate the amount of cuttings wanted (each segment requires one cut). Couplers do not have to be ordered separately, they are included in the ordered amount of cuttings.

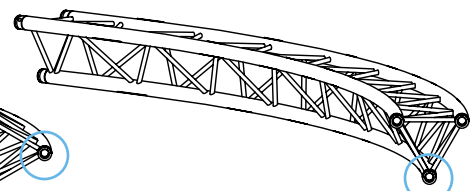
A "cutting" divides the circle into segments. Individual segments cannot be longer than 5 meters, Prolyte would like to advise segment lengths between 3-4 metres. For further reference please read our "Technical Matters".



APEX IN



APEX OUT



APEX DOWN/UP

PROLYTE E20 CIRCULAR TRUSS

Photo: Chritto, Germany



PROLYTE E20D CIRCULAR TRUSS - ALLOWABLE LOADING

DIAMETER		3 SUSPENSION POINTS				4 SUSPENSION POINTS				6 SUSPENSION POINTS				8 SUSPENSION POINTS				10 SUSPENSION POINTS			
		UDL		CPL		UDL		CPL		UDL		CPL		UDL		CPL		UDL		CPL	
m	ft	kg/m	LBS/ft	kg	LBS	kg/m	LBS/ft	kg	LBS	kg/m	LBS/ft	kg	LBS	kg/m	LBS/ft	kg	LBS	kg/m	LBS/ft	kg	LBS
4,00	13,1	18	11,85	48	107	33	22,11	72	158	69	46,66	113	249	108	72,69	142	314	146	98,60	162	358
6,00	19,7	8	5,61	35	76	17	11,39	53	118	39	26,46	91	200	65	43,50	121	267	91	60,91	144	318
8,00	26,2	5	3,09	27	59	10	6,82	42	93	26	17,17	76	167	44	29,52	105	232	63	42,51	129	285
10,00	32,8	3	1,82	22	48	7	4,43	35	77	18	12,03	65	143	32	21,51	93	205	47	31,76	117	258
12,00	39,4	-	-	-	0	4	3,02	30	66	13	8,85	57	125	24	16,42	83	184	37	24,79	107	236
14,00	45,9	-	-	-	0	3	2,12	26	57	10	6,75	50	111	19	12,94	75	166	30	19,96	98	217

PROLYTE E20V CIRCULAR TRUSS - ALLOWABLE LOADING

DIAMETER		3 SUSPENSION POINTS				4 SUSPENSION POINTS				6 SUSPENSION POINTS				8 SUSPENSION POINTS				10 SUSPENSION POINTS			
		UDL		CPL		UDL		CPL		UDL		CPL		UDL		CPL		UDL		CPL	
m	ft	kg/m	LBS/ft	kg	LBS	kg/m	LBS/ft	kg	LBS	kg/m	LBS/ft	kg	LBS	kg/m	LBS/ft	kg	LBS	kg/m	LBS/ft	kg	LBS
4,00	13,1	30	20,43	91	200	51	34,46	123	272	96	64,29	170	376	140	93,93	198	436	183	122,93	214	472
6,00	19,7	16	10,59	68	150	29	19,20	98	216	58	38,73	146	323	87	58,74	178	394	117	78,45	199	439
8,00	26,2	9	6,32	54	120	18	12,24	81	178	39	26,41	128	283	62	41,43	162	359	84	56,40	186	410
10,00	32,8	6	4,07	45	99	12	8,41	69	151	29	19,30	114	251	46	31,24	149	329	64	43,29	174	384
12,00	39,4	4	2,73	38	84	9	6,06	59	131	22	14,75	102	225	37	24,59	137	303	51	34,64	164	362
14,00	45,9	-	-	-	0	7	4,50	52	116	17	11,64	93	204	30	19,93	127	281	42	28,54	155	341

All loading figures are based on Uniformly Divided Suspension points and a suspended load in each of the fields. In all other cases this loading data is NOT valid. If loads are unevenly divided, instability will occur. For more details and loading figures of other diameters we refer to our website.

- Absence of diagonal braces in top and/or bottom side of the truss causes dramatic reduction of the allowable loading. A structural report per situation is required for these models.
- Loading figures are based on the German DIN standards. To comply to the BS and ANSI standards the loading data have to be multiplied with 0,85.

PROLYTE X/H 30 CIRCULAR TRUSS

PROLYTE X30D CIRCULAR TRUSS - ALLOWABLE LOADING

DIAMETER		3 SUSPENSION POINTS				4 SUSPENSION POINTS				6 SUSPENSION POINTS				8 SUSPENSION POINTS				10 SUSPENSION POINTS			
		UDL		CPL		UDL		CPL		UDL		CPL		UDL		CPL		UDL		CPL	
m	ft	kg/m	LBS/ft	kg	LBS	kg/m	LBS/ft	kg	LBS	kg/m	LBS/ft	kg	LBS	kg/m	LBS/ft	kg	LBS	kg/m	LBS/ft	kg	LBS
4,00	13,1	110	73,76	302	667	195	131,02	434	958	389	262,13	652	1440	590	397,37	798	1762	789	530,79	892	1968
6,00	19,7	55	37,30	220	486	105	70,52	331	731	227	153,00	538	1187	361	242,76	695	1534	495	333,00	806	1779
8,00	26,2	33	22,22	173	382	66	44,08	267	590	151	101,88	457	1009	249	167,90	616	1359	350	235,76	735	1623
10,00	32,8	22	14,51	142	314	45	30,04	224	494	107	72,08	374	825	185	124,52	503	1110	265	178,54	631	1394
12,00	39,4	15	10,04	121	267	32	21,21	193	425	74	49,60	309	681	133	89,34	417	921	209	140,45	524	1158
14,00	45,9	11	7,22	105	231	23	15,18	165	365	54	36,04	262	578	97	65,24	355	784	153	102,79	448	989

PROLYTE H30D CIRCULAR TRUSS - ALLOWABLE LOADING

DIAMETER		3 SUSPENSION POINTS				4 SUSPENSION POINTS				6 SUSPENSION POINTS				8 SUSPENSION POINTS				10 SUSPENSION POINTS			
		UDL		CPL		UDL		CPL		UDL		CPL		UDL		CPL		UDL		CPL	
m	ft	kg/m	LBS/ft	kg	LBS	kg/m	LBS/ft	kg	LBS	kg/m	LBS/ft	kg	LBS	kg/m	LBS/ft	kg	LBS	kg/m	LBS/ft	kg	LBS
4,00	13,1	114	76,81	316	698	203	136,93	455	1004	408	274,59	684	1509	619	416,60	837	1848	827	556,69	935	2065
6,00	19,7	57	38,52	230	508	109	73,40	346	765	238	160,01	563	1243	378	254,25	729	1609	519	349,01	845	1866
8,00	26,2	34	22,69	181	399	68	45,64	279	617	158	106,32	478	1056	261	175,64	645	1424	367	246,91	771	1701
10,00	32,8	22	14,60	148	328	46	30,91	234	516	113	76,16	416	918	193	130,11	551	1216	278	186,82	674	1488
12,00	39,4	15	10,04	126	278	33	22,10	201	443	85	57,30	362	798	150	100,83	467	1031	219	147,61	588	1298
14,00	45,9	11	7,22	109	240	24	16,41	176	388	63	42,10	306	675	114	76,58	397	877	179	120,21	502	1107

PROLYTE X30V CIRCULAR TRUSS - ALLOWABLE LOADING

DIAMETER		3 SUSPENSION POINTS				4 SUSPENSION POINTS				6 SUSPENSION POINTS				8 SUSPENSION POINTS				10 SUSPENSION POINTS			
		UDL		CPL		UDL		CPL		UDL		CPL		UDL		CPL		UDL		CPL	
m	ft	kg/m	LBS/ft	kg	LBS	kg/m	LBS/ft	kg	LBS	kg/m	LBS/ft	kg	LBS	kg/m	LBS/ft	kg	LBS	kg/m	LBS/ft	kg	LBS
4,00	13,1	179	120,57	547	1208	291	195,52	721	1592	521	350,60	952	2102	747	503,05	1078	2380	969	652,14	1149	2537
6,00	19,7	97	65,53	422	933	167	112,70	588	1297	320	215,57	838	1849	474	318,95	991	2187	624	420,28	1084	2392
8,00	26,2	61	41,10	343	758	110	74,15	495	1093	223	149,85	747	1649	339	227,94	916	2022	453	304,97	1025	2263
10,00	32,8	42	27,96	289	637	78	52,62	427	944	166	111,58	674	1488	259	174,06	852	1880	351	236,25	972	2146
12,00	39,4	30	20,05	248	549	58	39,23	376	829	129	86,85	614	1355	206	138,67	796	1757	283	190,78	924	2040
14,00	45,9	22	14,89	218	481	45	30,27	335	739	104	69,75	563	1242	169	113,79	746	1648	236	158,57	881	1944

PROLYTE H30V CIRCULAR TRUSS - ALLOWABLE LOADING

DIAMETER		3 SUSPENSION POINTS				4 SUSPENSION POINTS				6 SUSPENSION POINTS				8 SUSPENSION POINTS				10 SUSPENSION POINTS			
		UDL		CPL		UDL		CPL		UDL		CPL		UDL		CPL		UDL		CPL	
m	ft	kg/m	LBS/ft	kg	LBS	kg/m	LBS/ft	kg	LBS	kg/m	LBS/ft	kg	LBS	kg/m	LBS/ft	kg	LBS	kg/m	LBS/ft	kg	LBS
4,00	13,1	187	125,98	573	1264	304	204,56	755	1667	546	367,39	998	2203	785	528,21	1130	2495	1016	684,00	1206	2661
6,00	19,7	101	68,13	441	974	175	117,59	615	1357	335	225,61	877	1937	498	334,90	1038	2292	655	440,55	1136	2508
8,00	26,2	63	42,45	358	790	115	77,12	517	1142	233	156,61	782	1726	356	239,34	960	2118	475	319,48	1074	2371
10,00	32,8	43	28,65	300	663	81	54,51	446	984	173	116,41	705	1556	272	182,77	892	1968	367	247,31	1018	2247
12,00	39,4	30	20,33	258	570	60	40,44	391	864	134	90,45	641	1415	216	145,60	832	1837	297	199,57	967	2136
14,00	45,9	22	14,91	226	499	46	31,04	348	769	108	72,49	587	1297	178	119,48	780	1722	246	165,76	921	2034

All loading figures are based on Uniformly Divided Suspension points and a suspended load in each of the fields. In all other cases this loading data is NOT valid. If loads are unevenly divided, instability will occur. For more details and loading figures of other diameters we refer to our website.

- Absence of diagonal braces in top and/or bottom side of the truss causes dramatic reduction of the allowable loading. A structural report per situation is required for these models.
- Loading figures are based on the German DIN standards. To comply to the BS and ANSI standards the loading data have to be multiplied with 0,85.

PROLYTE H40, S36V AND S52SV CIRCULAR TRUSS

PROLYTE H40D CIRCULAR TRUSS - ALLOWABLE LOADING

DIAMETER		3 SUSPENSION POINTS				4 SUSPENSION POINTS				6 SUSPENSION POINTS				8 SUSPENSION POINTS				10 SUSPENSION POINTS			
		UDL		CPL		UDL		CPL		UDL		CPL		UDL		CPL		UDL		CPL	
m	ft	kg/m	LBS/ft	kg	LBS	kg/m	LBS/ft	kg	LBS	kg/m	LBS/ft	kg	LBS	kg/m	LBS/ft	kg	LBS	kg/m	LBS/ft	kg	LBS
4,00	13,1	170	114,64	494	1091	289	194,30	681	1502	544	366,38	957	2112	800	538,53	1122	2477	1051	707,13	1221	2696
6,00	19,7	89	60,06	370	818	161	108,34	537	1184	327	220,03	816	1801	499	335,95	1006	2222	669	450,50	1130	2495
8,00	26,2	54	36,66	296	653	103	69,49	442	976	223	149,92	711	1570	352	236,60	912	2014	481	323,42	1052	2322
10,00	32,8	36	24,40	246	542	72	48,30	376	830	163	109,71	597	1319	265	178,29	804	1774	369	248,05	983	2171
12,00	39,4	25	17,16	210	463	50	33,92	317	699	118	79,25	493	1089	209	140,34	666	1471	295	198,44	838	1849
14,00	45,9	19	12,51	183	404	36	24,29	265	584	86	57,60	418	923	155	104,24	568	1253	243	163,49	715	1579

PROLYTE H40V CIRCULAR TRUSS - ALLOWABLE LOADING

DIAMETER		3 SUSPENSION POINTS				4 SUSPENSION POINTS				6 SUSPENSION POINTS				8 SUSPENSION POINTS				10 SUSPENSION POINTS			
		UDL		CPL		UDL		CPL		UDL		CPL		UDL		CPL		UDL		CPL	
m	ft	kg/m	LBS/ft	kg	LBS	kg/m	LBS/ft	kg	LBS	kg/m	LBS/ft	kg	LBS	kg/m	LBS/ft	kg	LBS	kg/m	LBS/ft	kg	LBS
4,00	13,1	263	176,86	847	1871	409	275,34	1066	2354	703	473,14	1329	2954	990	666,05	1460	3223	1270	855,03	1531	3380
6,00	19,7	148	99,67	677	1494	243	163,58	900	1986	441	296,64	1202	2654	636	427,71	1369	3023	826	555,89	1465	3235
8,00	26,2	96	64,28	562	1240	164	110,32	777	1715	312	209,78	1097	2421	460	309,30	1289	2846	604	406,76	1405	3101
10,00	32,8	67	44,76	480	1059	119	79,92	683	1508	236	158,63	1008	2225	355	238,80	1217	2687	472	317,61	1349	2978
12,00	39,4	49	32,75	418	922	90	60,65	609	1344	186	125,20	932	2057	286	192,20	1153	2545	384	258,43	1297	2863
14,00	45,9	37	24,79	369	815	71	47,55	548	1211	151	101,83	866	1912	237	159,25	1095	2416	321	216,36	1249	2757

PROLYTE S36V CIRCULAR TRUSS - ALLOWABLE LOADING

DIAMETER		3 SUSPENSION POINTS				4 SUSPENSION POINTS				6 SUSPENSION POINTS				8 SUSPENSION POINTS				10 SUSPENSION POINTS			
		UDL		CPL		UDL		CPL		UDL		CPL		UDL		CPL		UDL		CPL	
m	ft	kg/m	LBS/ft	kg	LBS	kg/m	LBS/ft	kg	LBS	kg/m	LBS/ft	kg	LBS	kg/m	LBS/ft	kg	LBS	kg/m	LBS/ft	kg	LBS
4,00	13,1	461	310,2	1458	3218	727	489,6	1864	4115	1268	853,3	2370	5232	1796	1208,7	2630	5805	2313	1556,6	2773	6121
6,00	19,7	256	172,6	1150	2538	428	287,9	1554	3430	790	531,6	2124	4688	1149	773,0	2450	5409	1499	1009,2	2641	5830
8,00	26,2	164	110,3	947	2091	286	192,6	1330	2936	555	373,8	1922	4244	827	556,9	2293	5061	1094	736,5	2521	5564
10,00	32,8	113	76,2	804	1774	206	138,5	1162	2564	418	281,2	1755	3875	637	428,4	2154	4754	825	573,6	2410	5321
12,00	39,4	82	55,4	697	1539	155	104,5	1030	2273	328	220,9	1614	3563	511	343,7	2030	4481	692	465,6	2309	5097
14,00	45,9	62	41,7	614	1356	121	81,5	923	2038	266	178,9	1437	3172	422	283,8	1919	4237	578	388,9	2216	4891

PROLYTE S52SV CIRCULAR TRUSS - ALLOWABLE LOADING

DIAMETER		3 SUSPENSION POINTS				4 SUSPENSION POINTS				6 SUSPENSION POINTS				8 SUSPENSION POINTS				10 SUSPENSION POINTS			
		UDL		CPL		UDL		CPL		UDL		CPL		UDL		CPL		UDL		CPL	
m	ft	kg/m	LBS/ft	kg	LBS	kg/m	LBS/ft	kg	LBS	kg/m	LBS/ft	kg	LBS	kg/m	LBS/ft	kg	LBS	kg/m	LBS/ft	kg	LBS
4,00	13,1	653	439,5	2208	4874	983	661,6	2666	5885	1635	1100,6	3170	6998	2271	1528,2	3405	7515	2895	1948,3	3528	7787
6,00	19,7	380	255,8	1822	4023	599	403,0	2320	5121	1041	700,3	2931	6471	1472	990,5	3243	7158	1894	1274,7	3413	7534
8,00	26,2	252	169,5	1549	3419	413	277,7	2051	4528	746	502,0	2725	6016	1074	722,7	3095	6831	1394	938,4	3305	7297
10,00	32,8	179	120,8	1344	2968	305	205,0	1836	4054	571	384,4	2545	5618	836	562,6	2959	6532	1095	737,1	3204	7073
12,00	39,4	134	90,3	1186	2618	235	158,3	1661	3667	456	306,9	2386	5268	678	456,5	2834	6257	896	603,2	3108	6862
14,00	45,9	104	69,7	1060	2339	187	126,0	1473	3251	375	252,4	2246	4957	566	381,2	2719	6003	754	507,8	3018	6662

All loading figures are based on Uniformly Divided Suspension points and a suspended load in each of the fields. In all other cases this loading data is NOT valid. If loads are unevenly divided, instability will occur. For more details and loading figures of other diameters we refer to our website.

- Absence of diagonal braces in top and/or bottom side of the truss causes dramatic reduction of the allowable loading. A structural report per situation is required for these models.
- Loading figures are based on the German DIN standards. To comply to the BS and ANSI standards the loading data have to be multiplied with 0,85.

FITTINGS

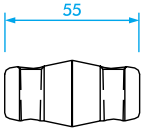



© Prolyte Sales BV. Omke Oudeman

When Prolyte designed the original Conical Coupling System (CCS®) this was a huge step in the development of truss systems. Even today the, now much copied, Conical Coupling System is unrivalled in efficiency, strength and easy of assembly. The innovative Conical Coupling System has many advantages over other types of connection systems and has gained a worldwide reputation for excellence and efficiency.

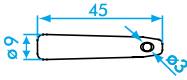

The Conical Coupling System is available for all Prolyte truss systems and is deliverable in 3 sizes, CCS4, CCS6 and CCS7 and a variety of specials. The conical coupling system makes the assembly of your truss system safe, fast and easy. The connection is rigid and strong.

FITTINGS CCS4

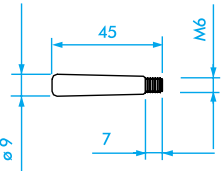

CCS4-400
Conical coupler

Weight = 0,058 kg

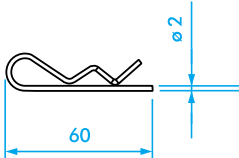

CCS4-403
Spigot

Weight = 0,017 kg
To be used with CCS6-605 safety R-spring

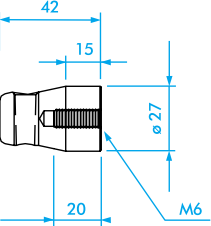

CCS4-404
Spigot with thread M6
CCS4-404RF (stainless steel)

Weight = 0,017 kg
To be used with selflocking nut M6

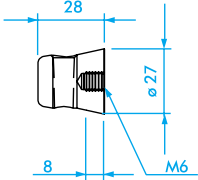

CCS6-605
Safety R-spring

Weight = 0,003 kg

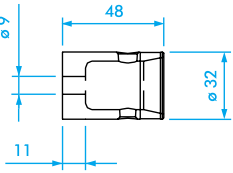

CCS4-402
Offset half Conical coupler

Weight = 0,050 kg
Offset 15 mm, thread M6

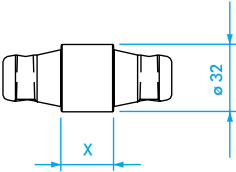

CCS4-450
Half Conical coupler

Weight = 0,029 kg
Offset 0 mm, thread M6

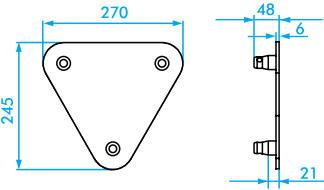

CCS4-451
Female conical coupler

Weight = 0,065 kg
With 9 mm hole for bolts M8

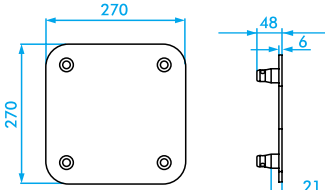

CCS4-S05 through CCS4-S50
Spacers

Weight = 0,070 - 0,170 kg
X= 5 mm to 50 mm in steps of 5 mm


BASE 20D
Baseplate for E20D truss

Weight = 0,740 kg

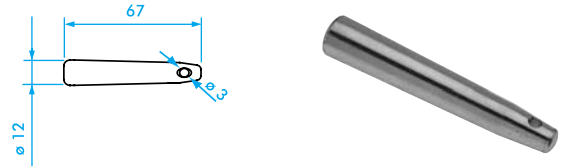
BASE 20V
Baseplate for E20V truss

Weight = 1,170 kg



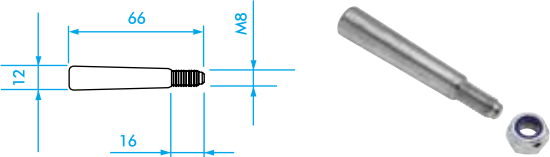
CCS6-600
Conical coupler

Weight = 0,148 kg




CCS6-603
Spigot

Weight = 0,042 kg
To be used with CCS6-605 safety R-spring



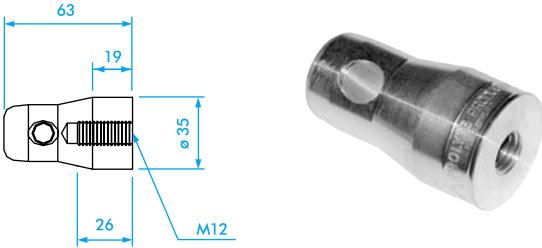
CCS6-604
Spigot with thread M8
CCS6-604RF (stainless steel)

Weight = 0,040 kg
To be used with selflocking nut M8




CCS6-605
Safety R-spring

Weight = 0,003 kg



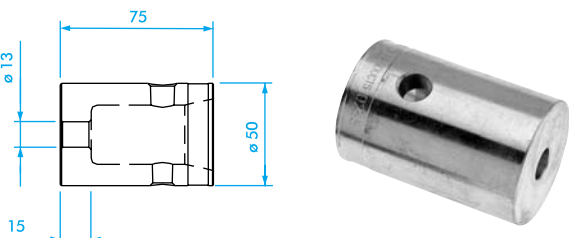
CCS6-602
Offset half Conical coupler

Weight = 0,116kg
Offset 19 mm, thread M12



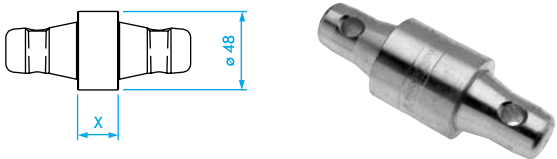
CCS6-650
Half Conical coupler

Weight = 0,069 kg
Offset 0 mm, thread M12



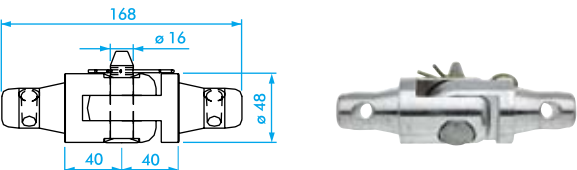
CCS6-651
Female conical coupler

Weight = 0,280 kg
With 12,5 mm hole for bolts M12



CCS6-S05 through CCS6-S50
Spacers

Weight = 0,187 - 0,404 kg
X= 5 mm to 50 mm in steps of 5 mm



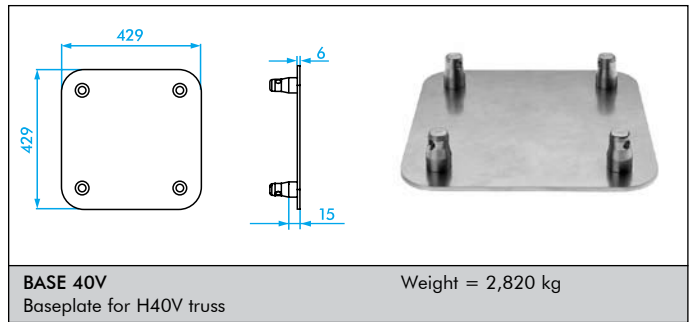
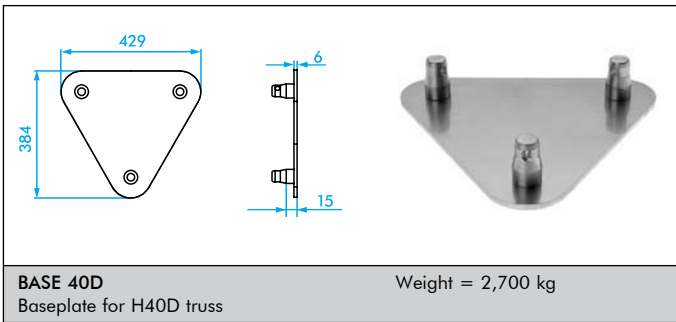
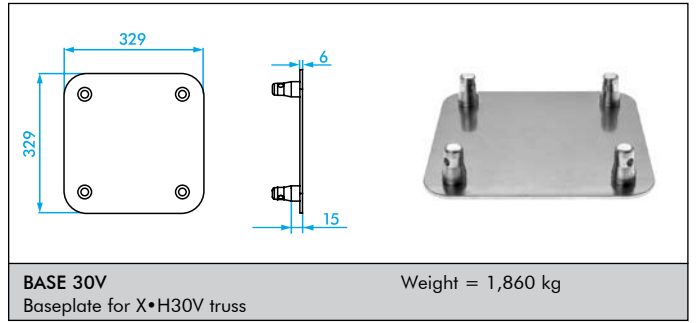
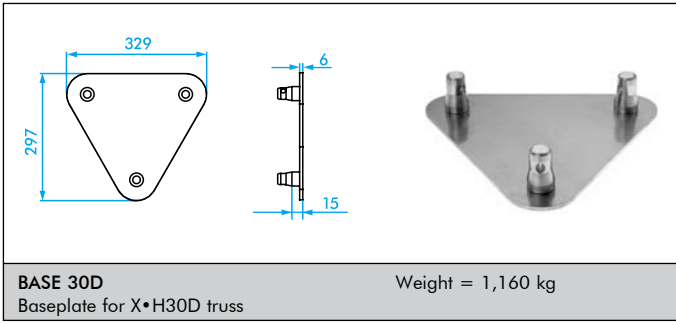
CCS6-H

Weight = 0,590 kg
Hinge for MPT Tower or ST Tower, 4 hinges per tower needed.
See part 3, Miscellaneous, for the use of hinges in different set-ups.

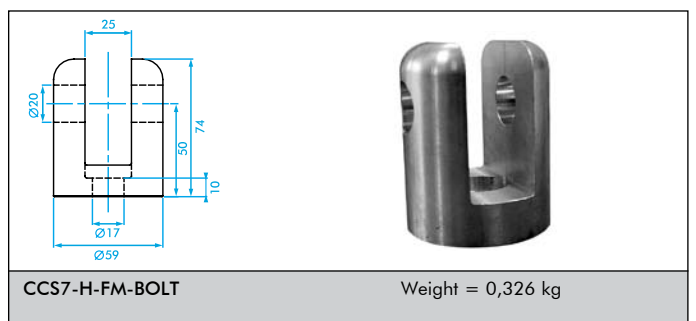
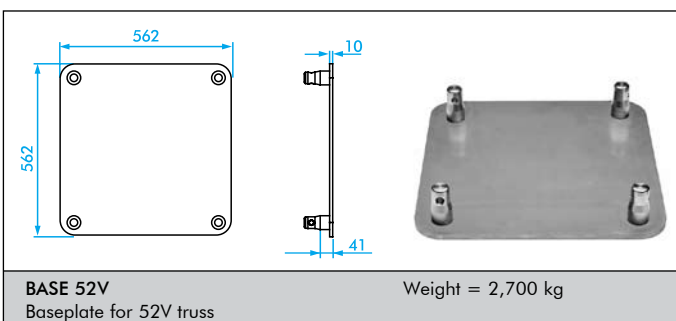
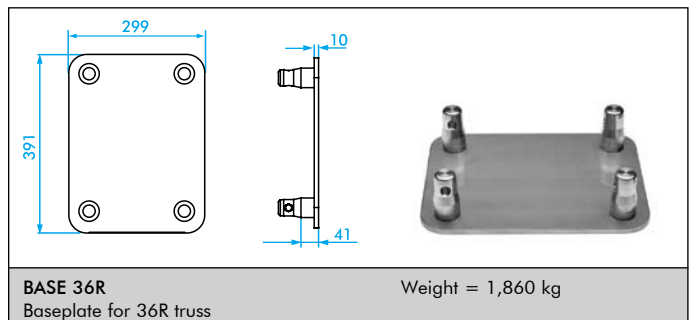
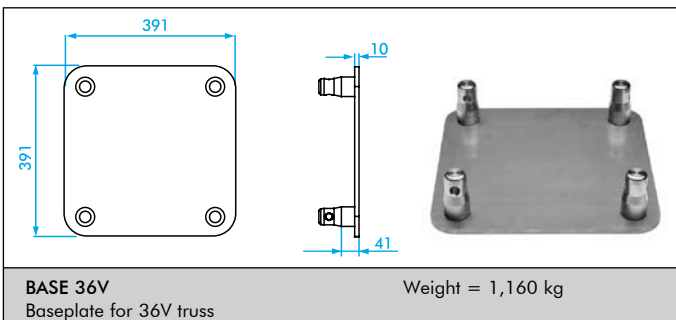


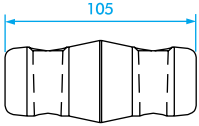

CCS6-652
Male coupler 600 half, hole M12.
BM-12 x 028-652. Bolt M12 x 028 bolt for CCS6-652

FITTINGS CCS6



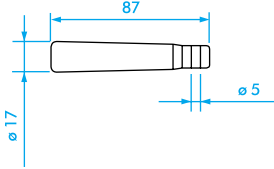

FITTINGS CCS7



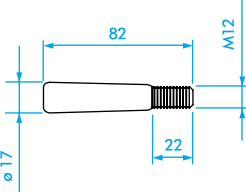

CCS7-700
Conical coupler

Weight = 0,310 kg

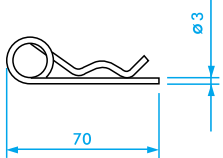

CCS7-703
Spigot
CCS7-703RF (stainless steel)

Weight = 0,115 kg
To be used with CCS7-705

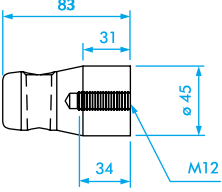

CCS7-704
Spigot with thread M12
CCS7-704RF (stainless steel)

Weight = 0,125 kg
To be used with selflocking nut M12

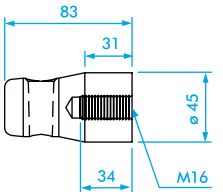

CCS7-705
Safety R-spring

Weight = 0,012 kg

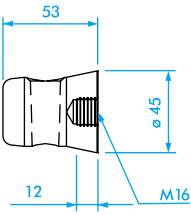

Z-CCS7-702/12
Offset half conical coupler

Weight = 0,265 kg
Offset 31 mm, thread M12

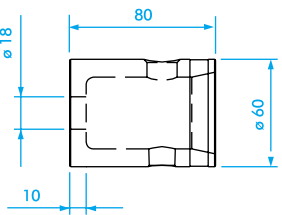

CCS7-702/16
Offset half conical coupler

Weight = 0,260 kg
Offset 31 mm, thread M16

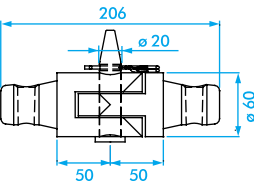

CCS7-750
Half conical coupler

Weight = 0,150 kg
Offset 0 mm, thread M16

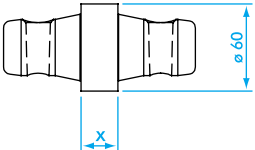

CCS7-751
Female conical coupler

Weight = 0,350 kg
With 18 mm hole for bolts M16

CCS7-H-0 CCS7-H-90
Hinge set
See part Technical Matters, Miscellaneous, for the use of hinges in different set-ups.

Weight = 1,240 kg

CCS7-S10 Through CCS7-S50
Spacers

Weight = 0,350-0,360 kg
x=10mm to 50 mm in steps of 10 mm

CORNERS



Photo: RSL, The Netherlands

The Prolyte truss series are completed with a broad range of standard corners, box corners and book corners. Combining corners with straight or curved trusses will give you the possibility to construct an endless variety of configurations in structures or grids.

Standard corners

The standard corner range provides 2 to 6-way corners at several angles, from 45 to 135 degrees.

In addition Prolyte manufactures a series of specially designed corners, such as the pyramid corner or swivel corners. For more information on these or on special, custom made corners, please contact Customer Service at Prolyte.

Box corners

The box corner system* is a revolutionary corner system invented by Prolyte.

A 6-way cube is combined with special constructed tubes by means of an internal screw thread and hexagon socket bolts. One Prolyte box corner can be converted into a 2 to 6 way corner by choice, by simply mounting the female or male receivers to the corner. The flexibility and fixed dimensions of the box corner makes it cost efficient investment.

Box corners are capable of taking 100% of the applied load in a vertical or horizontal direction, this makes the box corner is a full-fledged construction element, unlike traditional types of corners.

* The Box corner system is patented by Prolyte.

Book corners

The Prolyte book corner is designed as a flexible angle corner. Angles from 0 to 180 degrees can be made with just one corner. The attachments are bolted to the corner, using male or female receivers. The required angle is set with the additional fixation set. The book corner is not designed as load bearing element and therefore cannot be part of a structural component. Support the book corner on both sides of the hinge.



STANDARD CORNERS

Photo: Riegler, Messebau, Italy
Project: Introduction new porche



20 SERIE



30 SERIE



40 SERIE



S36V

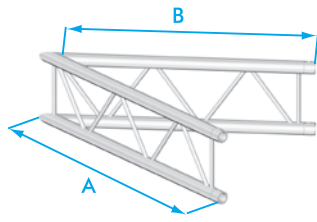


S52F

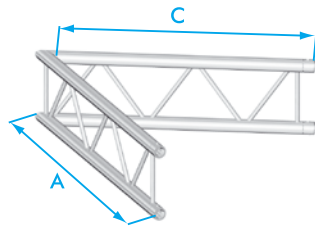


S100F

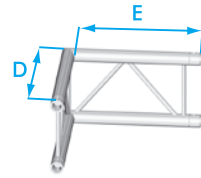
LADDER CORNERS E20 X/H30 H40



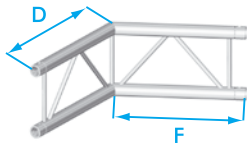
C001U - 45°



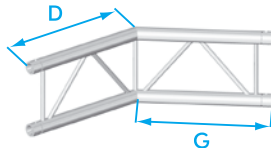
C002U - 60°



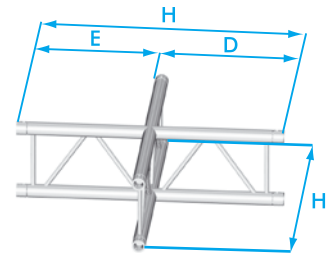
C003U - 90°



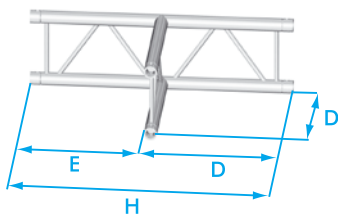
C004U - 120°



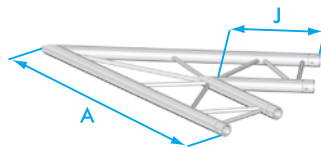
C005U - 135°



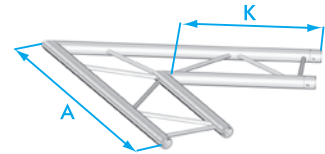
C016U



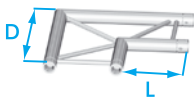
C017U



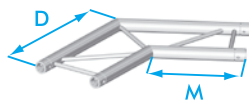
C001F - 45°



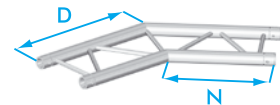
C0002F - 60°



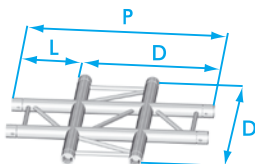
C003F - 90°



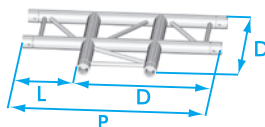
C004F - 120°



C005F - 135°



C016F



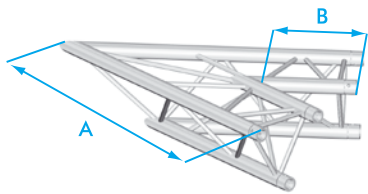
C017F

U = LADDER UP
F = LADDER FLAT

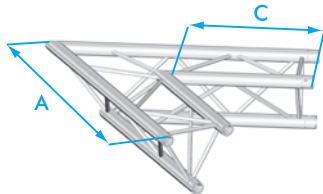
LADDER CORNERS

measurements in mm	A	B	C	D	E	F	G	H	J	K	L	M	N	P
E20L	800	722	743	400	368	381	387	768	264	415	178	272	308	578
X/H30L	1000	877	913	500	449	471	479	949	300	498	210	333	380	710
H40L	1200	1078	1112	600	549	572	579	1149	258	525	210	376	439	810

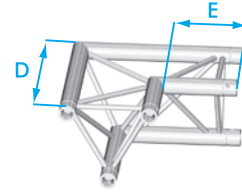
TRIANGULAR CORNERS E20 X/H30 H40



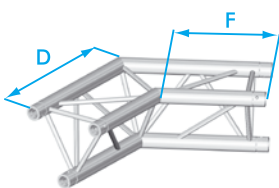
C001 - 45°



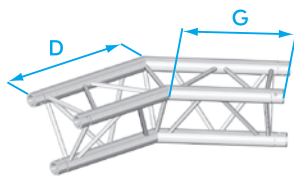
C002 - 60°



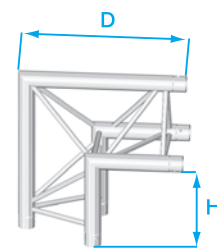
C003 - 90°



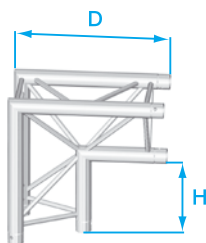
C004 - 120°



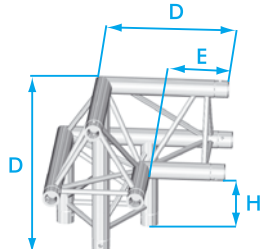
C005 - 135°



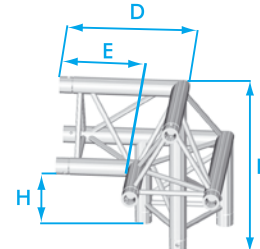
C006



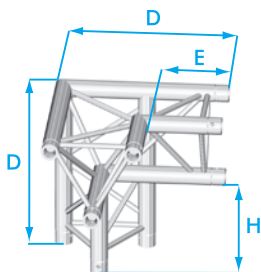
C007



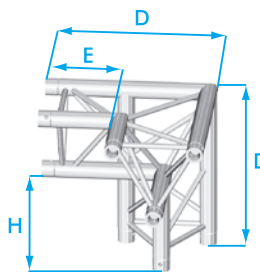
C010



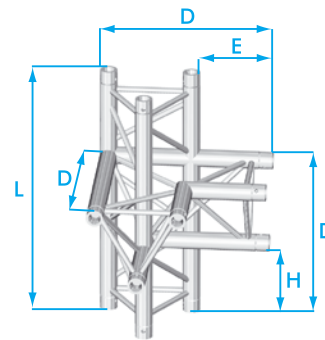
C011



C012



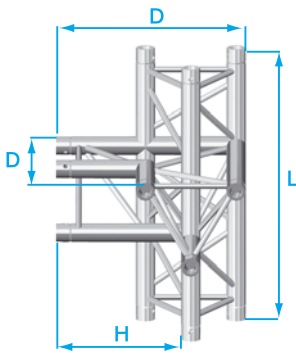
C013



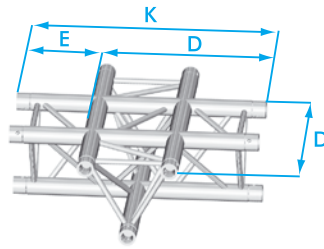
C014

TRIANGULAR CORNERS

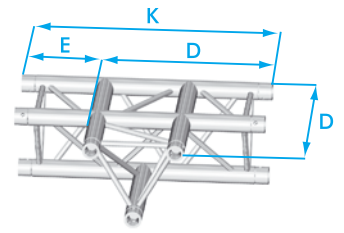
measurements in mm	A	B	C	D	E	F	G	H	K	L
E20D	800	264	415	400	178	272	308	203	578	603
X/H30D	1000	300	498	500	210	333	380	242	710	742
H40D	1200	258	525	600	210	376	439	255	810	855



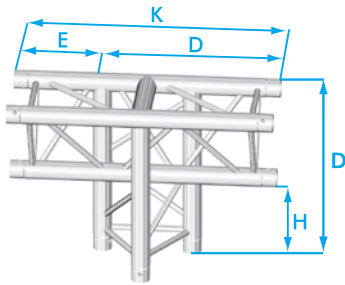
C015



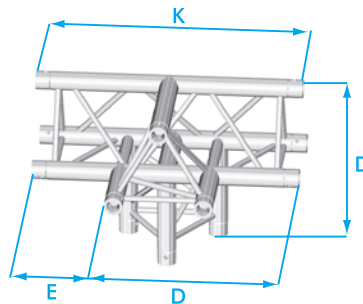
C016



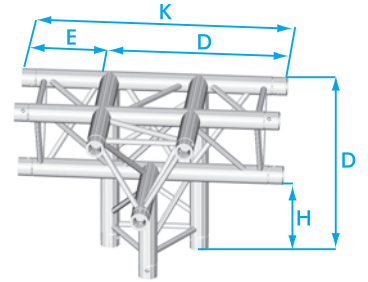
C017



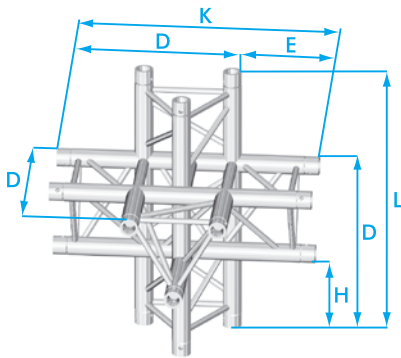
C018



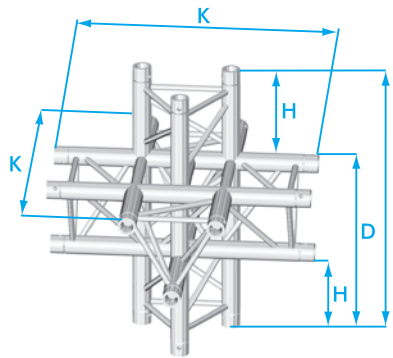
C019



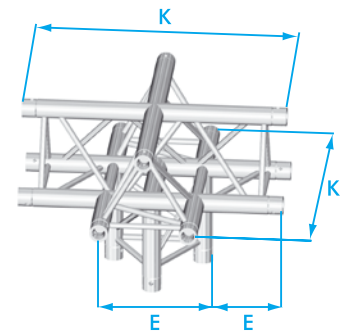
C020



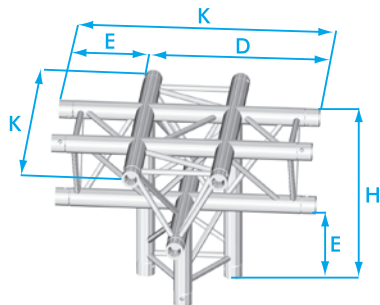
C021



C022



C023

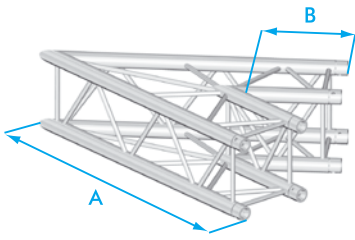


C024

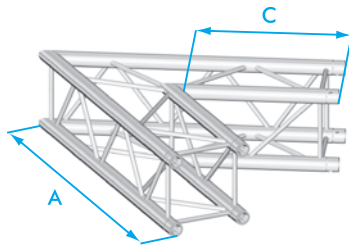
TRIANGULAR CORNERS

measurements in mm	A	B	C	D	E	F	G	H	K	L
E20D	800	264	415	400	178	272	308	203	578	603
X/H30D	1000	300	498	500	210	333	380	242	710	742
H40D	1200	258	525	600	210	376	439	255	810	855

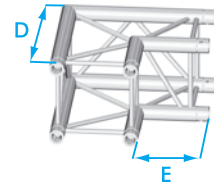
SQUARE CORNERS E20 X/H30 H40



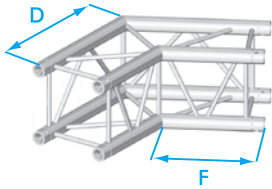
C001 - 45°



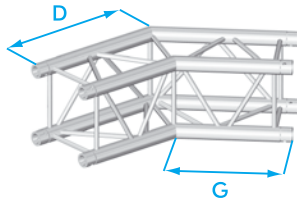
C002 - 60°



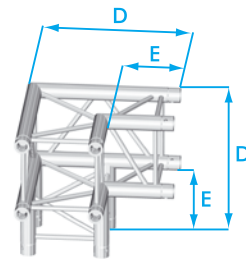
C003 - 90°



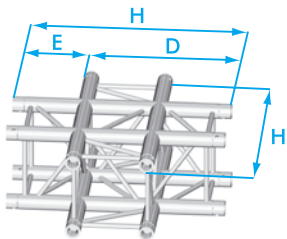
C004 - 120°



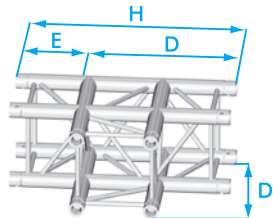
C005 - 135°



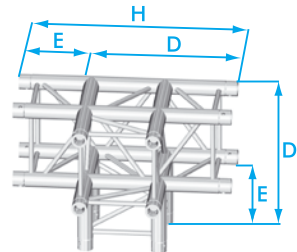
C012



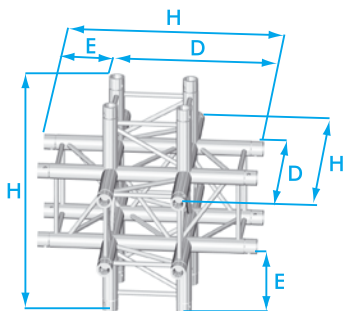
C016



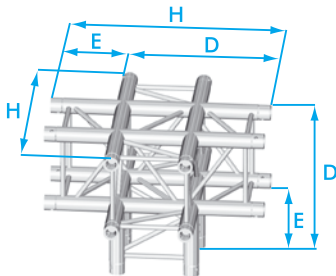
C017



C020



C022

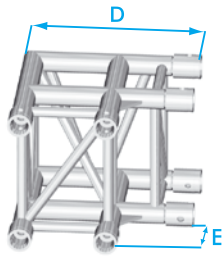


C024

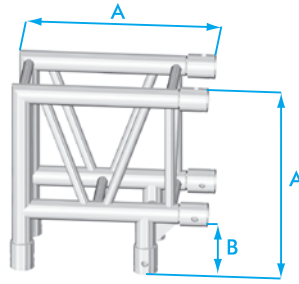
SQUARE CORNERS

measurements in mm	A	B	C	D	E	F	G	H
E20V	800	264	415	400	178	272	308	578
X/H30V	1000	300	498	500	210	333	380	710
H40V	1200	258	525	600	210	376	439	810

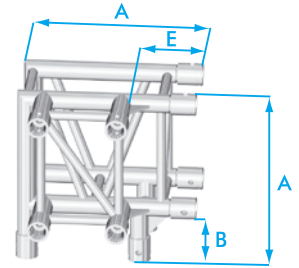
STANDARD CORNERS S36 SERIES



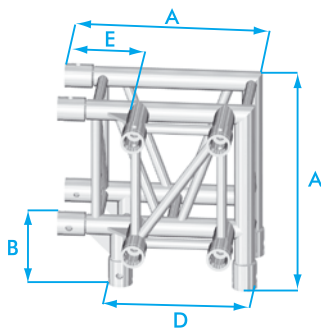
S36R - C003



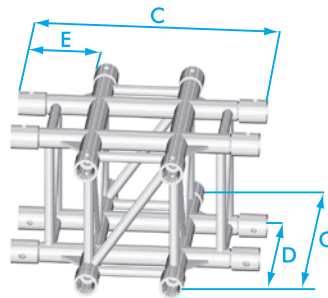
S36R - C007



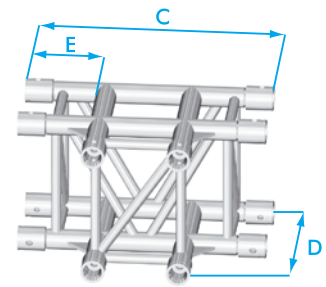
S36R - C012



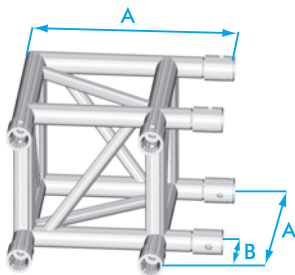
S36R - C013



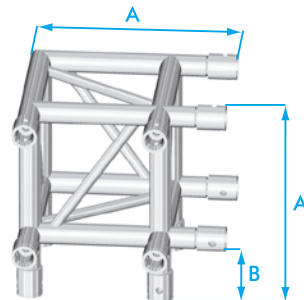
S36R - C016



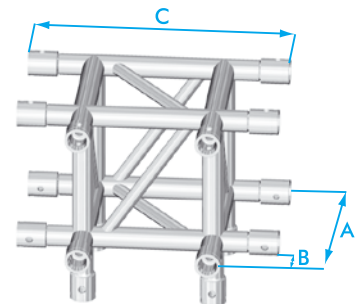
S36R - C017



S36V - C003



S36V - C012

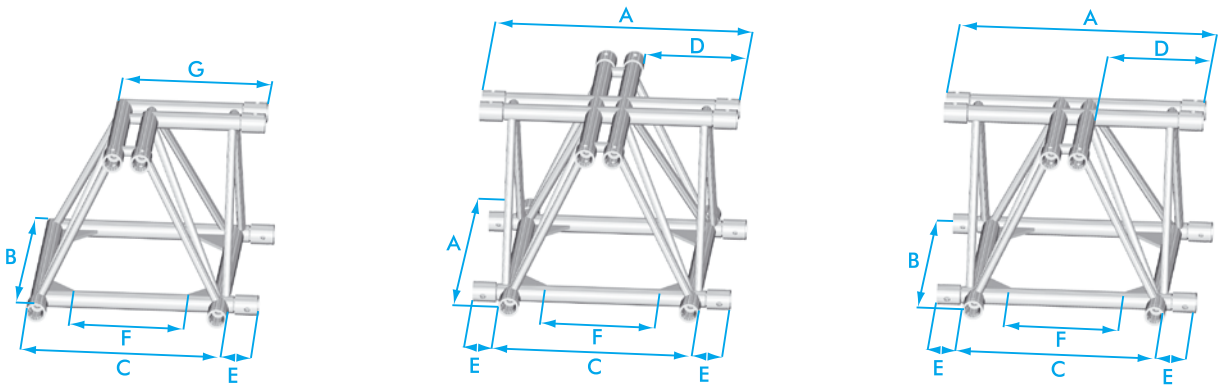


S36V - C017

STANDARD CORNERS S36 SERIES

measurements in mm	A	B	C	D	E
S36R	475	125	600	429	172
S36V	475	125	600	429	172

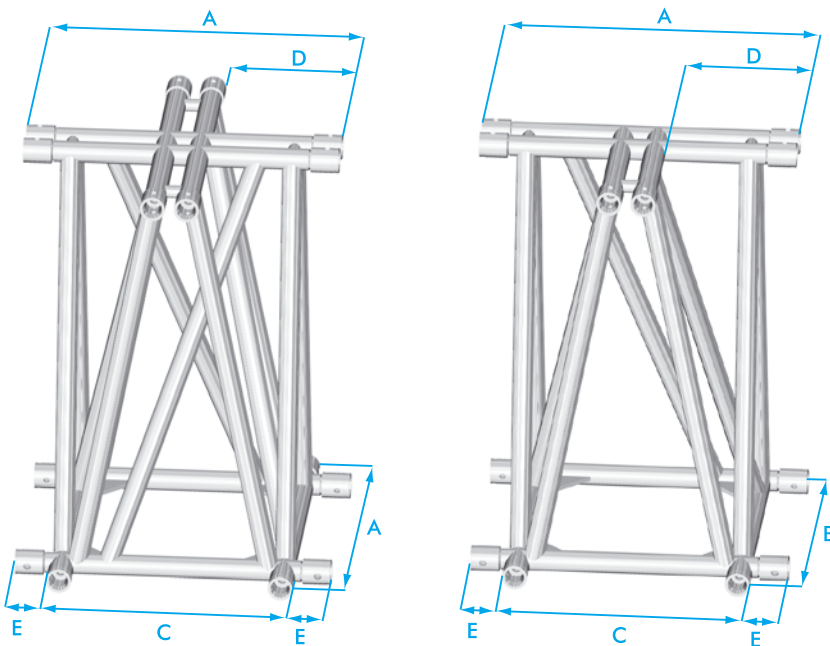
STANDARD CORNERS S52



STANDARD CORNERS S52F SERIES

measurement in mm	A	B	C	D	E	F
S52F	740	655	570	305	85	270

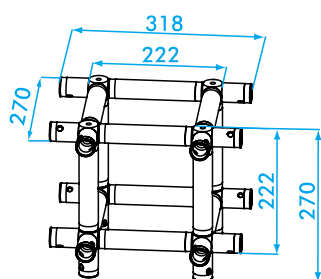
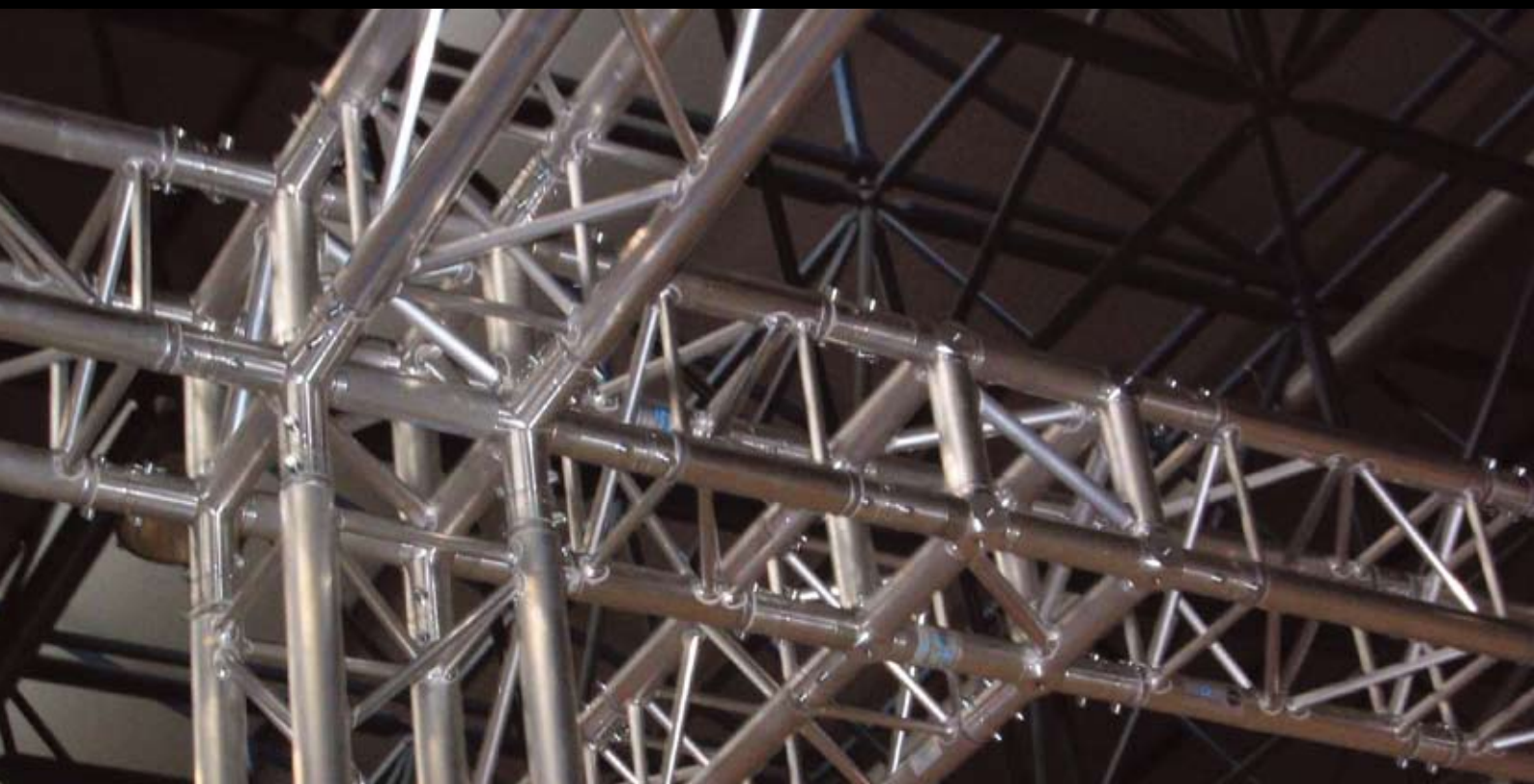
STANDARD CORNERS S100F



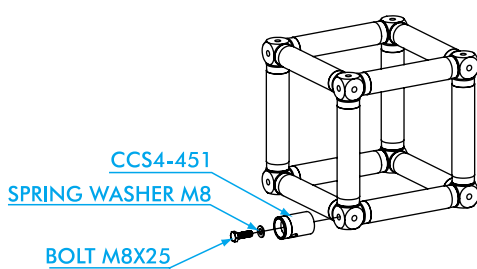
STANDARD CORNERS S100F SERIES

measurement in mm	A	B	C	D	E
S100F	740	655	570	305	85

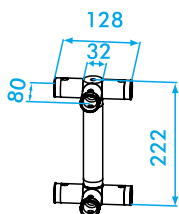
BOX CORNERS



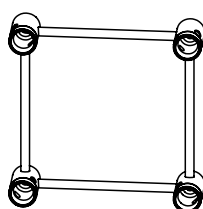
BOX-20V
Box corner for E20V truss. Measurements.



BOX-20V
Assembly.



BOX-20L
Ladder box corner for E20 truss. Measurements.



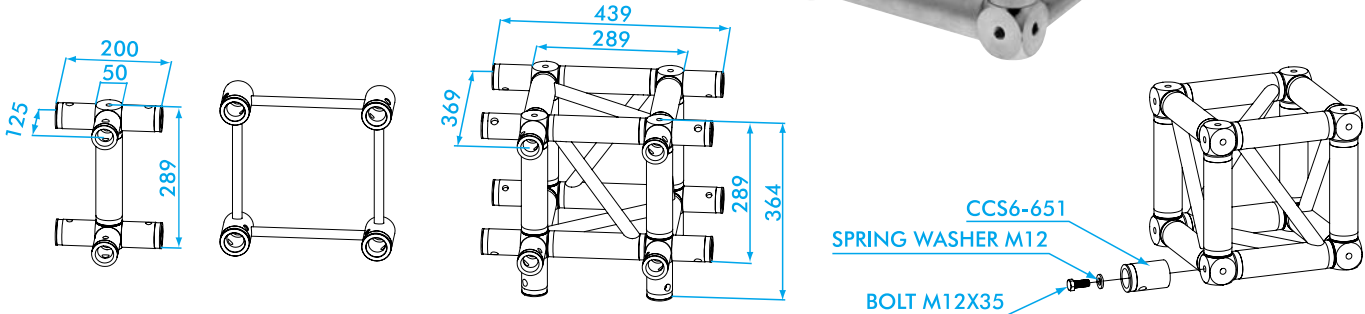
BOX-20V
Box-corner attachment, pre-assembled couplers.

TECHNICAL SPECIFICATIONS E20 BOX CORNERS

	0-WAY		2-WAY		3-WAY		4-WAY		5-WAY		6-WAY		COUPLER	BOLT	SPRING WASHER
	KG	LBS	KG	LBS	KG	LBS	KG	LBS	KG	LBS	KG	LBS			
BOX-20V	3,7	8,2	4,2	9,3	4,7	10,4	5,2	11,5	5,7	12,6	6,2	13,7	CCS4-451	M8x25	M8
BOX-20L	3,7	8,2	4,2	9,3	4,7	10,4	5,2	11,5	—	—	—	—	CCS4-451	M8x25	M8

1 inch = 25.4 mm | 1 m = 3.28 ft | 1 lbs = 0.453 kg | 1 daN = 10 N ~ 1 kg

BOX CORNER 30V



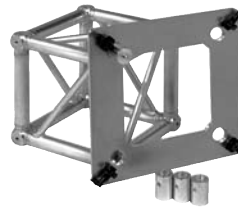
BOX-30L Ladder box corner for X•H30 truss. Measurements.
BOX-30V Boxcorner attachment, pre- assembled couplers.
BOX-30V. Box corner for X•H30V truss. Measurements.
BOX-30V. Assembly.

TECHNICAL SPECIFICATIONS 30V BOX CORNERS															
	0-WAY		2-WAY		3-WAY		4-WAY		5-WAY		6-WAY		COUPLER	BOLT	SPRING WASHER
	KG	LBS	KG	LBS	KG	LBS	KG	LBS	KG	LBS	KG	LBS			
BOX-30V	9,9	21,2	12,2	26,9	13,5	29,8	14,8	32,7	16,1	35,5	17,4	38,4	CCS6-652 CCS6-637	M12x35	M12

1 inch = 25.4 mm | 1m = 3.28 ft | 1 lbs = 0.453 kg | 1 daN = 10 N ~ 1 kg

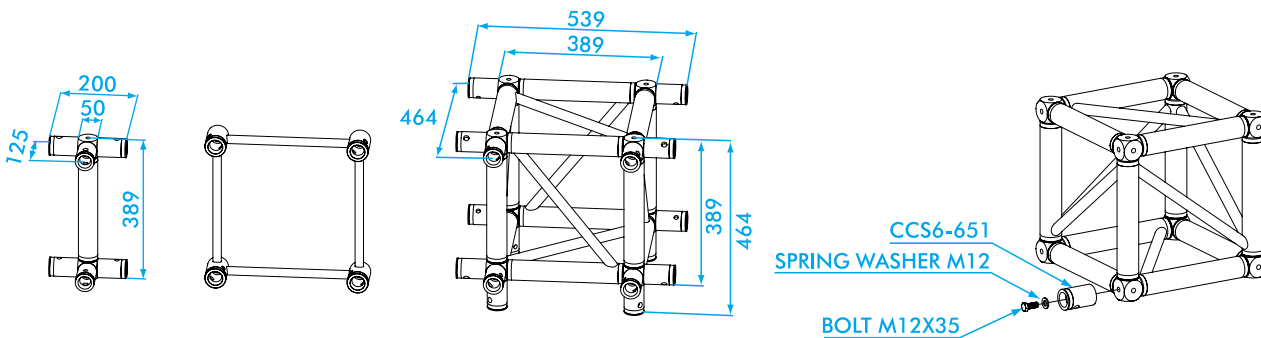


MOUNTING KIT BOX-30V
Kit for fixation and assembly
CCS6-651 to box 30V



MOUNTING KIT BOX-40V
Kit for fixation and assembly
CCS6-651 to box 40V

BOX CORNER 40V

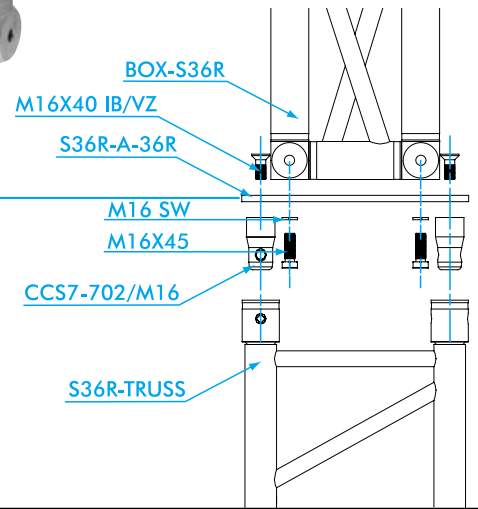


BOX-40L Ladder box corner for H40 truss. Measurements.
BOX-40V Boxcorner attachment, pre- assembled couplers.
BOX-40V Box corner for H40V truss. Measurements.
BOX-40V Assembly.

TECHNICAL SPECIFICATIONS 40V BOX CORNERS															
	0-WAY		2-WAY		3-WAY		4-WAY		5-WAY		6-WAY		COUPLER	BOLT	SPRING WASHER
	KG	LBS	KG	LBS	KG	LBS	KG	LBS	KG	LBS	KG	LBS			
BOX-40V	11,5	25,4	14,1	31,1	15,4	34,0	16,7	36,9	18,0	39,7	19,3	42,6	CCS6-651 CCS6-637	M12x35	M12

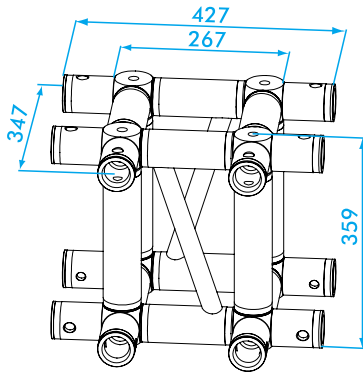
1 inch = 25.4 mm | 1m = 3.28 ft | 1 lbs = 0.453 kg | 1 daN = 10 N ~ 1 kg

BOX CORNERS S36

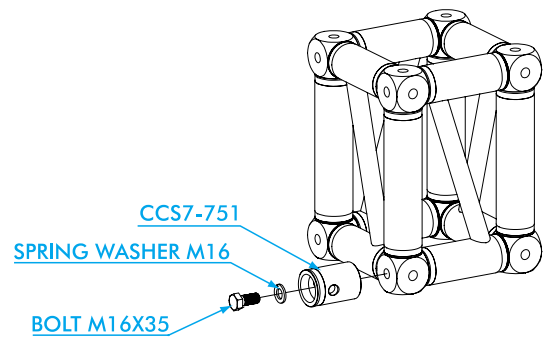


ADAPTER S36R

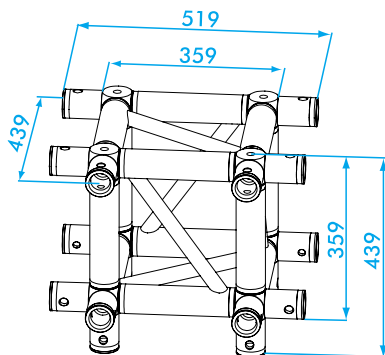
Also available for Symmetrical setup with female couplers or A-symmetrical set-up with female couplers. Drawing available on request or on www.prolyte.com



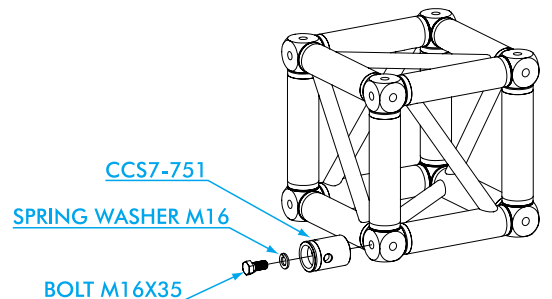
BOX-36R. Box corner for S36R truss.



BOX-36R. Assembly



BOX-36V. Box corner for S36V truss.



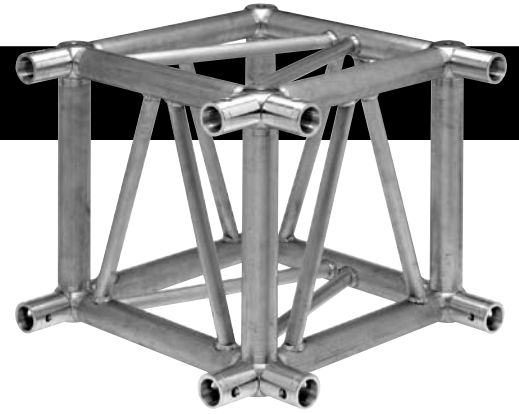
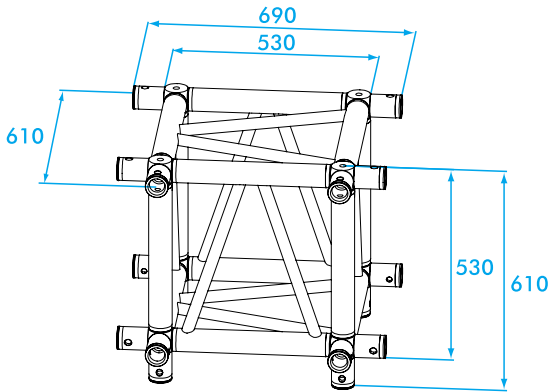
BOX-36V. Assembly

TECHNICAL SPECIFICATIONS S36 BOX CORNERS

	0-WAY		2-WAY		3-WAY		4-WAY		5-WAY		6-WAY		COUPLER	BOLT	SPRING WASHER
	KG	LBS	KG	LBS	KG	LBS	KG	LBS	KG	LBS	KG	LBS			
BOX-36R	15,9	35,1	17,7	39,1	19,5	43,0	21,2	46,8	23,0	50,8	24,8	54,7	CCS7-751	M16x35	M16
BOX-36V	21,0	46,4	22,8	50,3	24,5	54,1	26,3	58,1	28,1	62,0	29,9	66,0	CCS7-751	M16x35	M16

1 inch = 25.4 mm | 1m = 3.28 ft | 1 lbs = 0.453 kg | 1 daN = 10 N ~ 1 kg

BOX CORNER S52



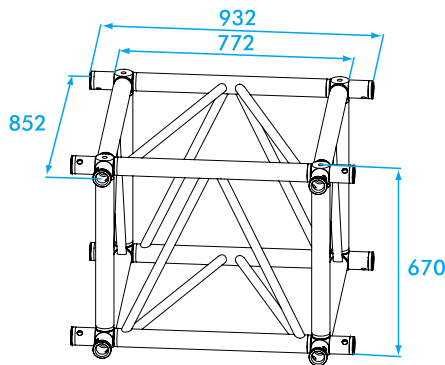
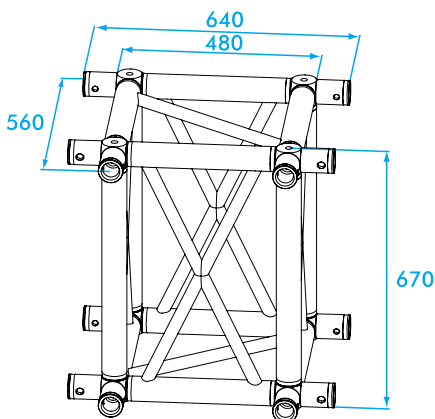
BOX-52V. Box corner for S52V/SV truss.

TECHNICAL SPECIFICATIONS S52 BOX CORNERS

	0-WAY		2-WAY		3-WAY		4-WAY		5-WAY		6-WAY		COUPLER	BOLT	SPRING WASHER
	KG	LBS	KG	LBS	KG	LBS	KG	LBS	KG	LBS	KG	LBS			
BOX-52V/SV	22,7	50,1	24,5	54,1	26,3	58,1	28,0	61,8	29,8	65,8	31,6	69,8	CCS7-751	M16x35	M16

1 inch = 25.4 mm | 1m = 3.28 ft | 1 lbs = 0.453 kg | 1 daN = 10 N ~ 1 kg

BOX CORNER S66



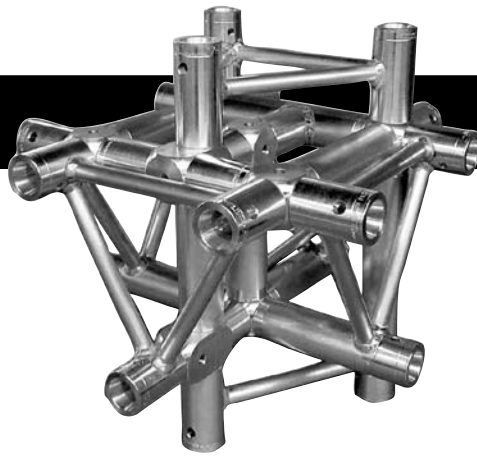
BOX-66R. Box corner for S66R truss.

BOX-66V. Box corner for S66V truss.

TECHNICAL SPECIFICATIONS S66 BOX CORNERS

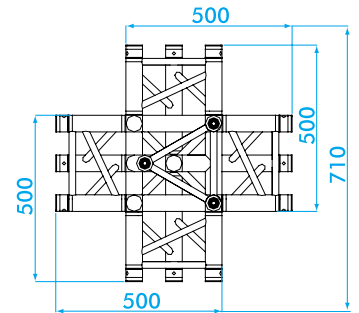
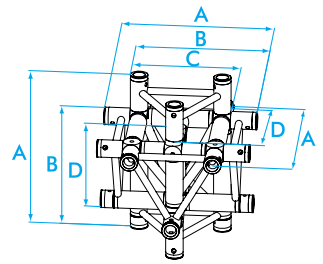
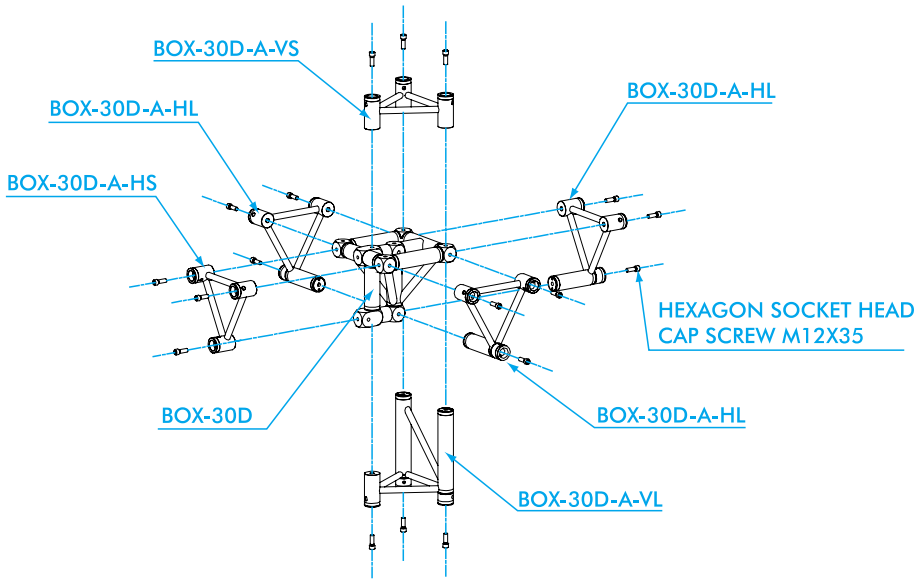
	0-WAY		2-WAY		3-WAY		4-WAY		5-WAY		6-WAY		COUPLER	BOLT	SPRING WASHER
	KG	LBS	KG	LBS	KG	LBS	KG	LBS	KG	LBS	KG	LBS			
BOX-66R	24,2	53,4	26	57,4	29,6	65,3	31,3	69,1	33,1	73,1	34,9	77	CCS7-751	M16x35	M16
BOX-66V	28,2	62,3	30	66,2	31,8	70,2	33,5	74	35,3	77,9	37,1	81,9	CCS7-751	M16x35	M16

1 inch = 25.4 mm | 1m = 3.28 ft | 1 lbs = 0.453 kg | 1 daN = 10 N ~ 1 kg

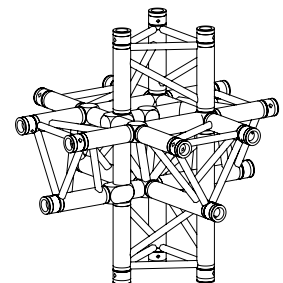
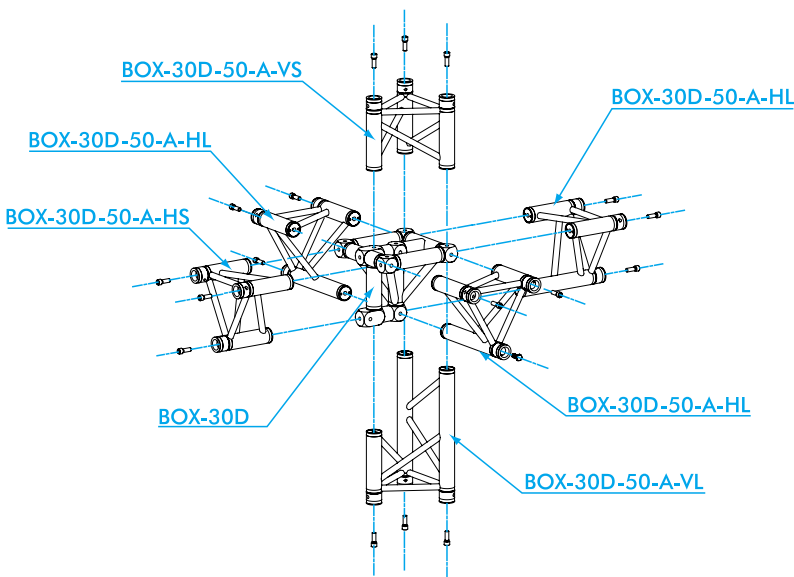


TRIANGULAR BOX CORNERS

TRIANGULAR BOX CORNERS				
measurements in mm	A	B	C	D
X/H 30	440	365	290	257



Standard parts

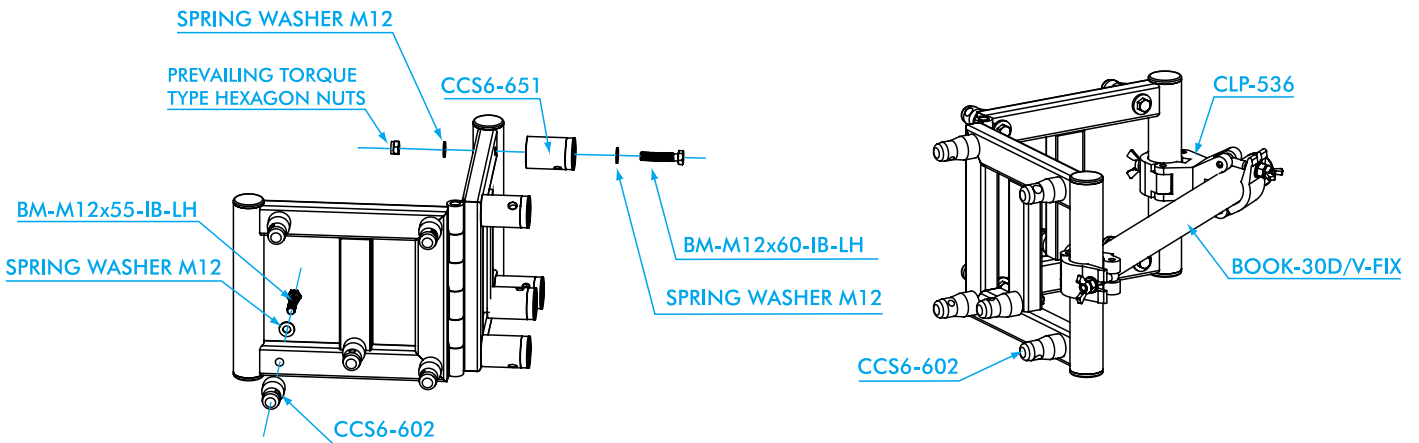


Elongated parts. Box corners can be used in combination with standard corners.

TECHNICAL SPECIFICATIONS 30D TRIANGULAR BOX CORNERS

	0-WAY		A-VS		A-HL		A-HS		A-VL		COUPLER	BOLT	SPRING WASHER
	KG	LBS	KG	LBS	KG	LBS	KG	LBS	KG	LBS			
BOX-30D	7,1	15,7	1,4	3,1	1,2	2,6	1,0	2,2	2,0	4,4	CCS6-651	M12x35	M12
BOX-30D/50cm	7,1	15,7	2,1	20,3	2,1	20,3	1,9	19,9	2,8	21,9	DIV.	M12x35	M12

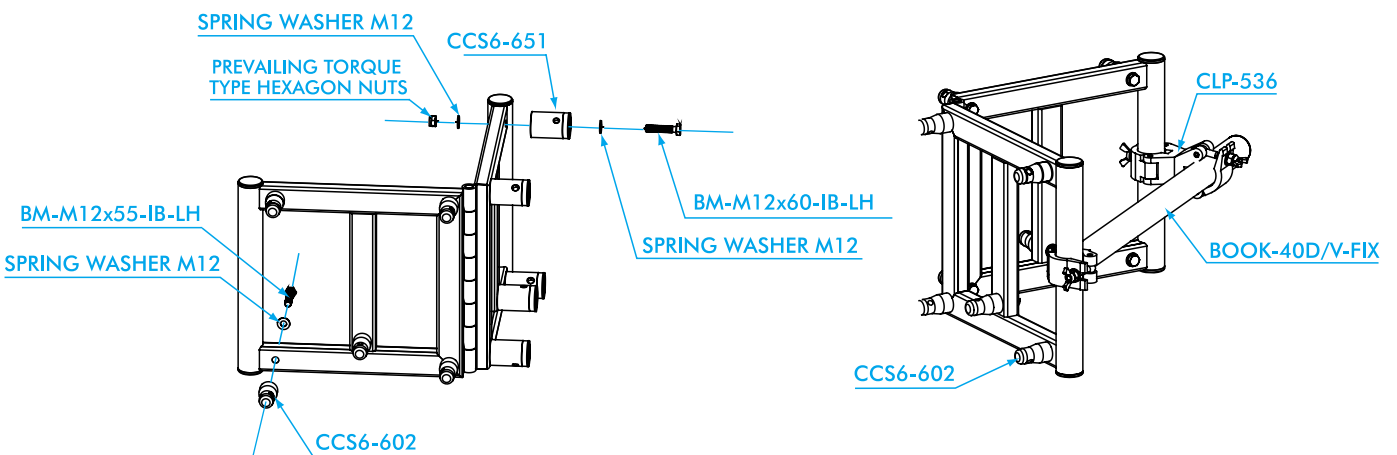
BOOK CORNER 30D/V



TECHNICAL SPECIFICATIONS BOOK CORNERS 30D/V

	KG	LBS	MALE COUPLER	BOLT	FEMALE COUPLER	BOLT	NUT	SPRING WASHER
BOOK-30D/V	12,0	26,5	CCS6-602	M12x55	CCS6-651	M12x60	M12	M12
1 inch = 25.4 mm 1 m = 3.28 ft 1 lbs = 0.453 kg 1 daN = 10 N ~ 1 kg								

BOOK CORNER 40D/V

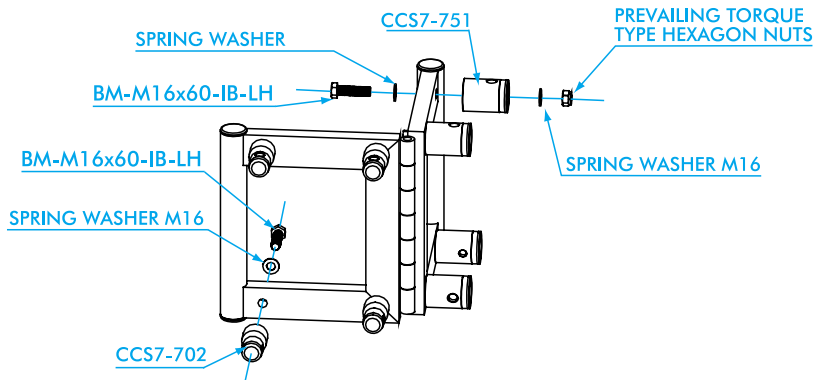
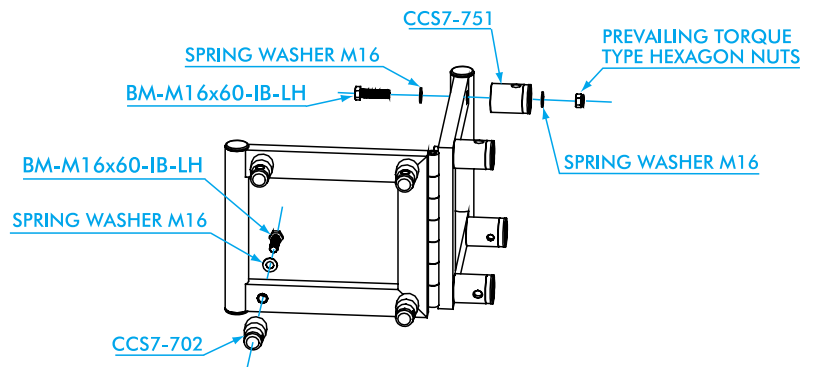


TECHNICAL SPECIFICATIONS BOOK CORNERS 40D/V

	KG	LBS	MALE COUPLER	BOLT	FEMALE COUPLER	BOLT	NUT	SPRING WASHER
BOOK-40D/V	15,5	34,2	CCS6-602	M12x55	CCS6-651	M12x60	M12	M12
1 inch = 25.4 mm 1 m = 3.28 ft 1 lbs = 0.453 kg 1 daN = 10 N ~ 1 kg								



BOOK CORNER 36R/V



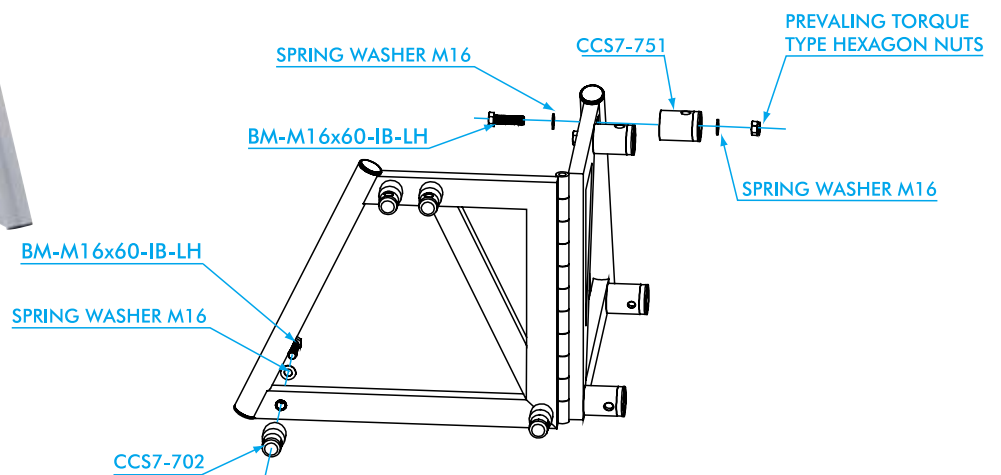
TECHNICAL SPECIFICATIONS BOOK CORNERS 36R/V

	KG	LBS	MALE COUPLER	BOLT	FEMALE COUPLER	BOLT	NUT	SPRING WASHER
BOOK-36R	16,2	35,8	CCS7-702	M16x60	CCS7-751	M16x60	M16	M16
BOOK-36V	17,2	38,0	CCS7-702	M16x60	CCS7-751	M16x60	M16	M16

1 inch = 25.4 mm | 1m = 3.28 ft | 1 lbs = 0.453 kg | 1 daN = 10 N ~ 1 kg



BOOK CORNER 52F



TECHNICAL SPECIFICATIONS BOOK CORNERS 52F AND 52S/V

	KG	LBS	MALE COUPLER	BOLT	FEMALE COUPLER	BOLT	NUT	SPRING WASHER
BOOK-52F	21,5	47,5	CCS7-702	M16x60	CCS7-751	M16x60	M16	M16
BOOK-52S/SV	20,7	45,7	CCS7-702	M16x60	CCS7-751	M16x60	M16	M16

1 inch = 25.4 mm | 1m = 3.28 ft | 1 lbs = 0.453 kg | 1 daN = 10 N ~ 1 kg