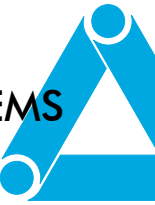


PROLYTE TRUSS SYSTEMS





© Prolyte Sales BV

Dedicated to all Prolyte users

Due to the growing diversity of our product range and the constant addition of new products, Prolyte feels it is more convenient for our users to present these products in separate brochures rather than in our previous all-encompassing catalogue. Doing so will also give Prolyte the opportunity to publish updates more frequently, which will guarantee you optimum and up-to-date information. Compiling new product information, gathering new technical information and updating it according to the latest insights and standards is a new challenge every time, but also a great pleasure.

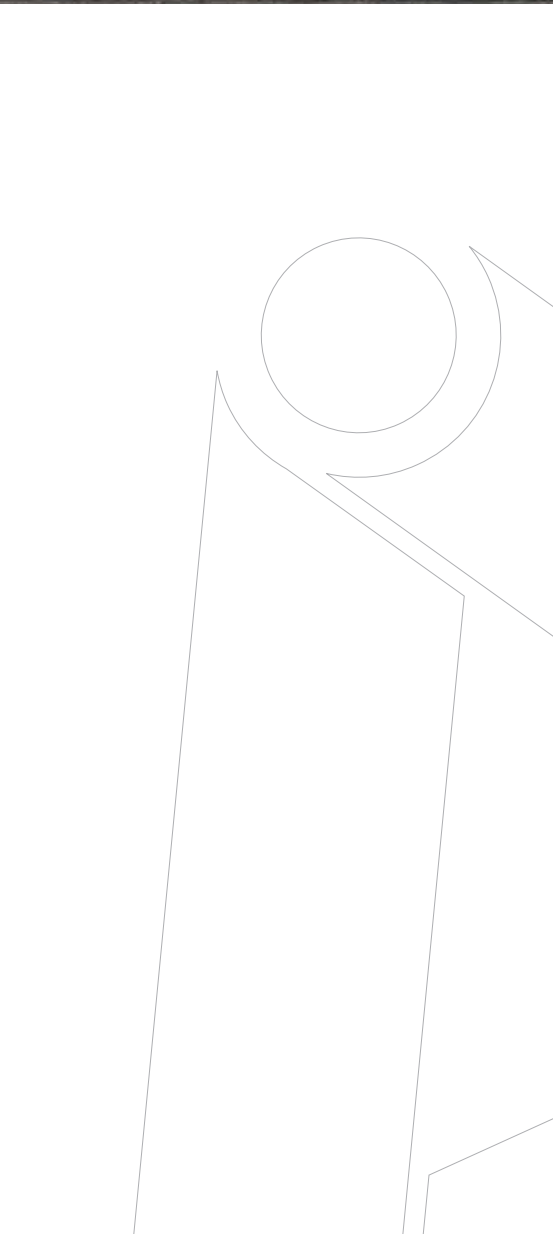
We hope, again, to provide you with the basic essentials we believe our products should meet, in-depth product information and user-friendly solutions. Product safety and safe working practices can only be achieved by offering complete product information and knowledge. Our starting point is the provision of a database which all Prolyte users can consult on a regular basis.

Our policy to deliver not only the best possible products but also to support you in the best possible way is an aim keenly felt and supported by the entire Prolyte team. We hope this updated and restructured information will go some way to fulfilling this aim. As ever, feedback on information or products is welcome. After all, listening to our users will help us to perform even better.

Extraction of aluminium

Aluminium is the most abundant metal on Earth. But despite this it is expensive, largely because of the amount of power consumed in the extraction process. Aluminium ore is called bauxite. Bauxite is purified to yield a white powder, aluminium oxide, from which aluminium can be extracted. Extraction is done by electrolysis, but first the aluminium oxide must be made molten so that electricity can pass through it. Aluminium oxide has a very high melting point (over 2000°C) and it would be expensive to melt it. Instead, it is therefore dissolved in molten cryolite, an aluminium compound with a lower melting point than aluminium oxide.

Prolyte Products. Performance in Aluminium.



CONTENTS



Le Creuset GmbH, Germany

DECORATIVE TRUSS

E20 SERIES

7



Metro, New Zealand

MULTIPURPOSE TRUSS

X30 SERIES, H30 SERIES AND H40 SERIES

11



Italstage, Italy

HEAVY DUTY TRUSS

S36 SERIES, S52 SERIES, S66 SERIES,
S100 SERIES, B100 SERIES AND
MAMMOTH TRUSS

25



AED Rent, Belgium

CIRCULAR TRUSS

45



Eventstructure, UK

CANTILEVER LOAD TABLES

51

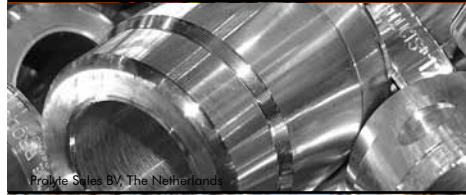


RSL, The Netherlands

CORNERS

Standard corners, box corners,
triangular box corners and book corners

55



Prolyte Sales BV, The Netherlands

FITTINGS

CCS4, CCS6 AND CCS7

71



Flashlight, The Netherlands

ACCESSORIES

Clamps, followspot chair, exhibition products
and rigging hardware

77



Prolyte Sales, The Netherlands

TOWERS

Rigging towers, MPT tower, ST tower
and CT tower, outdoor advertisement,
LED screen, Video screen

89



Prolyte Sales, The Netherlands

BARRIERS

109

INTRODUCTION

Providing the complete range

Offering our customers a complete range of trussing suitable for several types of applications and solutions is the main philosophy behind our product range.

Prolyte therefore has a broad range of trusses, from small, aesthetic trusses for shop fitting or exhibition use to large and robust truss types for more rugged installations or outdoor events. Prolyte is able to recommend a suitable truss type for each job. All Prolyte trusses are based on the same design principles: keep it simple, keep it standard, make life easier, be flexible and, last but not least, safety is paramount.

Economic investment

Investing in Prolyte trusses is a sound investment for the future. Prolyte systems are designed for growth.

Starting with several pieces of truss you can expand your stock to ground supports, towers or even roof systems, still based on your first set of trusses.

Furthermore, Prolyte is able to give you thoroughly professional advice and support based on extensive insight

into your market, practical experience and customer feedback. Investing in truss systems that are most suited to your market demands and company's goals is as important as investing in solid and safe material. Prolyte trusses are renowned for their high quality and reliability.

Safety first

When it comes to working with rigging or trussing materials, safe working practice and a comprehensive knowledge of materials are vital. Prolyte designs trusses that not only have a proven track record but are also based on the workmanship and experience of many technicians worldwide.

Their feedback, ideas and requirements are incorporated into the design of our trusses.

Providing you with current and accurate data on loading possibilities and material specifications is another step towards enhancing safe working practice. Your safety depends on the correct use and application of our trusses.

Prolyte therefore provides you with as much knowledge and data as possible. Why not attend one of our free seminars?

Definition

A truss as used in the entertainment sector is a modular, spatial lattice structure, predominantly made of welded aluminium tubes. It is designed to build 2D or 3D structures and to support loads such as set props, lighting or sound equipment.

Application

The use of trusses in the entertainment sector can be divided into two main categories:

- A truss system used as a construction element
- A truss construction used as lifting equipment

A truss system used as a construction element – that is, as a supporting structure for an exhibition stand or wall-mounted billboard frame – is, in most European countries, subject to local building codes and must be calculated in compliance with applicable standards such as DIN 4113, BS 8118 and Eurocode 9.

Prolyte trusses are calculated in compliance with DIN 4113 and Eurocode 9 standards. In accordance with regulations for building as compiled by DIBt, the German institute for building technology, trusses must bear the U-sign.

The U-sign is a part of European CE marking that applies to building materials only and constitutes a declaration on the part of the manufacturer that trusses and the materials from which they are made all meet the applicable requirements.

Trusses can also be used as a load-bearing element in combination with a lifting machine such as a winch or a hoist. This application differs from the first because, in most cases, it means that loads will be suspended above individuals or a broader public. Increased safety measures may therefore be needed.

Furthermore, trusses as used in the entertainment sector are subject to wear and tear through repetitive use and handling. Trusses are subject to the CWA 15902-2 which state that therefore an additional safety factor of 1,2 is required.

Truss structures are mainly used in the events market, which can be defined as, but not restricted to, all activities for leisure and sports, arts and cultural performances, amusement, or the presentation of products.

Examples of entertainment are:

- Product presentations
- Theatre shows, musicals and opera
- Concerts, festivals and fairgrounds
- Exhibitions and trade shows
- Celebrations and parties
- Conventions, demonstration meetings

Would you like to know more?

Please visit www.prolyte.com for more technical information on Prolyte truss systems, manuals and loading tables.

We provide more in-depth technical knowledge on roof and stage structures in the Prolyte Black Book "Technical Matters" (technical background information).

USE

AI-17	Health and safety requirements -lifting equipment / Netherlands
BGV C1 / GUV 6,15	Staging and Production Facilities for the Entertainment Industry / Germany
BS 7906-2	Code of practice for use of aluminium and steel trusses and towers / England
LOLER	Safe use of lifting equipment, lifting operations and lifting equipment regulations / England
NPR 8020-10	Entertainment-rigging-design factors of safety / Netherlands
TISE	The institution of Structural Engineers, Temporary Demountable structures, guidance on use, procurement and design / England
VPLT SR 1.0	Code of practice for event technology- Provision and Use of Truss Systems / Germany

MANUFACTURING

ANSI E1.21	Temporary ground-supported overhead structures used to cover the stage and support equipment in the production of outdoor events
ANSI E1.2-2006	Entertainment Technology: Design, Manufacture and Use of Aluminium Trusses and Towers
CWA 15902-2	Lifting and Load-bearing Equipment for Stages and other Production Areas within the Entertainment Industry - Part 2: Specifications for design, manufacture and for use of aluminium and steel trusses and towers
BS 7905-2	Specification for design and manufacture of aluminium and steel trusses and towers
BS 8118	Structural use of Aluminium part 1 code of practice for design
DIN 1055 (all parts)	Design loads on buildings - all parts
DIN 18000-1	Steel structures; design and construction
DIN 4112	Temporary structures, fairground amusements, directives for dimensioning and construction
DIN 4113-All parts	Aluminium constructions under predominantly static loading; static analysis and structural design
EN 10002-1	Metallic materials – Tensile testing – Part 1: Method of testing at ambient temperature
EN 10067:1997	Hot rolled bulb flats, Dimensions and tolerances on shape, dimensions and mass
EN 13155	Cranes-safety-non-fixed load lifting attachments
EN 1990	Eurocode 0 Basis of structural design
EN 1991 all parts	Eurocode 1 Actions on structures
EN 1999 all parts	Eurocode 9 design of Aluminium structures
EN 30042:1994	Arc welded joints in aluminium and its weldable alloys - Guidance on quality levels for imperfections.
EN ISO 3834-1 & 3	Quality requirements for welding - Fusion welding of metallic materials – Part 1: Guidelines for selection and use Part 3: Standard quality requirements
EN 292-1	Safety of machinery - Basic concepts, general principles for design – Part 1: Basic terminology, methodology
EN 292-2	Safety of machinery - Basic concepts, general principles for design – Part 2: Technical principles and specifications
EN 754 (all parts)	Aluminium and aluminium alloys - Cold drawn rod/bar and tube
EN 755 (all parts)	Aluminium and aluminium alloys - Extruded rod/bar, tube and profiles
EN 515:1993	Aluminium and aluminium alloys - Wrought products - Temper designations
EN 573 (all parts)	Aluminium and aluminium alloys - Chemical composition and form of wrought products
EN 10204:2004	Metallic products - Types of inspection documents
PREN 1090-3	Execution of steel and aluminium structures-part 3 technical rules for execution of aluminium structures

DO

- Clean, check and maintain your trusses on a regular basis, as this will improve ease of assembly
- Throw away damaged or deformed trusses, spigot pins or couplers
- Make a structural calculation for each construction you build
- Store and transport your trusses on proper dollies
- Use copper hammers for assembling, as this will reduce damage to the truss and pins
- Attach loads in node points
- Check how loads are attached to the truss before lifting

DON'T

- Mix H and X version trusses in one construction
- Mix trusses of multiple suppliers in one construction
- Exceed the maximum loading of single spans as specified in the loading tables
- Exceed the given structural data of trusses
- Drill holes in truss tubes
- Use damaged trusses, couplers or spigot pins
- Climb on trusses while attaching yourself to a truss; most trusses are not designed to hold loads resulting from a free fall
- Attach loads to the truss diagonals

DECORATIVE TRUSS



Photo: Le Creuset GmbH, Germany

System characteristics

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

System applications

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

Coupling system

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



PROLYTE E20D / E20V TRUSS

Photo : Le Creuset GMBH, Germany
Project : Messe Leipzig

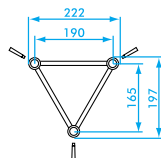
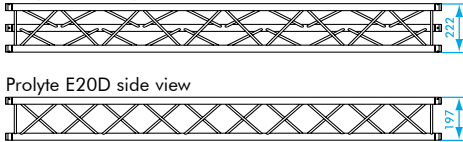


The E20 truss is constructed of main tubes of 32 x 1,5 mm and diagonals of 10 x 1,0 mm, and uses the CCS4 coupling system. Prolyte supplies a variety of E20 truss elements that

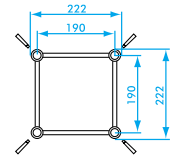
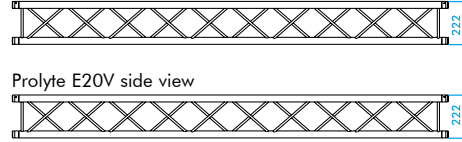
provide maximum flexibility, like standard or custom-made lengths, circles and arches, and several types of corners. Prolyte can deliver custom-made pieces on request.



Prolyte E20D top view



Prolyte E20V top view



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PROLYTE E20D / E20V TRUSS

PROLYTE E20D - ALLOWABLE LOADING																
SPAN		UNIFORMLY DISTRIBUTED LOAD		DEFLECTION		MAXIMUM ALLOWABLE POINT LOADS										SPAN
						CENTRE POINT LOAD		DEFLECTION		SINGLE LOAD THIRD POINTS LOAD PER POINT		SINGLE LOAD FOURTH POINTS LOAD PER POINT		SINGLE LOAD FIFTH POINTS LOAD PER POINT		
m	ft	kg/m	lbs/ft	mm	inch	kg	lbs	mm	inch	kg	lbs	kg	lbs	kg	lbs	total weight
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	1,6
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	3,2
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	4,8
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	6,4
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	8,0
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	9,6
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	11,2
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	12,8
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	14,4
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	16,0
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	17,6
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	19,2

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



Mark approval certificate No. 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	I _y	224,7	446,7	cm ⁴
Moment of Inertia Z-axis	I _z	223,4	446,7	cm ⁴
Allowable bending moment Y-axis	M _y	1,14	2,62	kNm
Allowable bending moment Z-axis	M _z	1,31	2,62	kNm
Allowable shear force Z-axis	Q _z /V _z	1,67	1,92	kN
Allowable shear force Y-axis	Q _y /V _y	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 E20V TRUSS

PROLYTE E20V - ALLOWABLE LOADING																
SPAN		UNIFORMLY DISTRIBUTED LOAD		DEFLECTION		MAXIMUM ALLOWABLE POINT LOADS										SPAN
		UDL				CPL		DEFLECTION		TPL		QPL		FPL		
m	ft	kg/m	lbs/ft	mm	inch	kg	lbs	mm	inch	kg	lbs	kg	lbs	kg	lbs	total weight
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	2,1
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	4,2
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	6,3
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	8,4
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	10,5
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	12,6
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	14,7
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	16,8
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	18,9
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	21,0
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	23,1
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	25,2

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



Mark approval certificate
No. 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 consists of the X&H30 series and the H40 series. The X&H30 truss is available in ladder, triangular and square types, and the H40 truss is available in ladder, 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 selfweight. Assembly is foolproof due to the continuous webbing of the diagonals.

The X and H versions are distinguished by their different wall thickness. All X trusses have main chords of 2 mm thick; all H trusses have main chords of 3 mm thick. Although the two series are almost identical in appearance, their technical specifications and load capacity differ. The thicker walls of the H trusses makes them less vulnerable to transport-related damage and extends their durability. In general, X trusses are more suited for permanent or semi-permanent installations, whereas H trusses are much used in the rental market or for moving grids.

System applications

The X&H30 series truss 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 and so on.

Their strength in relation to their relatively small dimensions make them 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 like moving lighting rigs in discotheques, stage scenery elements or touring exhibition stands.

Coupling system

The Prolyte Multi-Purpose truss consisting of the X&H30 series and the H40 series uses the CCS6 conical coupling system. 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



The X30 truss is constructed of main tubes of 51 x 2 mm and diagonals of 16 x 2 mm, and uses the CCS6 coupling system. Prolyte supplies a variety of X30 truss elements that provide

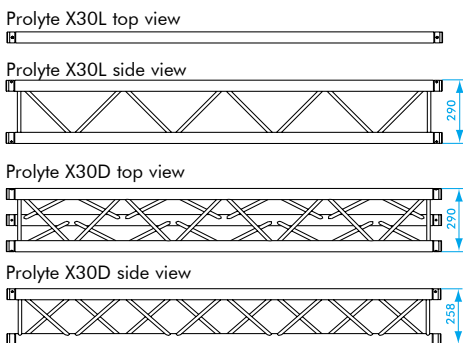
maximum flexibility, like standard or custom-made lengths, circles and arches and several types of corners. Prolyte can deliver custom-made pieces on request.



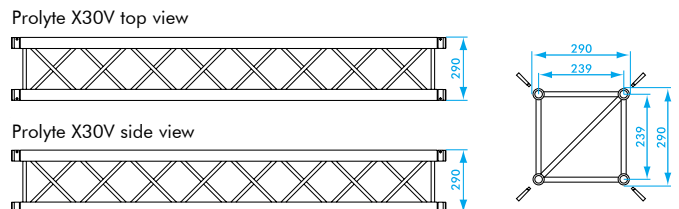
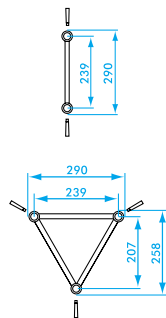
X coupler
1 ring

H coupler
2 rings

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



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©PROLYTE SALES BV

PROLYTE X30D - ALLOWABLE LOADING

SPAN		UNIFORMLY DISTRIBUTED LOAD		DEFLECTION		CENTRE POINT LOAD		DEFLECTION		SINGLE LOAD THIRD POINTS		SINGLE LOAD FOURTH POINTS		SINGLE LOAD FIFTH POINTS		SPAN
		UDL				CPL				TPL		QPL		FPL		
m	ft	kg/m	lbs/ft	mm	inch	kg	lbs	mm	inch	kg	lbs	kg	lbs	kg	lbs	total weight
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	3,8
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	7,6
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	11,4
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	15,2
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	19,0
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	22,8
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	26,6
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	30,4
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	34,2
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	38,0
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	41,8
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	45,6
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	49,4
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	53,2
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	57,0
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	60,8

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

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



Mark approval certificate No. 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 X30V TRUSS

PROLYTE X30V - ALLOWABLE LOADING																
SPAN		UNIFORMLY DISTRIBUTED LOAD		DEFLECTION		MAXIMUM ALLOWABLE POINT LOADS										SPAN
						CENTRE POINT LOAD		DEFLECTION		SINGLE LOAD THIRD POINTS LOAD PER POINT		SINGLE LOAD FOURTH POINTS LOAD PER POINT		SINGLE LOAD FIFTH POINTS LOAD PER POINT		
m	ft	kg/m	lbs/ft	mm	inch	kg	lbs	mm	inch	kg	lbs	kg	lbs	kg	lbs	total weight
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	5,1
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	10,2
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	15,3
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	20,4
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	25,5
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	30,6
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	35,7
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	40,8
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	45,9
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	51,0
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	56,1
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	61,2
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	66,3
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	71,4
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	76,5
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	81,6

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

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



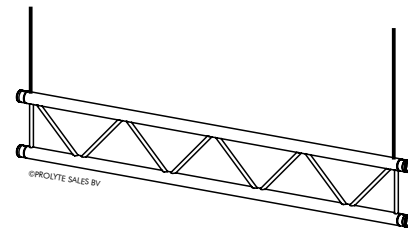
Mark approval certificate No. 2258/04
 Test report No. 2257/04
 TÜV certification only valid for loading table above.

PROLYTE X30L TRUSS

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

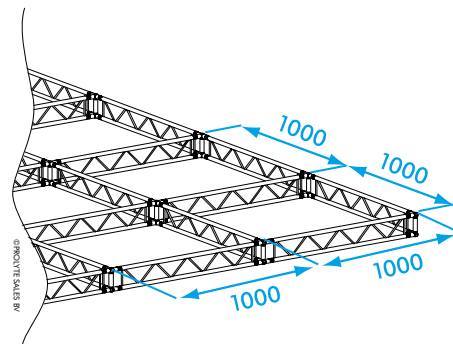


Spans must be supported at each end.
Loads must be suspended from bottom chord only.

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

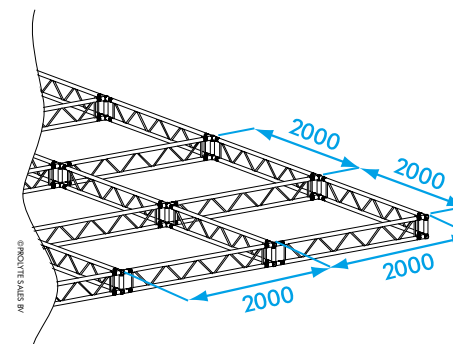


Spans must be supported at each end.
Loads must be suspended from bottom chord only.

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

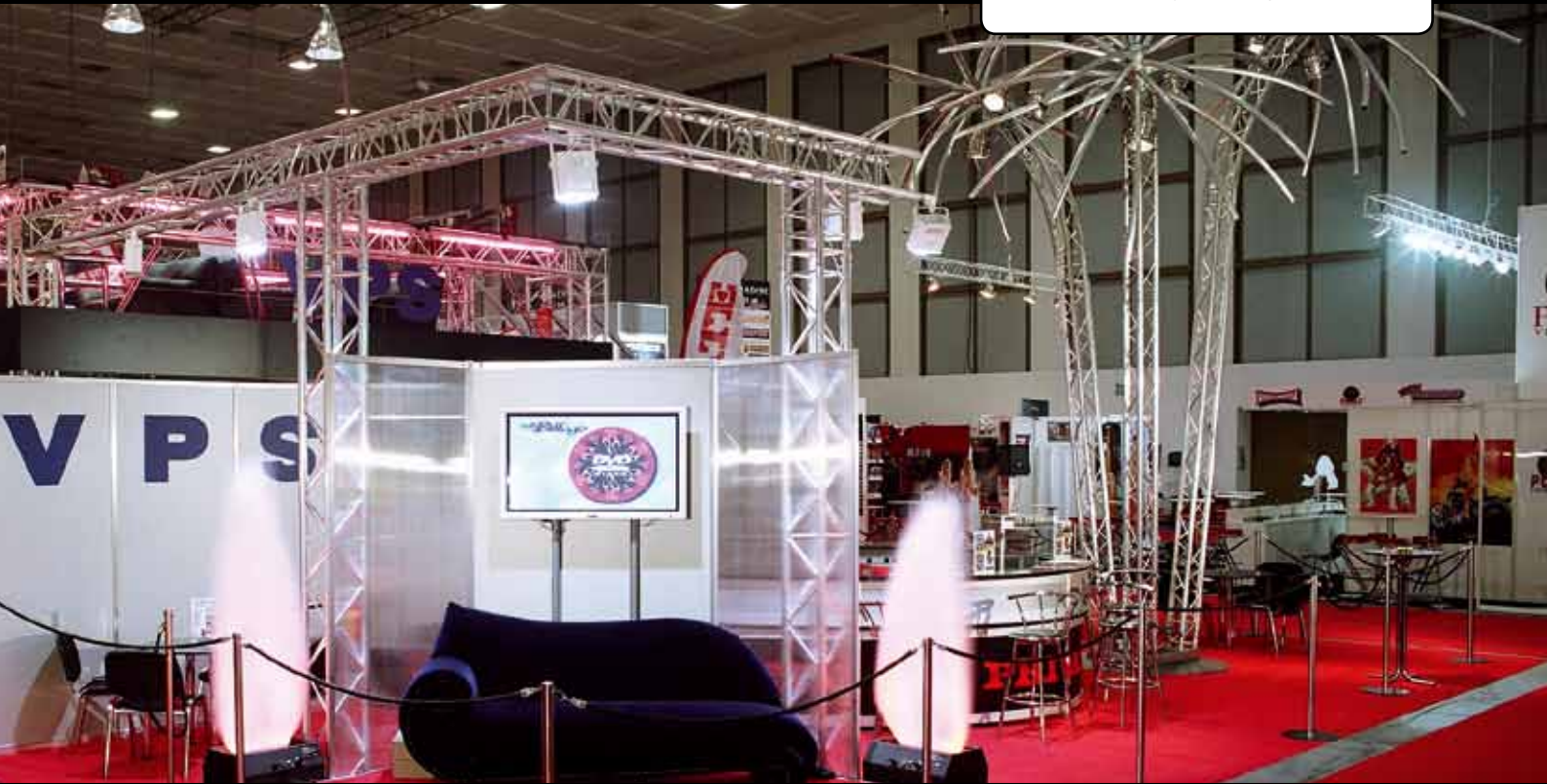
1 inch = 25,4 mm | 1m = 3.28 ft | 1 lbs = 0,453 kg



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

PROLYTE H30L / H30D / H30V TRUSS

Photo : Creativ-Design, Germany



The H30 truss is constructed of main tubes of 48,3 x 3 mm and diagonals of 16 x 2 mm, and uses 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.



X coupler
1 ring

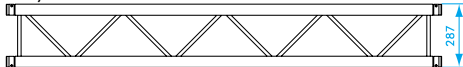
H coupler
2 rings

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

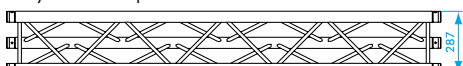


Prolyte H30L top view

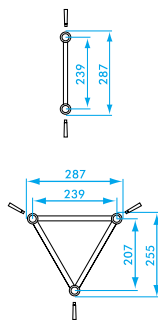
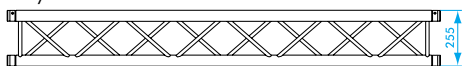
Prolyte H30L side view



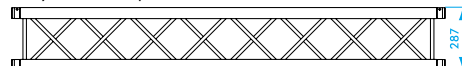
Prolyte H30D top view



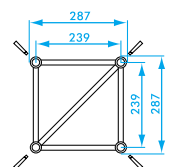
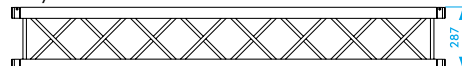
Prolyte H30D side view



Prolyte H30V top view



Prolyte H30V side view



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PROLYTE H30L / H30D / H30V TRUSS

PROLYTE H30D - ALLOWABLE LOADING

SPAN		UNIFORMLY DISTRIBUTED LOAD		DEFLECTION		MAXIMUM ALLOWABLE POINT LOADS										SPAN
						CENTRE POINT LOAD		DEFLECTION		SINGLE LOAD THIRD POINTS LOAD PER POINT		SINGLE LOAD FOURTH POINTS LOAD PER POINT		SINGLE LOAD FIFTH POINTS LOAD PER POINT		
m	ft	kg/m	lbs/ft	mm	inch	kg	lbs	mm	inch	kg	lbs	kg	lbs	kg	lbs	total weight
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	5,0
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	10,0
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	15,0
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	20,0
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	25,0
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	30,0
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	35,0
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	40,0
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	45,0
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	50,0
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	55,0
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	60,0
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	65,0
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	70,0
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	75,0
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	80,0

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

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



Mark approval certificate No. 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 H30V TRUSS

PROLYTE H30V - ALLOWABLE LOADING																
SPAN		UNIFORMLY DISTRIBUTED LOAD		DEFLECTION		MAXIMUM ALLOWABLE POINT LOADS										SPAN
						CENTRE POINT LOAD		DEFLECTION		SINGLE LOAD THIRD POINTS LOAD PER POINT		SINGLE LOAD FOURTH POINTS LOAD PER POINT		SINGLE LOAD FIFTH POINTS LOAD PER POINT		
m	ft	kg/m	lbs/ft	mm	inch	kg	lbs	mm	inch	kg	lbs	kg	lbs	kg	lbs	total weight
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	6,3
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	12,6
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	18,9
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	25,2
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	31,5
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	37,8
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	44,1
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	50,4
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	56,7
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	63,0
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	69,3
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	75,6
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	81,9
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	88,2
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	94,5
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	100,8

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

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

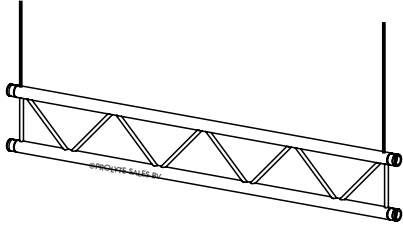


Mark approval certificate No. 2256/04
 Test report No. 2255/04
 TÜV certification only valid for loading table above.

PROLYTE H30L TRUSS

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

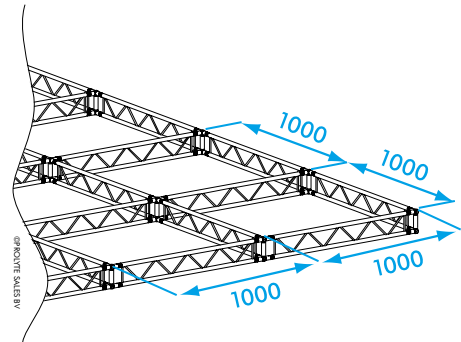


1 inch = 25,4 mm | 1m = 3.28 ft | 1 lbs = 0,453 kg

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

PROLYTE H30L - 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

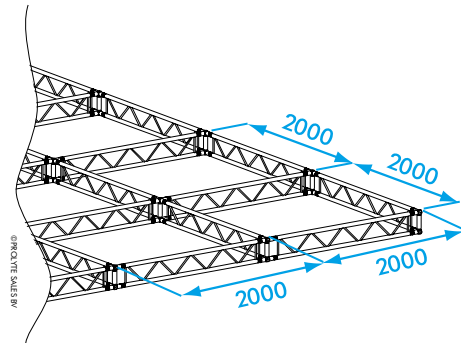


1 inch = 25,4 mm | 1m = 3.28 ft | 1 lbs = 0,453 kg

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

PROLYTE H30L - 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

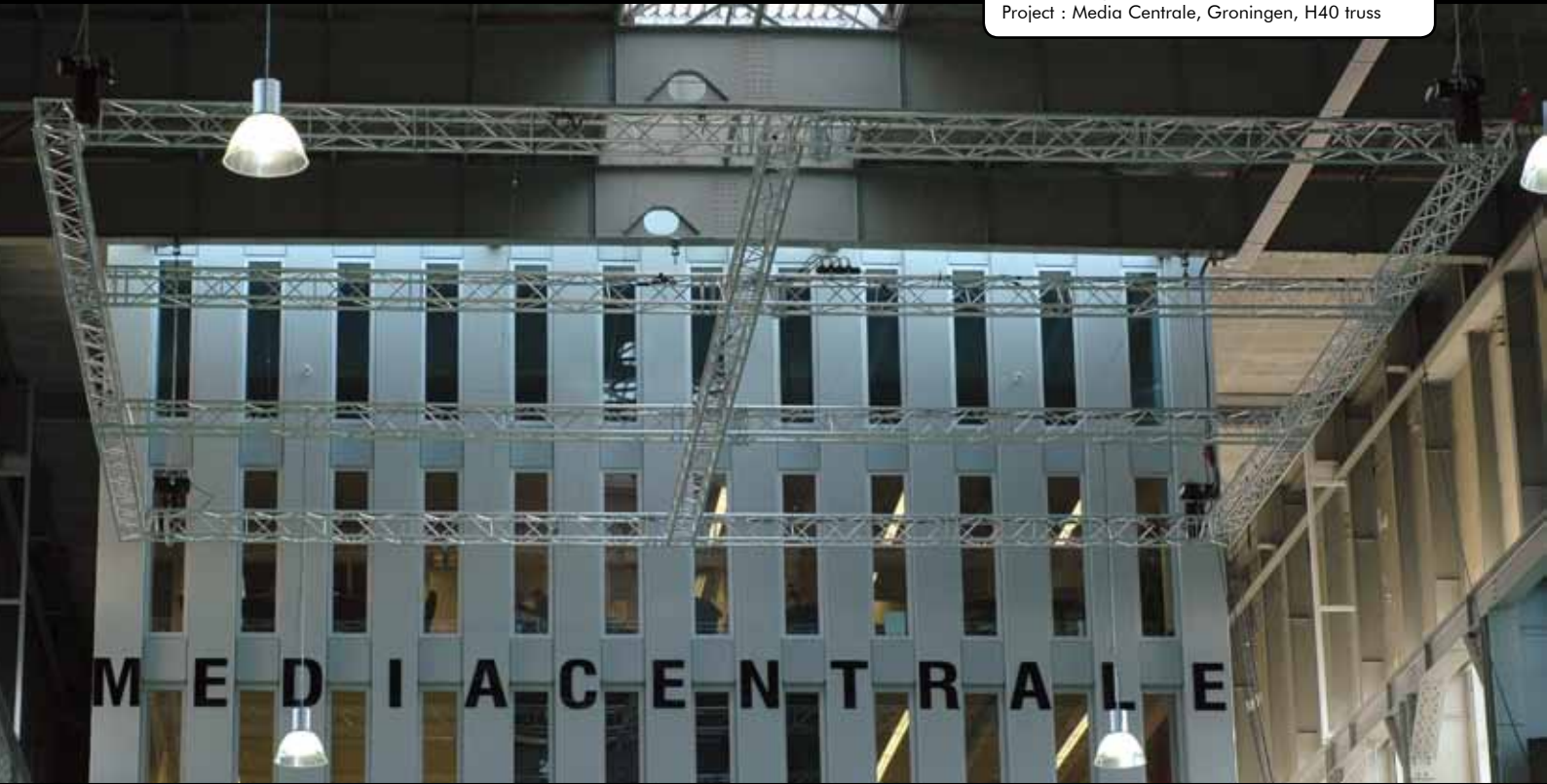


1 inch = 25,4 mm | 1m = 3.28 ft | 1 lbs = 0,453 kg

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

PROLYTE H40D / H40V TRUSS

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



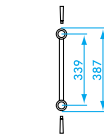
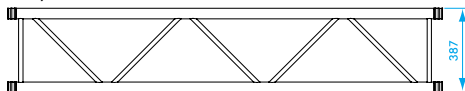
The H40 truss is constructed of main tubes of 48,3 x 3 mm and diagonals of 20 x 2 mm, and uses the CCS6 coupling system. Prolyte supplies a variety of H40 truss elements that

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

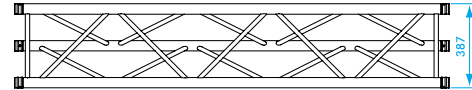


Prolyte H40L top view

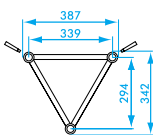
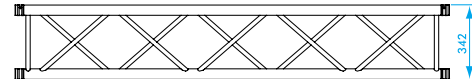
Prolyte H40L side view



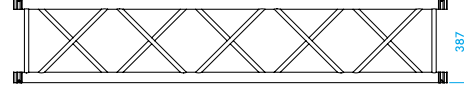
Prolyte H40D top view



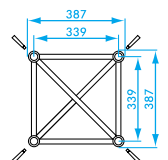
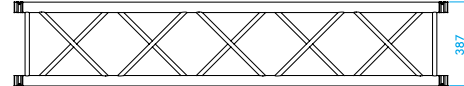
Prolyte H40D side view



Prolyte H40V top view



Prolyte H40V side view



©PROLYTE SALES BV

PROLYTE H40D / H40V TRUSS

PROLYTE H40D - ALLOWABLE LOADING

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

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

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



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

40 SERIES - STANDARD AVAILABLE LENGTHS AND CODES

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

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

TECHNICAL SPECIFICATIONS H40 SERIES

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

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

PROLYTE H40V TRUSS

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

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

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

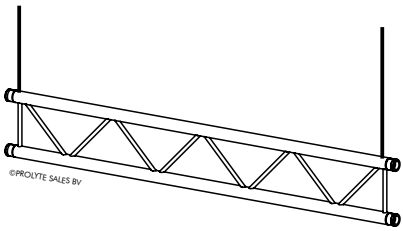


Mark approval certificate No. 2246/04
 Test report No. 2245/04
 TÜV certification only valid for loading table above.

PROLYTE H40L TRUSS

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

SPAN		UNIFORMLY DISTRIBUTED LOAD		DEFLECTION		CPL		DEFLECTION	
		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

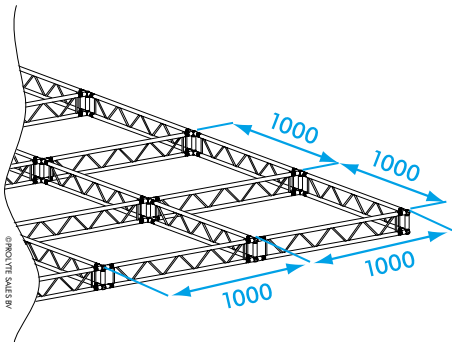


1 inch = 25.4 mm | 1m = 3.28 ft | 1 lbs = 0.453 kg

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

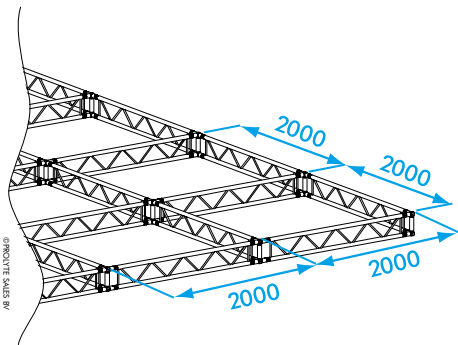


1 inch = 25,4 mm | 1m = 3.28 ft | 1 lbs = 0,453 kg

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

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

System applications

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

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

Coupling system

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



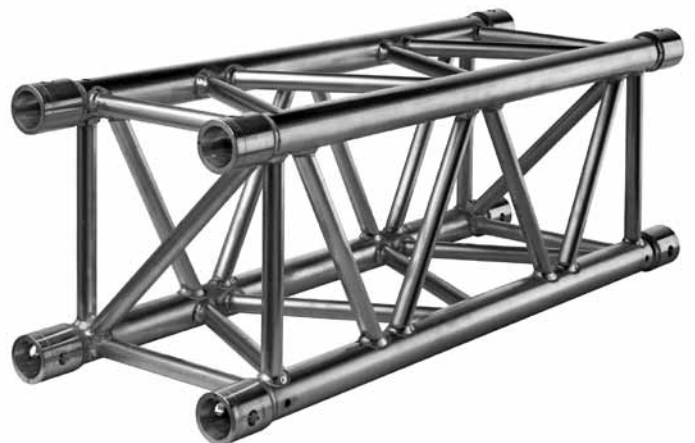
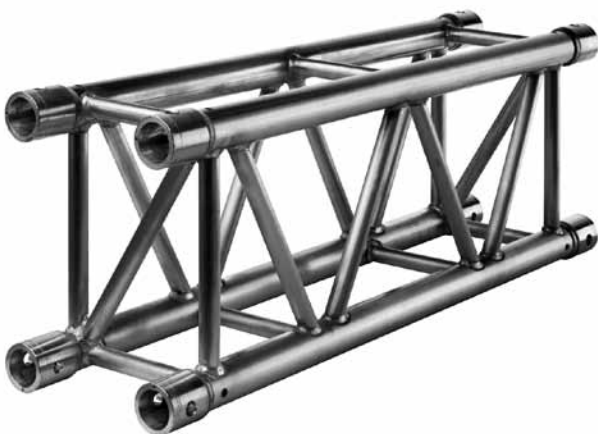
PROLYTE S36R / S36V TRUSS

Photo : Prolyte Sales BV
Project : Amusement park, Germany



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

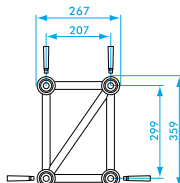
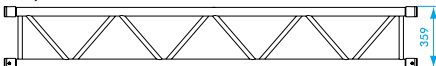
The S36V has 4-sided diagonal webbing and can therefore handle vertical as well as horizontal loads. The S36R can only handle vertical loading. Thanks to the clever spigot pin orientation in the couplers, assembly of the truss is foolproof.



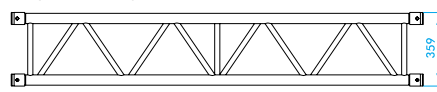
Prolyte S36R top view



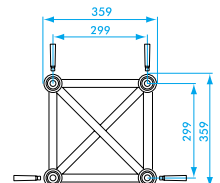
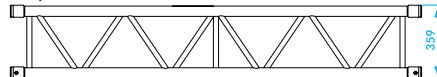
Prolyte S36R side view



Prolyte S36V top view



Prolyte S36V side view



©PROLYTE SALES BV

PROLYTE S36R - ALLOWABLE LOADING

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

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

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



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

TECHNICAL SPECIFICATIONS S36 SERIES

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

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

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 S36V TRUSS

PROLYTE S36V - ALLOWABLE LOADING																
SPAN		UNIFORMLY DISTRIBUTED LOAD		DEFLECTION		MAXIMUM ALLOWABLE POINT LOADS										SPAN
						CENTRE POINT LOAD		DEFLECTION		SINGLE LOAD THIRD POINTS LOAD PER POINT		SINGLE LOAD FOURTH POINTS LOAD PER POINT		SINGLE LOAD FIFTH POINTS LOAD PER POINT		
m	ft	kg/m	lbs/ft	mm	inch	kg	lbs	mm	inch	kg	lbs	kg	lbs	kg	lbs	total weight
2	6.6	2333.8	1570.4	3	0.11	4667.7	10301.6	3	0.11	2333.8	5150.8	1551.9	3425.0	1166,9	2575.4	24,0
3	9.8	1551,9	1044.2	7	0.27	3300,5	7284.2	6	0.23	2327,8	5137.5	1545,9	3411.8	1163,9	2568.8	36,0
4	13.1	1160,9	781.1	13	0.51	2464,9	5440.0	11	0.43	1848,6	4080.0	1232,4	2720.0	1022,9	2257.6	48,0
5	16.4	784,4	527.8	21	0.82	1961,1	4328.1	17	0.66	1470,8	3246.1	980,5	2164.1	813,9	1796.2	60,0
6	19.7	541,1	364.1	30	1.18	1623,2	3582.5	24	0.94	1217,4	2686.9	811,6	1791.2	673,6	1486.7	72,0
7	23.0	394,3	265.3	41	1.61	1380,2	3046.1	33	1.29	1035,2	2284.6	690,1	1523.1	572,8	1264.1	84,0
8	26.2	299,1	201.3	53	2.08	1196,4	2640.5	43	1.69	897,3	1980.4	598,2	1320.3	496,5	1095.8	96,0
9	29.5	233,8	157.3	67	2.63	1052,2	2322.1	54	2.12	789,1	1741.6	526,1	1161.1	436,6	963.7	108,0
10	32.8	187,1	125.9	83	3.26	935,5	2064.8	67	2.63	701,7	1548.6	467,8	1032.4	388,3	856.9	120,0
11	36.1	152,6	102.6	101	3.97	839,0	1851.8	81	3.18	629,3	1388.8	419,5	925.9	348,2	768.5	132,0
12	39.4	126,3	85.0	120	4.72	757,6	1672.1	96	3.77	568,2	1254.1	378,8	836.0	314,4	693.9	144,0
13	42.6	105,8	71.2	141	5.55	687,8	1518.0	113	4.44	515,9	1138.5	343,9	759.0	285,4	630.0	156,0
14	45.9	89,6	60.3	163	6.41	627,1	1384.0	131	5.15	470,3	1038.0	313,6	692.0	260,2	574.4	168,0
15	49.2	76,5	51.5	187	7.36	573,7	1266.2	150	5.90	430,3	949.6	286,8	633.1	238,1	525.5	180,0
16	52.5	65,8	44.3	213	8.38	526,2	1161.4	171	6.73	394,7	871.0	263,1	580.7	218,4	482.0	192,0
17	55.8	56,9	38.3	241	9.48	483,6	1067.3	193	7.59	362,7	800.5	241,8	533.7	200,7	442.9	204,0
18	59.0	49,5	33.3	270	10.63	445,1	982.3	216	8.50	333,8	736.7	222,5	491.1	184,7	407.7	216,0
19	62.3	43,2	29.0	301	11.85	410,0	904.8	214	8.42	307,5	678.6	205,0	452.4	170,1	375.5	228,0
20	65.6	37,8	25.4	333	13.11	377,8	833.7	267	10.51	283,3	625.3	188,9	416.9	156,8	346.0	240,0

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

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



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

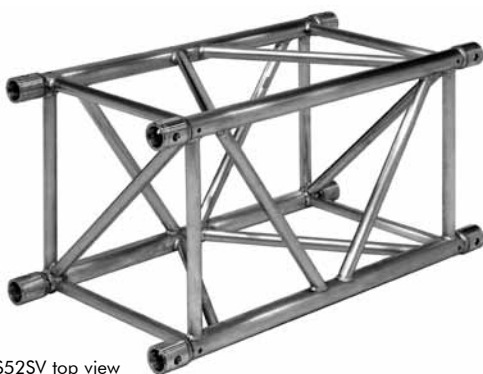
PROLYTE S52F / S52V / S52SV TRUSS

Photo : AED Rent, Belgium
Project : Party tent

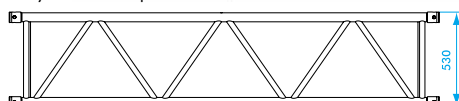


The S52 truss is constructed of main tubes of 50 x 4 mm and diagonals of 25 x 3 mm (S52F) or 30 x 3mm (S52V and SV), and uses the CCS7 coupling system. Prolyte supplies a variety of S52 truss elements that provide maximum flexibility, like standard or custom-made lengths, circles and arches and several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

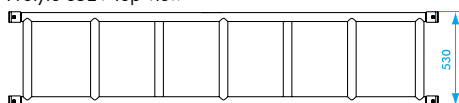
The S52SV has 4-sided diagonal webbing and can therefore handle vertical as well as horizontal loads. The S52V/S52F can only handle vertical loading. The S52F folding truss can save up to 70-80% of warehouse and truck space, while the smart placing of the hinges prevents personal injuries. Thanks to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



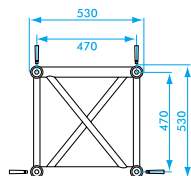
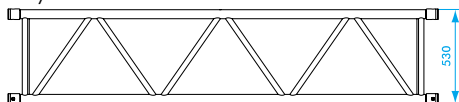
Prolyte S52SV top view



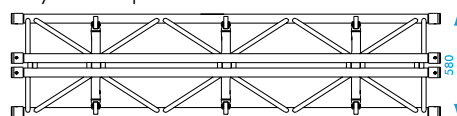
Prolyte S52V top view



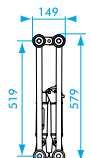
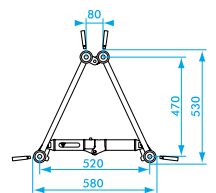
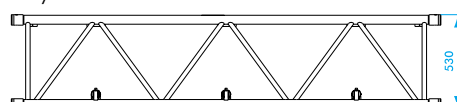
Prolyte S52SV and S52V side view



Prolyte S52F top view



Prolyte S52F side view



PROLYTE S52F TRUSS

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

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

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



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

PROLYTE S52V / S52SV TRUSS

PROLYTE S52SV AND S52V - ALLOWABLE LOADING																
SPAN		UNIFORMLY DISTRIBUTED LOAD		DEFLECTION		MAXIMUM ALLOWABLE POINT LOADS										SPAN
						CENTRE POINT LOAD		DEFLECTION		SINGLE LOAD THIRD POINTS LOAD PER POINT		SINGLE LOAD FOURTH POINTS LOAD PER POINT		SINGLE LOAD FIFTH POINTS LOAD PER POINT		
m	ft	kg/m	lbs/ft	mm	inch	kg	lbs	mm	inch	kg	lbs	kg	lbs	kg	lbs	total weight
2	6.6	2864,0	1927.1	2	0.07	5728,0	12641.6	2	0.07	2864,0	6320.8	1904,3	4202.8	1432,0	3160.4	30,0
3	9.8	1904,3	1281.4	5	0.19	5193,9	11462.8	4	0.15	2856,5	6304.3	1896,8	4186.3	1428,2	3152.1	45,0
4	13.1	1424,5	958.5	9	0.35	3882,3	8568.2	7	0.27	2849,0	6287.7	1889,3	4169.7	1424,5	3143.9	60,0
5	16.4	1136,6	764.8	13	0.51	3092,3	6824.7	11	0.43	2319,2	5118.5	1546,2	3412.4	1283,3	2832.3	75,0
6	19.7	854,4	574.9	19	0.74	2563,2	5656.9	15	0.59	1922,4	4242.7	1281,6	2828.5	1063,7	2347.6	90,0
7	23.0	623,7	419.7	26	1.02	2183,1	4818.1	21	0.82	1637,3	3613.5	1091,5	2409.0	906,0	1999.5	105,0
8	26.2	474,0	319.0	34	1.33	1896,1	4184.8	27	1.06	1422,1	3138.6	948,1	2092.4	786,9	1736.7	120,0
9	29.5	371,4	249.9	43	1.69	1671,3	3688.5	35	1.37	1253,5	2766.4	835,6	1844.3	693,6	1530.7	135,0
10	32.8	298,0	200.5	53	2.08	1489,9	3288.2	43	1.69	1117,4	2466.2	745,0	1644.1	618,3	1364.6	150,0
11	36.1	243,7	164.0	65	2.55	1340,1	2957.7	52	2.04	1005,1	2218.3	670,1	1478.8	556,2	1227.4	165,0
12	39.4	202,3	136.2	77	3.03	1214,1	2679.5	62	2.44	910,6	2009.6	607,0	1339.7	503,8	1112.0	180,0
13	42.6	170,2	114.5	90	3.54	1106,3	2441.5	72	2.83	829,7	1831.2	553,1	1220.8	459,1	1013.2	195,0
14	45.9	144,7	97.4	105	4.13	1012,8	2235.2	84	3.30	759,6	1676.4	506,4	1117.6	420,3	927.6	210,0
15	49.2	124,1	83.5	120	4.72	930,8	2054.2	96	3.77	698,1	1540.7	465,4	1027.1	386,3	852.5	225,0
16	52.5	107,3	72.2	137	5.39	858,1	1893.8	109	4.29	643,5	1420.3	429,0	946.9	356,1	785.9	240,0
17	55.8	93,3	62.8	154	6.06	793,0	1750.2	123	4.84	594,8	1312.7	396,5	875.1	329,1	726.3	255,0
18	59.0	81,6	54.9	173	6.81	734,4	1620.8	138	5.43	550,8	1215.6	367,2	810.4	304,8	672.6	270,0
19	62.3	71,7	48.2	193	7.59	681,1	1503.3	154	6.06	510,9	1127.4	340,6	751.6	282,7	623.9	285,0
20	65.6	63,2	42.6	214	8.42	632,5	1395.8	171	6.73	474,3	1046.9	316,2	697.9	262,5	579.3	300,0
21	68.9	56,0	37.7	235	9.25	587,7	1297.0	188	7.40	440,8	972.8	293,8	648.5	243,9	538.3	315,0
22	72.2	49,7	33.4	258	10.15	546,3	1205.7	207	8.14	409,7	904.3	273,2	602.9	226,7	500.4	330,0
23	75.4	44,2	29.7	282	11.10	507,9	1120.9	226	8.89	380,9	840.7	253,9	560.5	210,8	465.2	345,0
24	78.7	39,3	26.5	307	12.08	472,0	1041.8	246	9.68	354,0	781.4	236,0	520.9	195,9	432.3	360,0

1 inch = 25,4 mm | 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 or wind loads are involved, or more supporting points are applied, contact a structural engineer or Prolyte
- Loading figures are based on German DIN standards; to comply with BS 7905-2 / ANSI E1.2-2006 / CWA 15902-2, the loading data must be multiplied by 0.85
- The self-weight of the trusses has already been taken into account
- For spans longer than indicated and with a different loading set-up use the KYLo programme
- For structures contact Prolyte



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



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

PROLYTE S52F / S52V / S52SV TRUSS

TECHNICAL SPECIFICATIONS S52 SERIES

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

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

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

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

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

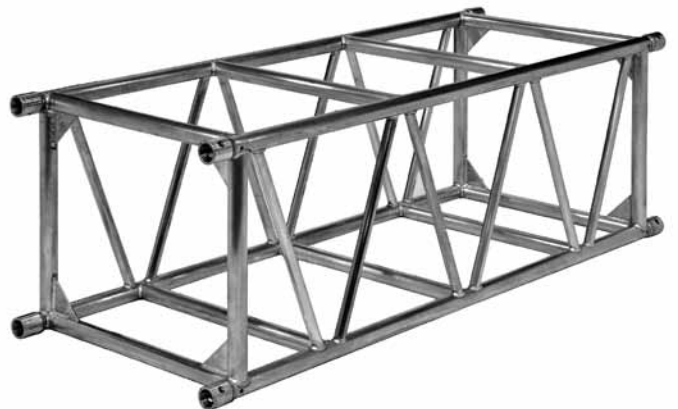
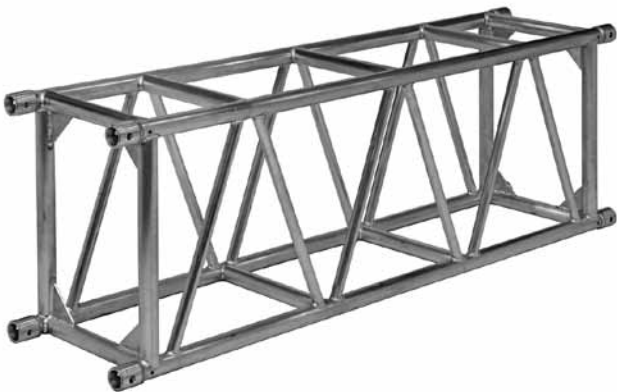
PROLYTE S66R / S66V TRUSS

Photo : Italstage, Italy

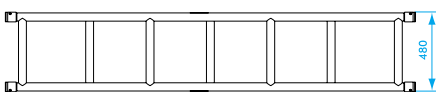


The S66 truss is constructed of main tubes of 50 x 4 mm and diagonals of 30 x 3 mm, and uses the CCS7 coupling system. Both the S66R and S66V have two-sided webbing and are capable of absorbing vertical loads only.

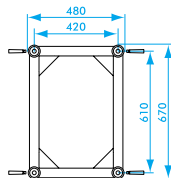
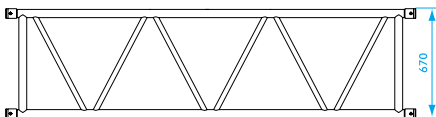
Prolyte supplies a variety of S66 truss elements that provide maximum flexibility, like standard or custom-made lengths, circles and arches and several types of corners. Prolyte can deliver custom-made pieces on request.



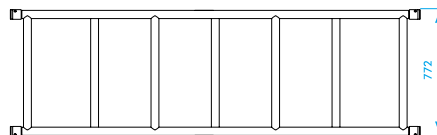
Prolyte S66R top view



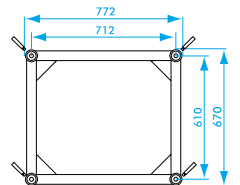
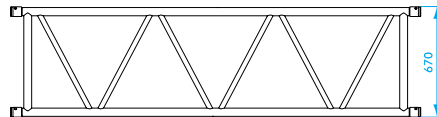
Prolyte S66R side view



Prolyte S66V top view



Prolyte S66V side view



PROLYTE S66R / S66V PRE RIGGED TRUSS

Photo : Qatar Vision, Qatar

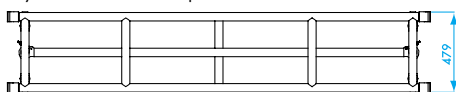


The Prolyte S66R and V trusses can be supplied with a robust drop-down system to enable the fitting of either a 4-bar, 6-bar or 8-bar with PAR 64 cans or other lighting fixtures.

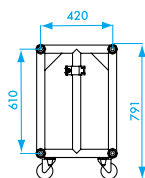
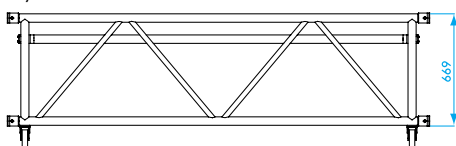
This integrated drop-down system converts the S66 truss into a so-called pre-rigged truss. The S66 truss can be delivered with a set of castor wheels to facilitate handling and transportation.



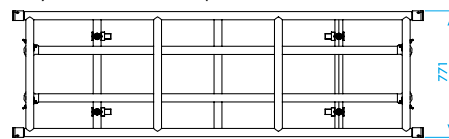
Prolyte S66R PRE RIG top view



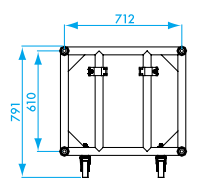
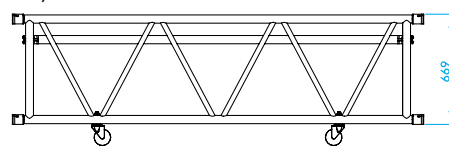
Prolyte S66R PRE RIG side view



Prolyte S66V PRE RIG top view



Prolyte S66V PRE RIG side view



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PROLYTE S66R AND S66V - ALLOWABLE LOADING

SPAN		UNIFORMLY DISTRIBUTED LOAD		DEFLECTION		MAXIMUM ALLOWABLE POINT LOADS										SPAN
						CENTRE POINT LOAD		DEFLECTION		SINGLE LOAD THIRD POINTS LOAD PER POINT		SINGLE LOAD FOURTH POINTS LOAD PER POINT		SINGLE LOAD FIFTH POINTS LOAD PER POINT		
m	ft	kg/m	lbs/ft	mm	inch	kg	lbs	mm	inch	kg	lbs	kg	lbs	kg	lbs	total weight
2	6.6	3106,6	2090.3	2	0.07	6213,2	13712.6	1	0.03	3106,6	6856.3	2065,4	4558.4	1553,3	3428.1	34,0
3	9.8	2065,4	1389.7	4	0.15	6196,2	13675.1	3	0.11	3098,1	6837.5	2056,9	4539.6	1549,1	3418.8	51,0
4	13.1	1544,8	1039.4	7	0.27	5043,6	11131.3	5	0.19	3089,6	6818.8	2048,4	4520.8	1544,8	3409.4	68,0
5	16.4	1232,4	829.3	10	0.39	4019,6	8871.2	8	0.31	3014,7	6653.4	2009,8	4435.6	1540,6	3400.0	85,0
6	19.7	1024,2	689.2	15	0.59	3334,1	7358.3	12	0.47	2500,6	5518.7	1667,0	3679.2	1383,6	3053.7	102,0
7	23.0	812,0	546.4	20	0.78	2842,0	6272.3	16	0.63	2131,5	4704.2	1421,0	3136.1	1179,4	2603.0	119,0
8	26.2	617,7	415.6	26	1.02	2470,8	5453.1	21	0.82	1853,1	4089.8	1235,4	2726.5	1025,4	2263.0	136,0
9	29.5	484,5	326.0	33	1.29	2180,2	4811.7	27	1.06	1635,2	3608.8	1090,1	2405.9	904,8	1996.9	153,0
10	32.8	389,2	261.9	41	1.61	1946,0	4294.9	33	1.29	1459,5	3221.2	973,0	2147.5	807,6	1782.4	170,0
11	36.1	318,7	214.4	50	1.96	1752,9	3868.7	40	1.57	1314,7	2901.5	876,5	1934.3	727,5	1605.5	187,0
12	39.4	265,1	178.4	59	2.23	1590,5	3510.3	47	1.85	1192,9	2632.7	795,3	1755.2	660,1	1456.8	204,0
13	42.6	223,4	150.3	70	2.75	1451,8	3204.2	56	2.20	1088,9	2403.2	725,9	1602.1	602,5	1329.8	221,0
14	45.9	190,2	128.0	81	3.18	1331,7	2939.2	65	2.55	998,8	2204.4	665,9	1469.6	552,7	1219.8	238,0
15	49.2	163,5	110.0	93	3.66	1226,5	2707.0	74	2.91	919,9	2030.2	613,3	1353.5	509,0	1123.4	255,0
16	52.5	141,7	95.3	105	4.13	1133,4	2501.4	84	3.30	850,1	1876.1	566,7	1250.7	470,4	1038.1	272,0
17	55.8	123,6	83.1	119	4.68	1050,2	2317.9	95	3.74	787,7	1738.4	525,1	1158.9	435,8	961.9	289,0
18	59.0	108,4	72.9	134	5.27	975,4	2152.6	107	4.21	731,5	1614.5	487,7	1076.3	404,8	893.3	306,0
19	62.3	95,5	64.3	149	5.86	907,5	2002.8	119	4.68	680,6	1502.1	453,7	1001.4	376,6	831.2	323,0
20	65.6	84,6	56.9	165	6.49	845,5	1866.1	132	5.19	634,1	1399.6	422,8	933.0	350,9	774.4	340,0
21	68.9	75,1	50.5	182	7.16	788,7	1740.6	145	5.70	591,5	1305.4	394,3	870.3	327,3	722.3	357,0
22	72.2	66,9	45.0	199	7.83	736,2	1624.8	160	6.29	552,2	1218.6	368,1	812.4	305,5	674.3	374,0
23	75.4	59,8	40.2	218	8.58	687,6	1517.5	174	6.85	515,7	1138.1	343,8	758.7	285,3	629.7	391,0
24	78.7	53,5	36.0	237	9.33	642,3	1417.5	190	7.48	481,7	1063.1	321,1	708.7	266,5	588.3	408,0

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

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



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



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

PROLYTE S66R / S66V TRUSS

TECHNICAL SPECIFICATIONS S66 SERIES

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

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

S66 SERIES - STANDARD AVAILABLE LENGTHS AND CODES

Meters	Feet	Code*	
0,25 / 1,00 m in steps of 5 mm	0.82' / 3.28' in steps of 0.2"		
1,00	3.28	S66•-L100	
1,50	4.92	S66•-L150	
1,74*	5.71	S66•-L174	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

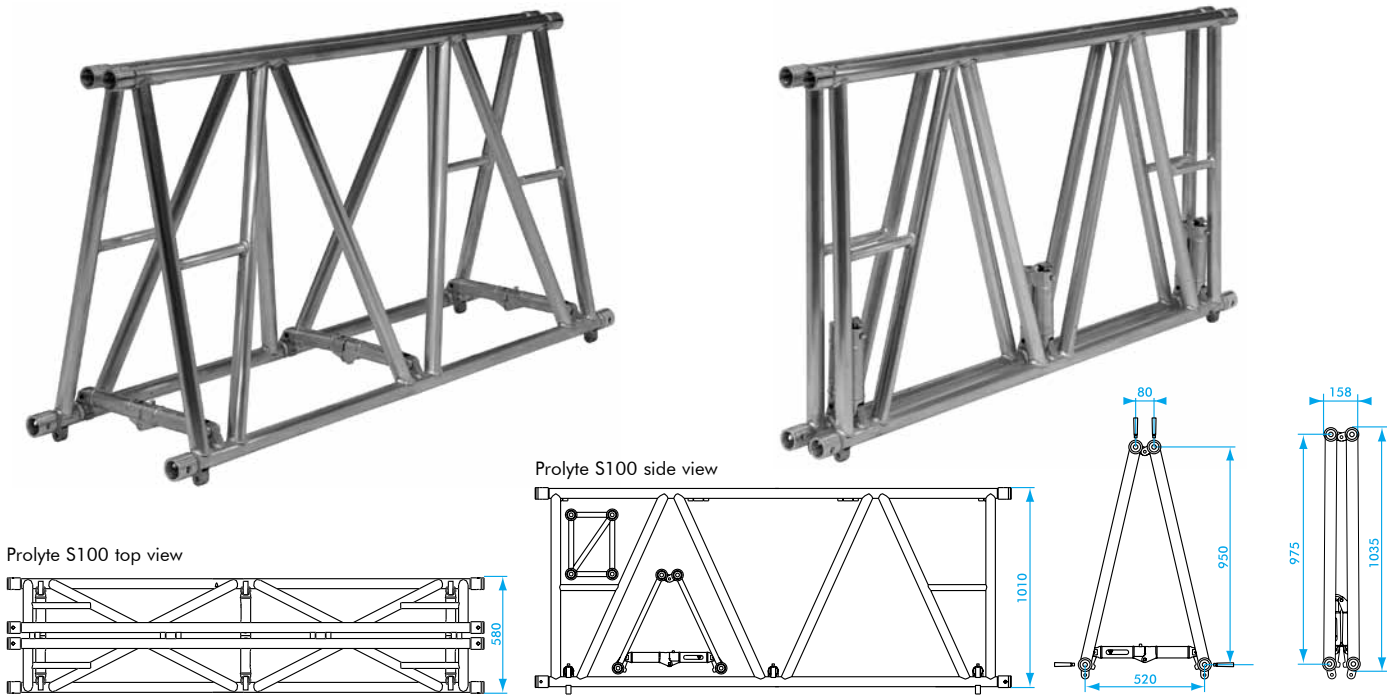
PROLYTE S100F TRUSS

Photo : AED RENT, Belgium
 Project : Fashion show



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

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



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PROLYTE S100F TRUSS

PROLYTE S100F - ALLOWABLE LOADING

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

1 inch = 25.4 mm | 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 or wind loads are involved, or more supporting points are applied, contact a structural engineer or Prolyte
- Loading figures are based on German DIN standards; to comply with BS 7905-2 / ANSI E1.2-2006 / CWA 15902-2, the loading data must be multiplied by 0.85
- The self-weight of the trusses has already been taken into account
- For structures contact Prolyte



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

S100 SERIES - STANDARD AVAILABLE LENGTHS AND CODES

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

TECHNICAL SPECIFICATIONS S100 SERIES

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

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

Photo : ModifiC, Russian federation
Project : Armenian festival



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

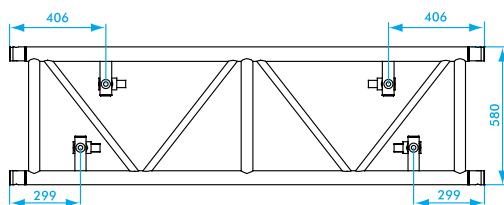
Prolyte can deliver custom-made pieces on request.

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

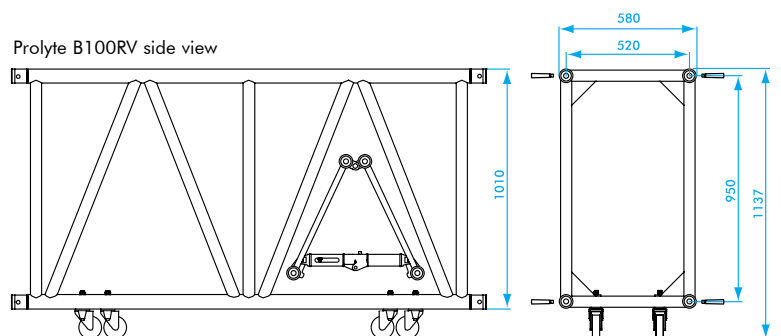
These castors are positioned on the inside of the main chords to allow for easy stacking of the truss for transportation purposes. Thanks to the clever spigot pin orientation in the couplers, assembly of the truss is foolproof.



Prolyte B100RV top view



Prolyte B100RV side view



PROLYTE B100RV TRUSS

PROLYTE B100RV - ALLOWABLE LOADING

SPAN		UNIFORMLY DISTRIBUTED LOAD		DEFLECTION		CENTRE POINT LOAD		DEFLECTION		SINGLE LOAD THIRD POINTS		SINGLE LOAD FOURTH POINTS		SINGLE LOAD FIFTH POINTS		SPAN
		UDL				CPL				TPL		QPL		FPL		
m	ft	kg/m	lbs/ft	mm	inch	kg	lbs	mm	inch	kg	lbs	kg	lbs	kg	lbs	total weight
2	6.6	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	44,0
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	66,0
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	88,0
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	110,0
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	132,0
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	154,0
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	176,0
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	198,0
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	220,0
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	242,0
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	264,0
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	286,0
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	308,0
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	330,0
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	352,0
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	374,0
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	396,0
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	418,0
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	440,0
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	462,0
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	484,0
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	506,0
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	528,0
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	550,0
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	572,0
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	594,0
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	616,0
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	638,0
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	660,0
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	682,0
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	704,0
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	726,0
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	748,0
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	770,0
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	792,0
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	814,0
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	836,0
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	858,0
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	880,0

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

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



Mark approval certificate
No. 2733/03
Test report No. 2732/03
TÜV certification only valid
for loading table above.

PROLYTE B100RV TRUSS

TECHNICAL SPECIFICATIONS B100RV SERIES

Type	Rectangle
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

PROLYTE B100RV CATWALK - ALLOWABLE LOADING

SPAN		UNIFORMLY DISTRIBUTED LOAD		DEFLECTION		MAXIMUM ALLOWABLE POINT LOADS										SPAN
		UDL		DEFLECTION		CPL		DEFLECTION		TPL		QPL		FPL		total weight
m	ft	kg/m	lbs/ft	mm	inch	kg	lbs	mm	inch	kg	lbs	kg	lbs	kg	lbs	
4	13.1	1470,0	989.1	1	0.03	3181.0	7020.5	1	0.03	2385.8	5265.4	1590.5	3510.2	1320.1	2913.5	220,0
5	16.4	1007.1	677.7	2	0.07	2517.8	5556.8	1	0.03	1884.4	4167.6	1258.9	2778.4	1044.9	2306.1	250,0
6	19.7	690.2	464.4	2	0.07	2070.7	4570.0	2	0.07	1553.0	3427.5	1035.3	2285.0	859.3	1896.5	280,0
7	23.0	499,1	335.9	3	0.12	1747.0	3855.6	2	0,09	1310.3	2891.7	873.5	1927.8	725.0	1600.1	210,0
8	26.2	375,1	252.4	4	0.16	1500.5	3311.6	3	0.12	1125.4	2483.7	750.3	1655.8	622.7	1374.3	240,0
9	29.5	290,1	195.2	5	0.19	1305.4	2881.1	4	0.16	979.1	2160.8	652.7	1440.6	541.8	1195.7	270,0
10	32.8	229,3	154.3	6	0.23	1146.4	2530.1	5	0.19	859.8	1897.6	573.2	1265.1	475.8	1050.0	300,0
11	36.1	184,3	124.0	7	0.27	1013.5	2236.9	6	0.23	760.2	1677.7	506.8	1118.4	420.6	928.3	330,0
12	39.4	150,1	101.0	9	0.35	900.3	1987.0	7	0.27	675.3	1490.3	450.2	993.5	373.6	824.6	360,0
13	42.6	123,4	83.0	10	0.39	802.2	1770.5	8	0.31	601.7	1327.9	401.1	885.3	332.9	734.8	390,0
14	45.9	102,3	68.8	12	0.47	716.0	1580.2	10	0.39	537.0	1185.2	358.0	790.1	297.1	655.8	420,0
15	49.2	85,2	57.4	14	0.55	639.3	1410.9	11	0.43	479.5	1058.1	319.6	705.4	265.3	585.5	450,0
16	52.5	71,3	48.0	16	0.62	570.3	1258.5	13	0.51	427.7	943.9	285.1	629.3	236.7	522.3	480,0
17	55.8	59,7	40.2	18	0.70	507.6	1120.2	14	0.55	380.7	840.2	253.8	560.1	210.6	464.9	510,0
18	59.0	50,0	33.7	20	0.78	450.2	993.6	16	0.62	337.7	745.2	225.1	496.8	186.8	412.4	540,0
19	62.3	41,8	28.1	22	0.86	397.3	876.9	18	0.70	298.0	657.7	198.7	438.4	164.9	363.9	570,0
20	65.6	34,8	23.4	25	0.98	348.2	768.5	20	0.78	261.2	576.4	174.1	384.2	144.5	318.9	600,0

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

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



Mark approval certificate
No. 2733/03
Test report No. 2732/03
TUV certification only valid
for loading table above.

PROLYTE CATWALK TRUSS

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



The design of the Prolyte catwalk truss (B100RV-CW) is 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.

Allowable loading table on page 41

PROLYTE MAMMOTH TRUSS



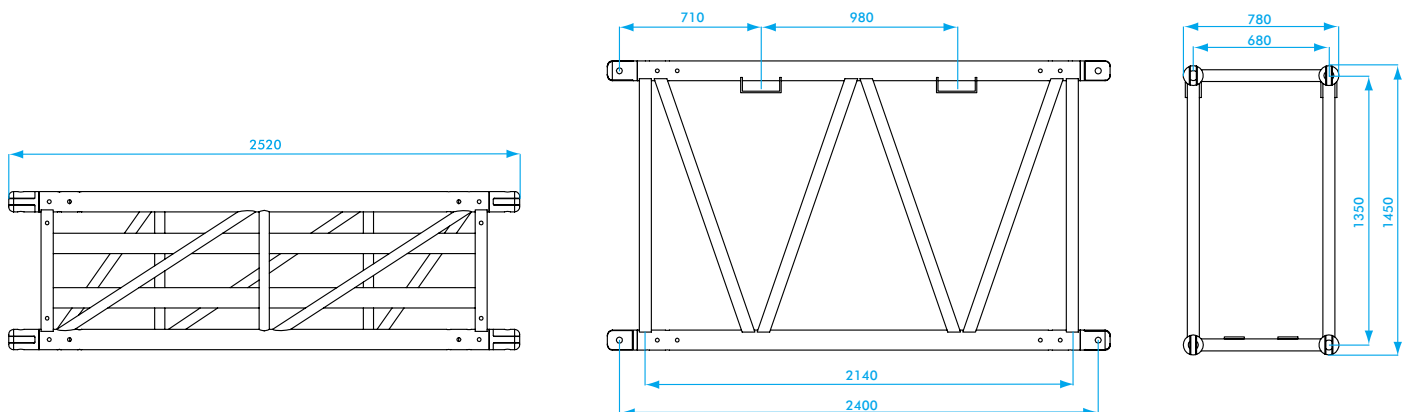
Big, Bigger, Biggest?

The Prolyte M145RV Mammoth truss is one of the biggest trusses ever constructed from aluminium.

The final design of this truss not only reflects the Prolyte philosophy of making user-friendly products, it also proves the unrivalled technological knowledge and experience Prolyte has gained over the years.

Practise translated into design

The basic requirements for this truss are massive strength and application possibilities within a construction, like a roof system or mother grid. With its massive strength the M145RV Mammoth truss is 5 times stronger than the B100 truss, on a stretch of 30 m. you still can apply a point load of 6400kg. The truss has no internal diagonals, other trusses can be stored within the M145RV. The overall measurements are thus designed that container and truck space are efficiently used. Pick up points for forklift handling are integrated.



PROLYTE MAMMOTH TRUSS

PROLYTE MAMMOTH TRUSS - ALLOWABLE LOADING																
SPAN		UNIFORMLY DISTRIBUTED LOAD		DEFLECTION		MAXIMUM ALLOWABLE POINT LOADS										SPAN
						CENTRE POINT LOAD		DEFLECTION		SINGLE LOAD THIRD POINTS		SINGLE LOAD FOURTH POINTS		SINGLE LOAD FIFTH POINTS		
m	ft	kg/m	lbs/ft	mm	inch	kg	lbs	mm	inch	kg	lbs	kg	lbs	kg	lbs	total weight
24,0	78,7	700,0	471,0	122	4.80	8400,0	18538,8	97	3.81	6300,0	13904,1	4200,0	9269,4	3486,0	7693,6	500,0
26,4	86,6	569,8	383,4	147	5.78	7521,8	16600,7	118	4.64	5641,4	12450,5	3760,9	8300,3	3121,6	6889,3	550,0
28,8	94,5	470,8	316,8	175	6.88	6780,0	14963,5	140	5.51	5085,0	11222,6	3390,0	7481,7	2813,7	6209,8	600,0
31,2	102,3	393,8	265,0	206	8.11	6143,1	13557,8	165	6.49	4607,3	10168,3	3071,5	6778,9	2549,4	5626,5	650,0
33,6	110,2	332,7	223,8	239	9.40	5588,6	12334,0	191	7.51	4191,4	9250,5	2794,3	6167,0	2319,3	5118,6	700,0
36,0	118,1	283,3	190,6	274	10.78	5100,0	11255,7	219	8.62	3825,0	8441,8	2550,0	5627,9	2116,5	4671,1	750,0
38,4	126,0	243,0	163,5	312	12.83	4665,0	10295,7	249	9.80	3498,8	7721,7	2332,5	5147,8	1936,0	4272,7	800,0
40,8	133,8	209,5	141,0	352	13.85	4274,1	9433,0	282	11.10	3205,6	7074,7	2137,1	4716,5	1773,8	3914,7	850,0
43,2	141,7	181,5	122,1	394	15.51	3920,0	8651,4	316	12.44	2940,0	6488,6	1960,0	4325,7	1626,8	3590,3	900,0
45,6	149,6	157,8	106,1	440	17.32	3596,8	7938,2	352	13.85	2697,6	5953,7	1798,4	3969,1	1492,7	3294,4	950,0
48,0	157,4	134,6	90,5	480	18.89	3300,0	7283,1	390	15.35	2356,5	5200,7	1650,0	3641,6	1303,9	2877,7	1000,0
50,4	165,3	109,4	73,6	504	19.84	3025,7	6677,8	430	16.92	2008,7	4433,2	1492,8	3294,5	1111,5	2453,1	1050,0

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

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

TECHNICAL SPECIFICATIONS MAMMOTH TRUSS

Types	RV
Alloy	EN AW 6082 T6
Main tubes (chords)	100 x 8 mm
Braces	60 x 60 x 3,5 / 50,4 mm
Coupling system	Pin/fork

Type	MAMMOTH	
Allowable Normal Force in Main Chord	N	200 kN
Allowable Normal Force in Diagonals vertical	N	63,3 kN
Allowable Normal Force in Diagonals horizontal	N	46,24 kN
Surface area Complete Truss	A	92,5 cm ²
Moment of Inertia Y-axis	I _y	380147,9 cm ⁴
Moment of Inertia Z-axis	I _z	97112,4 cm ⁴
Allowable bending moment Y-axis	M _y	540 kNm
Allowable bending moment Z-axis	M _z	272 kNm
Allowable shear force Z-axis	Q _z /V _z	118,1 kN
Allowable shear force Y-axis	Q _y /V _y	47,6 kN
Selfweight	kg	50 kg/m

MAMMOTH TRUSS - STANDARD AVAILABLE LENGTHS AND CODES

Meters	Feet	Code
2,40	8	M145RV-L240
4,80	16	M145RV-L480

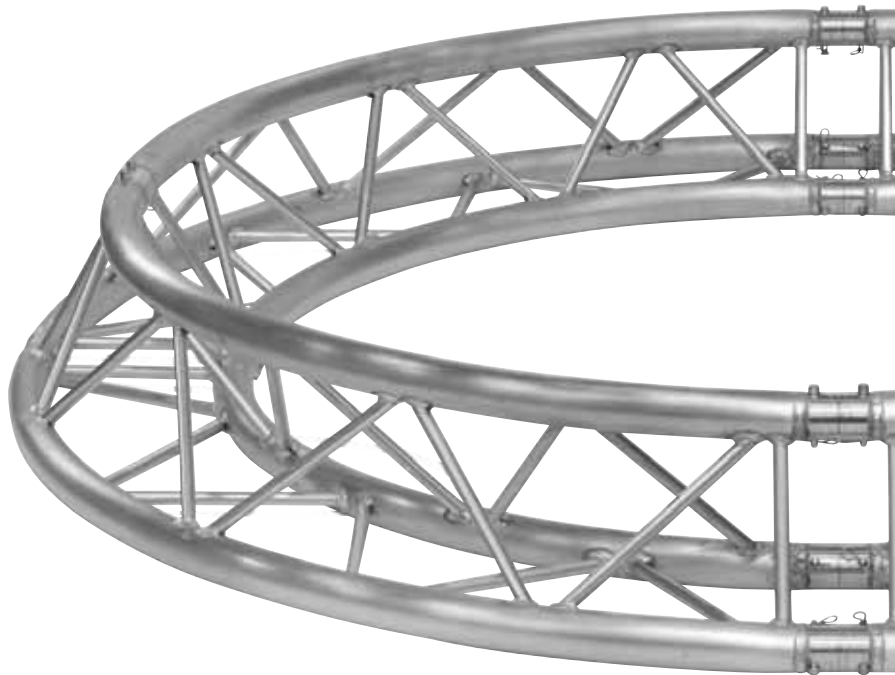
CIRCULAR TRUSS



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 production by means of semi-automated welding jigs, all parts produced 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.



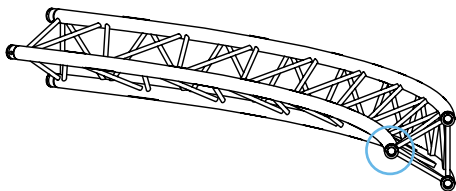
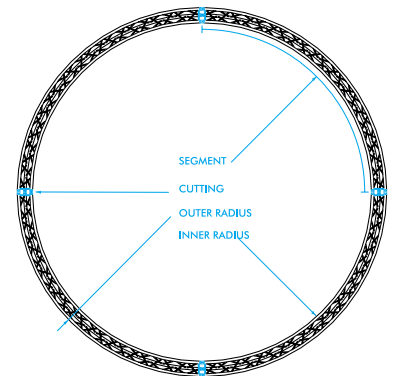
PROLYTE CIRCULAR TRUSS

Photo: PRO 1,
Project: Wella fashion show

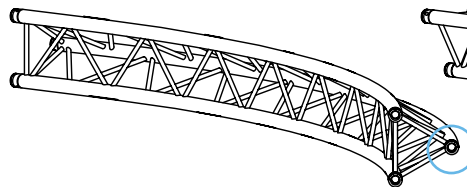


Circular or curved trusses are manufactured in different diameters or degrees. When ordering a complete circular truss, the amount of cuttings required (each segment requires one cut) must be indicated. Couplers do not have to be ordered separately, as they are included in the amount of cuttings ordered.

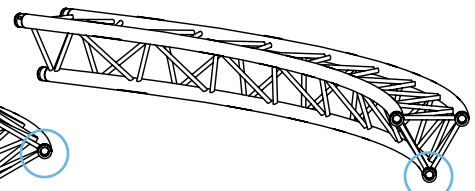
A “cutting” divides the circle into segments. Individual segments cannot be longer than 5 metres. Prolyte recommends segment lengths of between 3-4 metres. For further details in this regard, please refer to the Black Book “Technical Matters”.



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, please visit our website.

- The absence of diagonal braces at the top and/or bottom side of the truss means a dramatic reduction in the allowable loading; a structural report per situation is required for these models
- Loading figures are based on German DIN standards; to comply with BS 7905-2 / ANSI E1.2-2006 / CWA 15902-2, the loading data must be multiplied by 0.85

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

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- The absence of diagonal braces at the top and/or bottom side of the truss means a dramatic reduction in the allowable loading; a structural report per situation is required for these models
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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, please visit our website.

- The absence of diagonal braces at the top and/or bottom side of the truss means a dramatic reduction in the allowable loading; a structural report per situation is required for these models
- Loading figures are based on German DIN standards; to comply with BS 7905-2 / ANSI E1.2-2006 / CWA 15902-2, the loading data must be multiplied by 0.85

CANTILEVER LOAD



Photo: Event Structures, UK

Cantilever loads are a common phenomenon in daily practice. It is sometimes hard to predict what will actually happen with regard to loading and the resulting forces in a cantilever span.

As an additional service, we have therefore compiled the loading tables for cantilever loads for all our truss types. With the help of these tables, you will be able to apply cantilever loads in a safe and secure way.

Please be sure to read and understand these loading tables before bringing such loads into effect.

CANTILEVER LOAD

CANTILEVER LOAD E20D		
l_k (m)	P (kg)	q (kg/m)
0,5	156	312
1,0	98	156
1,5	70	80
2,0	52	48
2,5	41	31
3,0	33	22
3,5	28	16
4,0	24	12

CANTILEVER LOAD E20V		
l_k (m)	P (kg)	q (kg/m)
0,5	180	360
1,0	169	180
1,5	127	120
2,0	101	83
2,5	83	56
3,0	71	41
3,5	61	31
4,0	53	24

CANTILEVER LOAD X30D		
l_k (m)	P (kg)	q (kg/m)
0,5	642	1766
1,0	393	639
1,5	282	322
2,0	219	193
2,5	178	128
3,0	147	91
3,5	124	68
4,0	107	52

CANTILEVER LOAD X30V		
l_k (m)	P (kg)	q (kg/m)
0,5	701	1985
1,0	437	990
1,5	316	619
2,0	247	386
2,5	201	263
3,0	169	190
3,5	144	144
4,0	126	112

CANTILEVER LOAD H30D		
l_k (m)	P (kg)	q (kg/m)
0,5	849	1765
1,0	527	846
1,5	381	430
2,0	297	260
2,5	242	173
3,0	203	123
3,5	172	92
4,0	148	70

CANTILEVER LOAD H30V		
l_k (m)	P (kg)	q (kg/m)
0,5	992	1984
1,0	989	989
1,5	781	657
2,0	626	491
2,5	521	351
3,0	446	256
3,5	388	194
4,0	343	152

CANTILEVER LOAD H40D		
l_k (m)	P (kg)	q (kg/m)
0,5	1035	2271
1,0	680	1031
1,5	505	543
2,0	400	336
2,5	330	228
3,0	281	164
3,5	243	124
4,0	214	96

CANTILEVER LOAD H40V		
l_k (m)	P (kg)	q (kg/m)
0,5	1277	2553
1,0	1273	1273
1,5	995	846
2,0	815	632
2,5	688	442
3,0	595	326
3,5	523	251
4,0	465	198

CANTILEVER LOAD S36R		
l _k (m)	P (kg)	q (kg/m)
0,5	1702	4021
1,0	1298	1695
1,5	1047	974
2,0	875	641
2,5	750	456
3,0	655	341
3,5	580	265
4,0	519	211

CANTILEVER LOAD S36V		
l _k (m)	P (kg)	q (kg/m)
0,5	1702	4019
1,0	1297	1693
1,5	1046	973
2,0	874	640
2,5	749	454
3,0	653	340
3,5	577	263
4,0	516	209

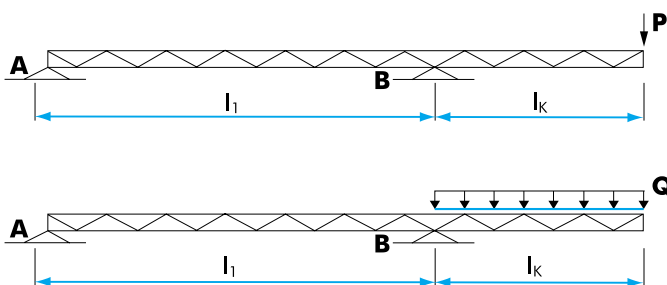
CANTILEVER LOAD B100RV		
l _k (m)	P (kg)	q (kg/m)
1,0	3773	4290
1,5	3356	2666
2,0	3020	1872
2,5	2743	1406
3,0	2511	1104
3,5	2313	893
4,0	2142	740
4,5	1994	624
5,0	1863	534
5,5	1746	462
6,0	1642	403
6,5	1548	355
7,0	1463	315
7,5	1386	282
8,0	1315	253
8,5	1250	228

CANTILEVER LOAD S52F		
l _k (m)	P (kg)	q (kg/m)
0,5	995	2929
1,0	833	1319
1,5	716	999
2,0	626	685
2,5	556	505
3,0	499	389
3,5	452	309
4,0	412	252
4,5	378	209
5,0	349	176

CANTILEVER LOAD S52V AND S52SV		
l _k (m)	P (kg)	q (kg/m)
0,5	1917	4303
1,0	1565	1905
1,5	1321	1138
2,0	1140	771
2,5	1001	562
3,0	890	429
3,5	800	338
4,0	724	274
4,5	660	226
5,0	605	189

CANTILEVER LOAD S66 SERIES		
l _k (m)	P (kg)	q (kg/m)
0,5	2019	4427
1,0	1707	2006
1,5	1476	1221
2,0	1298	841
2,5	1157	621
3,0	1041	479
3,5	945	382
4,0	863	312
4,5	793	259
5,0	732	219
5,5	678	187
6,0	630	161

CANTILEVER LOAD S100F		
l _k (m)	P (kg)	q (kg/m)
1,0	1040	1103
1,5	976	707
2,0	918	511
2,5	865	393
3,0	816	316
3,5	771	261
4,0	730	220
4,5	692	188
5,0	656	163
5,5	623	143
6,0	591	126



Loading figures only valid for static loads and spans with two supporting points.

LOADING	
single load ballast at point A	$(P \times l_k / l_1) \times 1,5$
distributed load over length l _k	$\left(\frac{Q \times l_k}{2 \times l_1} \right) \times 1,5$

P = kg or N
l = mm or m
Q = total UDL

Point A should have enough ballast weight to avoid the risk of uplifting caused by the cantilever weight P/q.

CORNERS



Photo: RSL, The Netherlands

The Prolyte truss series are complemented by a broad range of standard corners, box corners and book corners. Combining corners with straight or curved trusses makes it possible to construct an endless variety of configurations in terms of structure or grid.

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 Prolyte's Customer Services.

Box corners

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

A 6-way cube is combined with specially 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 as desired simply by mounting the female or male receivers to the corner. The flexibility and fixed dimensions of the box corner makes it a 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 a fully fledged construction element, unlike traditional types of corners.

* The box corner system is patented by Prolyte.

Book corners

The Prolyte book corner is designed to be a flexible-angle corner. Angles ranging 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 a 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 Porsche



20 SERIES



30 SERIES



40 SERIES



S36V

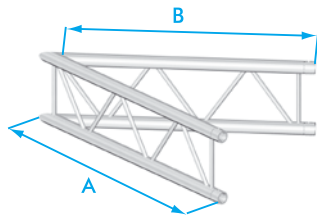


S52F

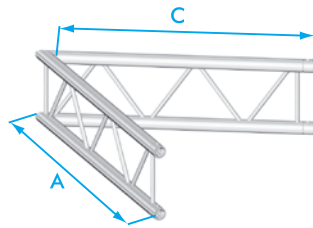


S100F

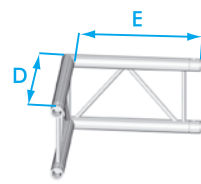
LADDER CORNERS E20 X/H30 H40



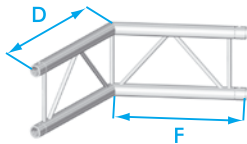
C001U - 45°



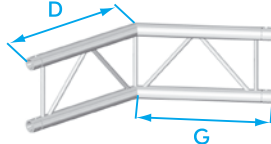
C002U - 60°



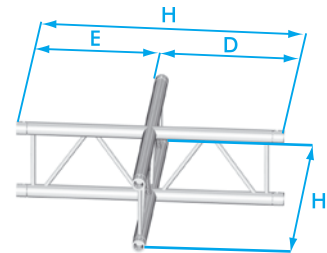
C003U - 90°



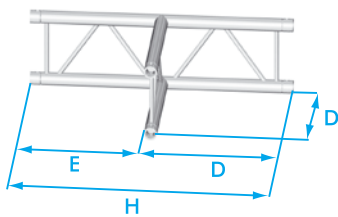
C004U - 120°



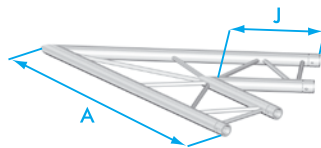
C005U - 135°



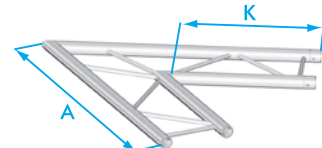
C016U



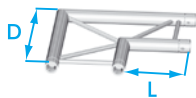
C017U



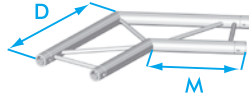
C001F - 45°



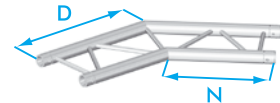
C0002F - 60°



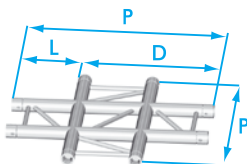
C003F - 90°



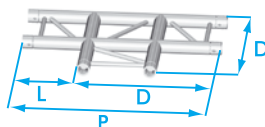
C004F - 120°



C005F - 135°



C016F



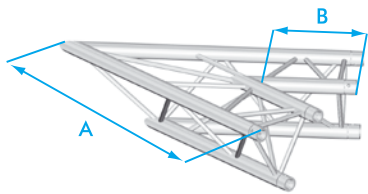
C017F

U = LADDER UP
F = LADDER FLAT

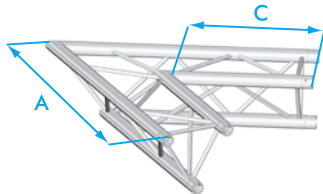
LADDER CORNERS

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

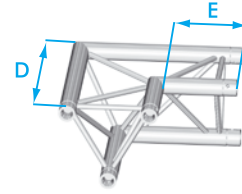
TRIANGULAR CORNERS E20 X/H30 H40



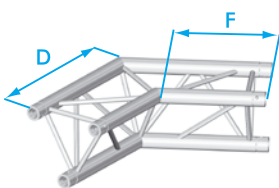
C001 - 45°



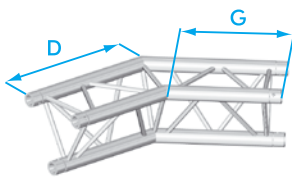
C002 - 60°



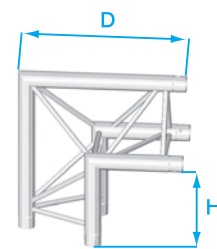
C003 - 90°



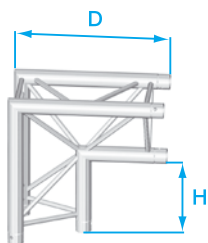
C004 - 120°



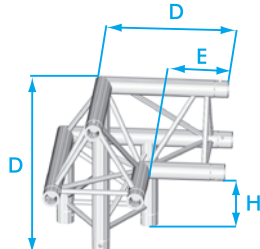
C005 - 135°



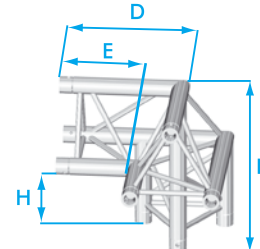
C006



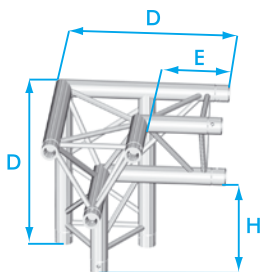
C007



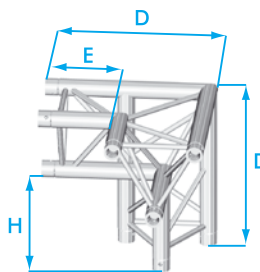
C010



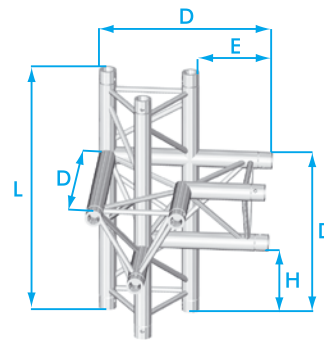
C011



C012



C013

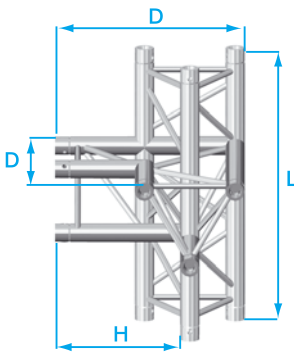


C014

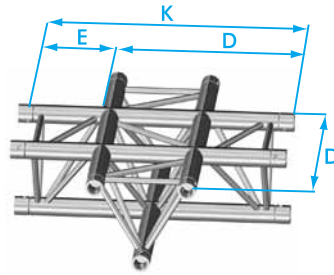
TRIANGULAR CORNERS

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

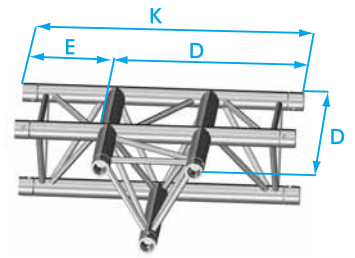
TRIANGULAR CORNERS E20 X/H30 H40



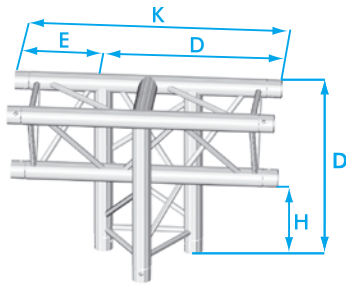
C015



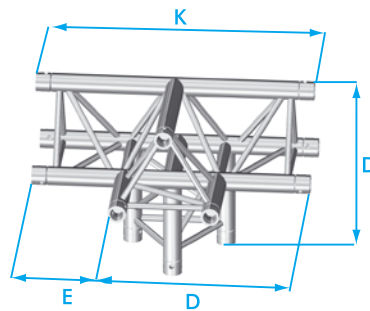
C016



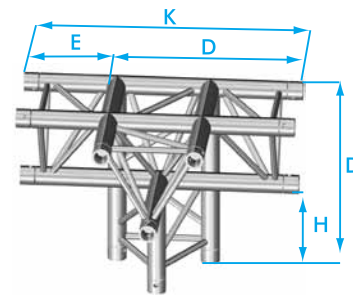
C017



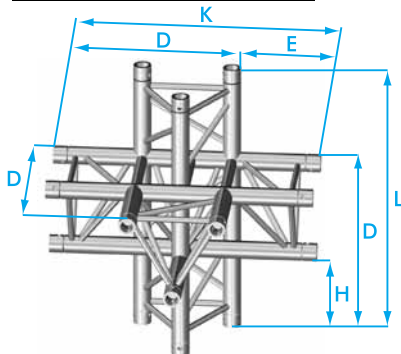
C018



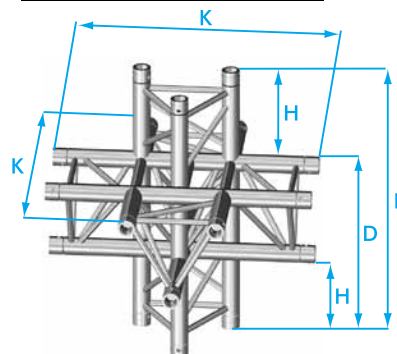
C019



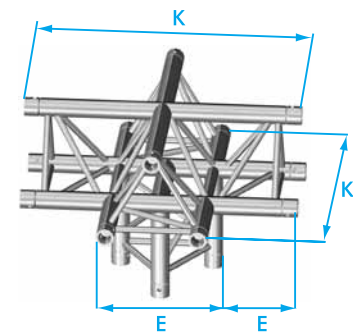
C020



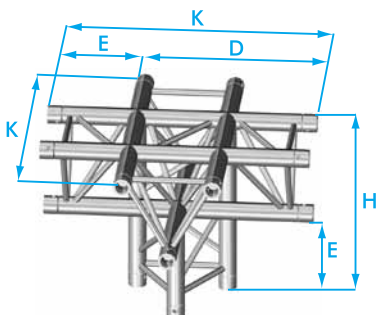
C021



C022



C023

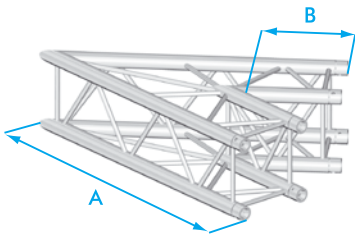


C024

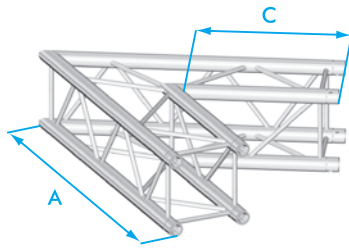
TRIANGULAR CORNERS

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

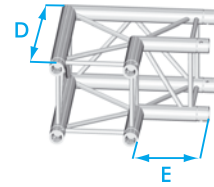
SQUARE CORNERS E20 X/H30 H40



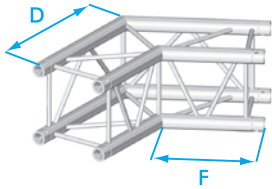
C001 - 45°



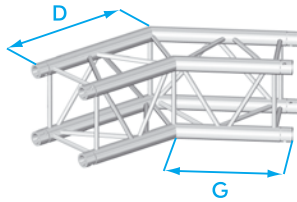
C002 - 60°



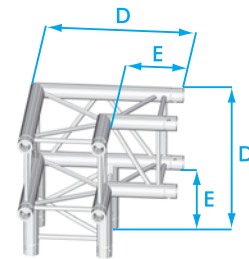
C003 - 90°



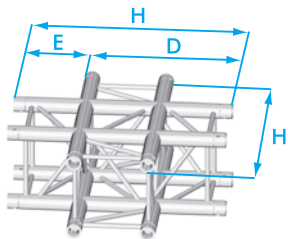
C004 - 120°



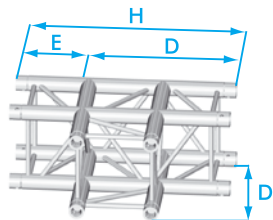
C005 - 135°



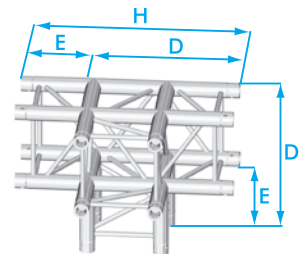
C012



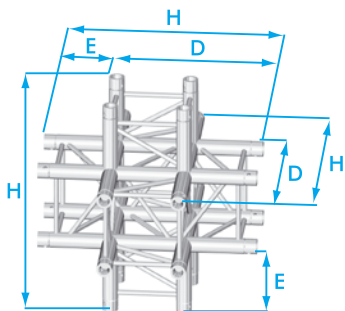
C016



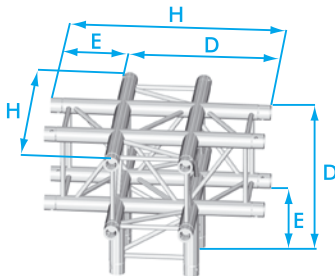
C017



C020



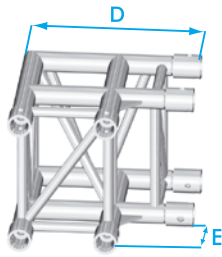
C022



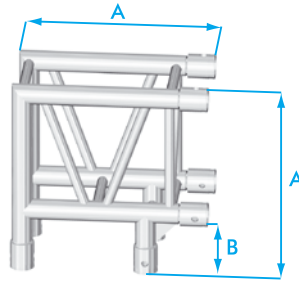
C024

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

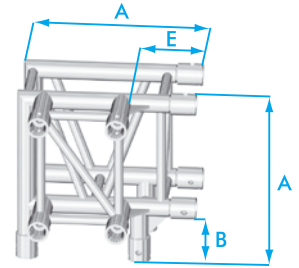
STANDARD CORNERS S36 SERIES



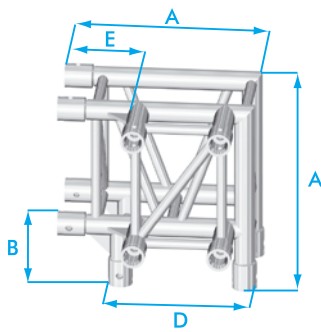
S36R - C003



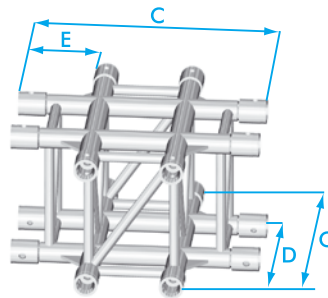
S36R - C007



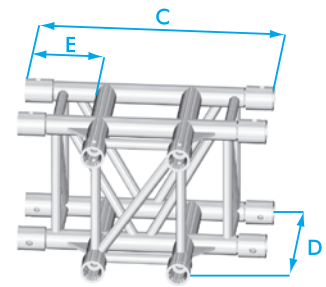
S36R - C012



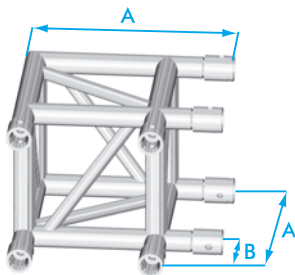
S36R - C013



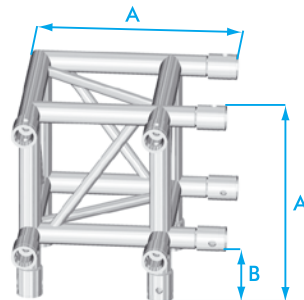
S36R - C016



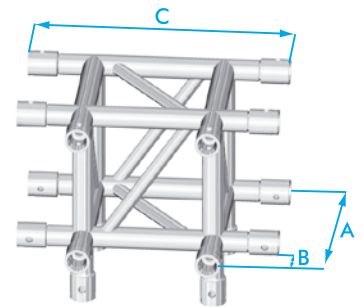
S36R - C017



S36V - C003



S36V - C012

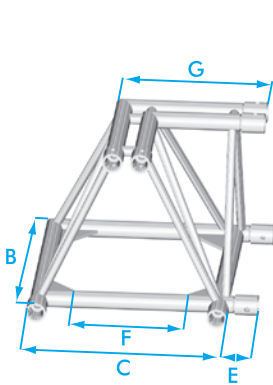


S36V - C020

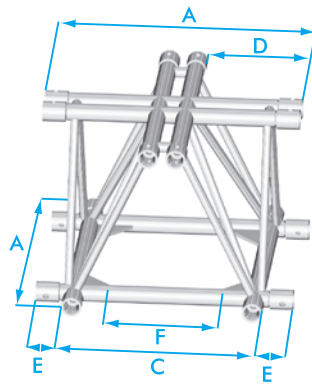
STANDARD CORNERS S36 SERIES

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

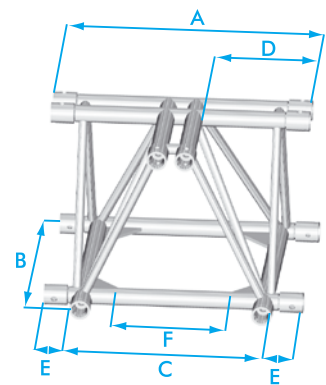
STANDARD CORNERS S52



C003



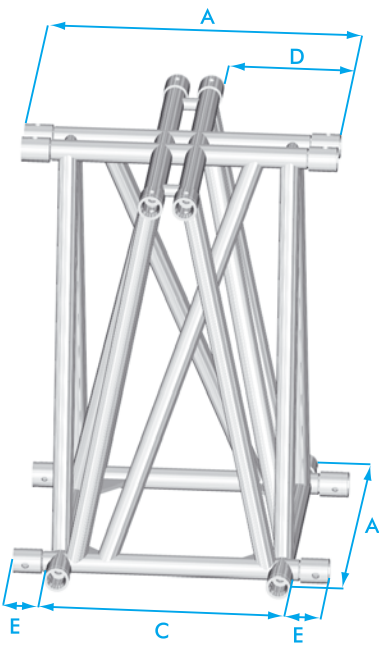
C016



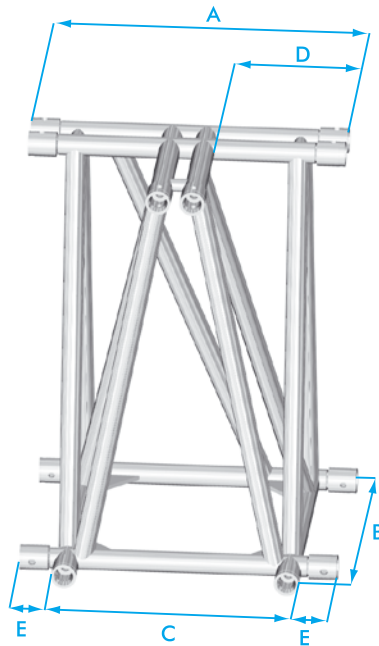
C017

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

STANDARD CORNERS S100F



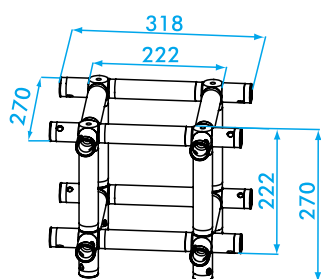
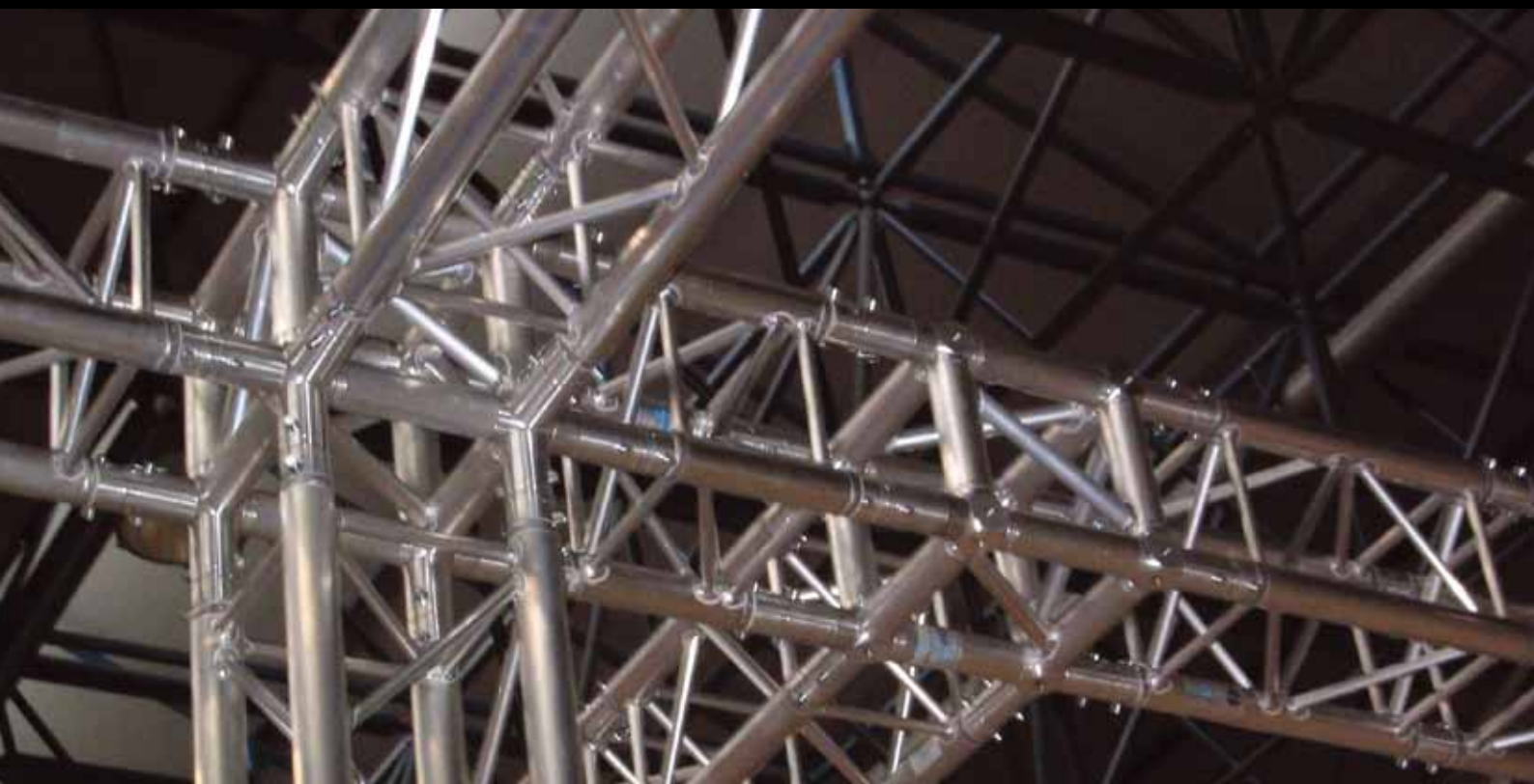
C016



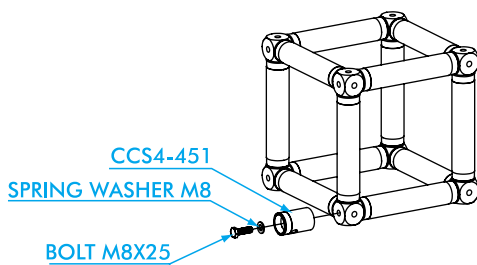
C017

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

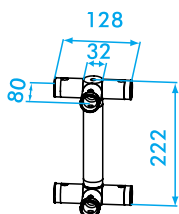
BOX CORNERS



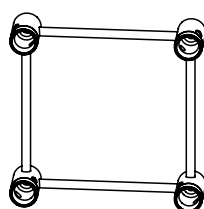
BOX-20V
Box corner for E20V truss. Measurements.



BOX-20V
Assembly.



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



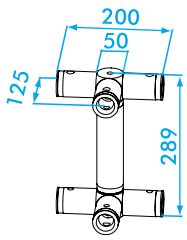
BOX-20V
Box-corner attachment, pre-assembled couplers.

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 | 1m = 3.28 ft | 1 lbs = 0,453 kg | 1 daN = 10 N ~ 1 kg

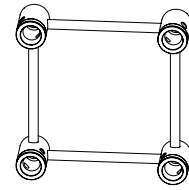
BOX CORNER 30V



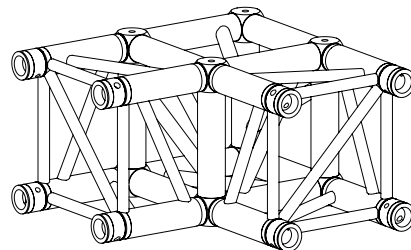
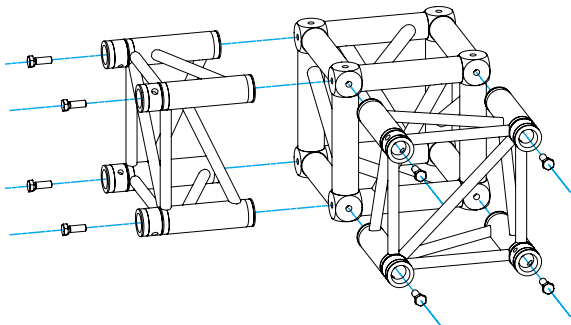
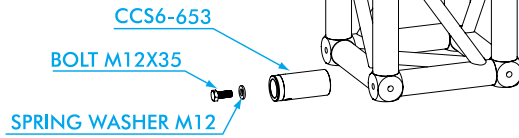
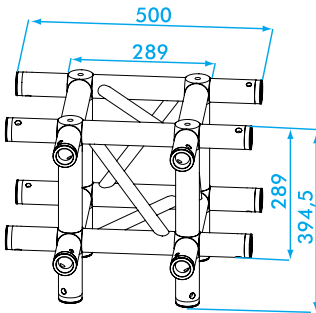
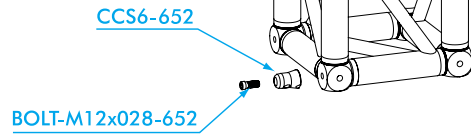
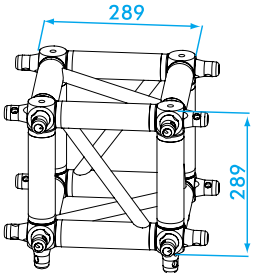
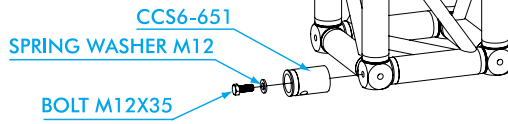
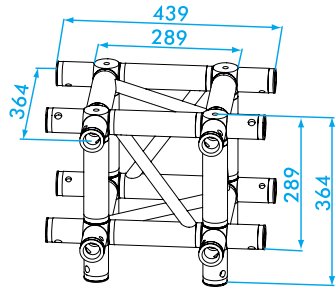
BOX-30L
Ladder box corner for X•H30 truss. Measurements.



BOX-30V
Mounting kit. Kit for fixation and assembly. CCS6-651 to box 30V



BOX-30V-ATT
Boxcorner attachment, pre- assembled couplers.



BOX-30V
Box corner for X•H30V truss. Measurements.

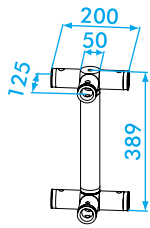
BOX-30V
Assembly.

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	CCS6-651 CCS6-652 CCS6-653	M12x35 BM12x028-652 M12x35	M12

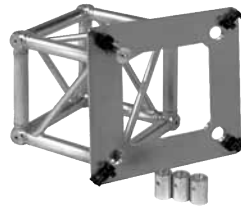
1 inch = 25,4 mm | 1 m = 3.28 ft | 1 lbs = 0,453 kg | 1 daN = 10 N ~ 1 kg

BOX CORNER 40V



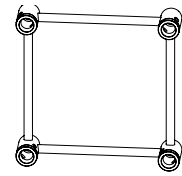
BOX-40L

Ladder box corner for H40 truss. Measurements.



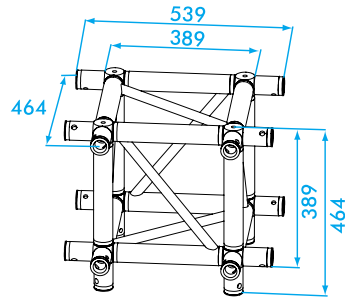
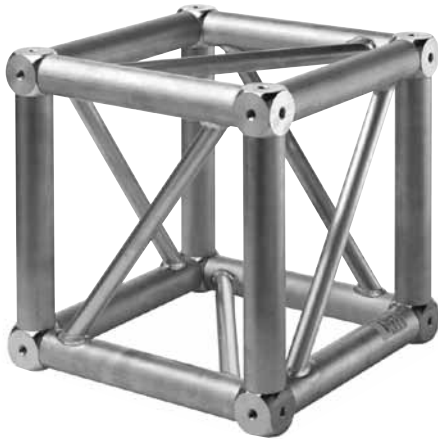
BOX-40V

Mounting kit. Kit for fixation and assembly. CCS6-651 to box 40V

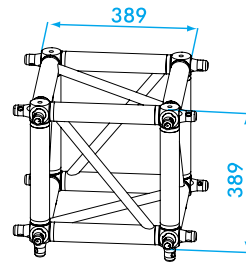
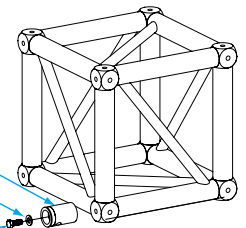


BOX-40V-ATT

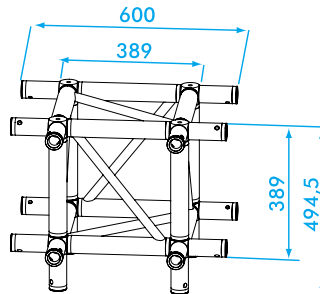
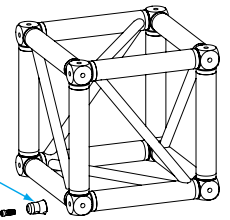
Boxcorner attachment, pre- assembled couplers.



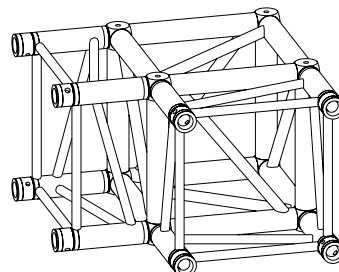
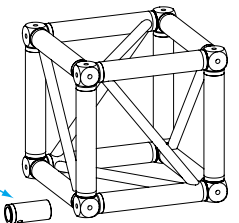
CCS6-651
SPRING WASHER M12
BOLT M12X35



CCS6-652
BOLT M12X028-652

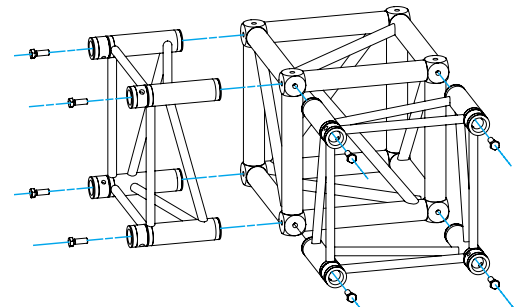


CCS6-653
BOLT M12X35
SPRING WASHER M12



BOX-40V

Box corner for H40V truss. Measurements.



BOX-40V

Assembly.

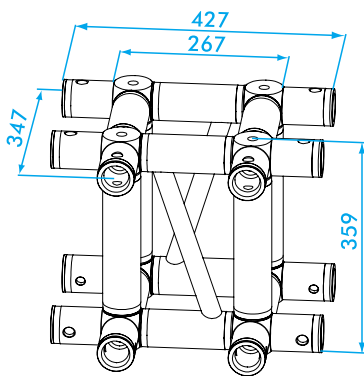
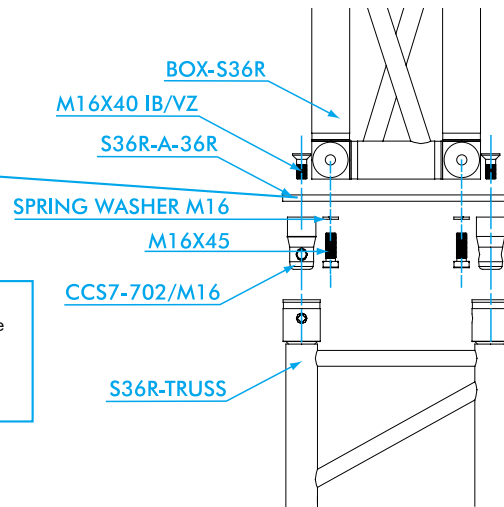
TECHNICAL SPECIFICATIONS 40V BOX CORNERS

	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 CCS6-652 CCS6-653	M12x35 BM12x028-652 M12x35	M12

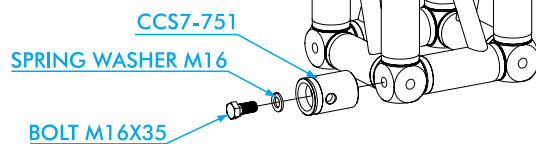
1 inch = 25,4 mm | 1 m = 3.28 ft | 1 lbs = 0,453 kg | 1 daN = 10 N ~ 1 kg

BOX CORNERS S36

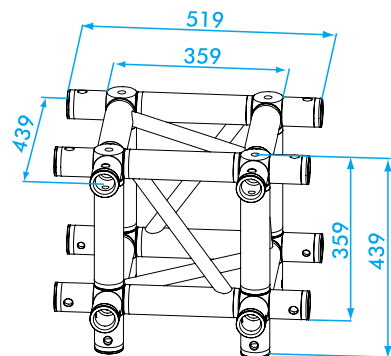
ADAPTER S36R
 Also available for a symmetrical setup with female couplers or an asymmetrical setup with female couplers. Drawing available on request or on www.prolyte.com.



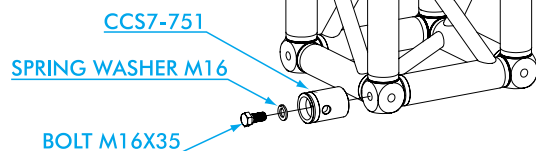
BOX-36R
 Box corner for S36R truss.



BOX-36R
 Assembly.



BOX-36V
 Box corner for S36V truss.



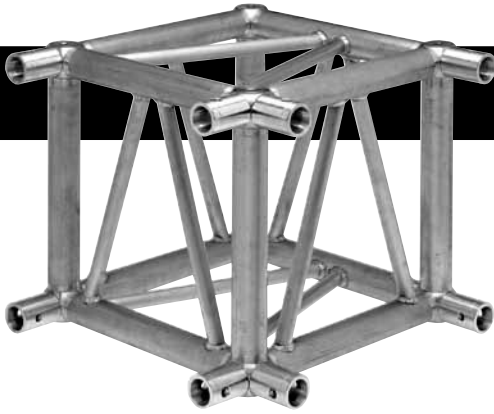
BOX-36V
 Assembly.



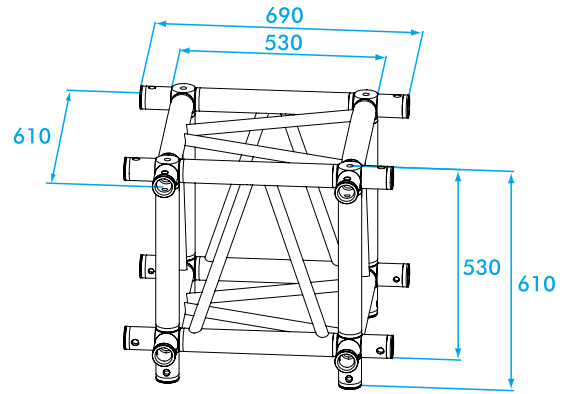
TECHNICAL SPECIFICATIONS S36 BOX CORNERS

	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

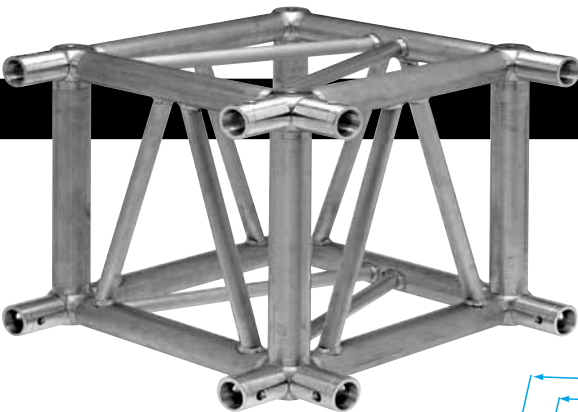


BOX-52V
Box corner for S52V/SV truss.

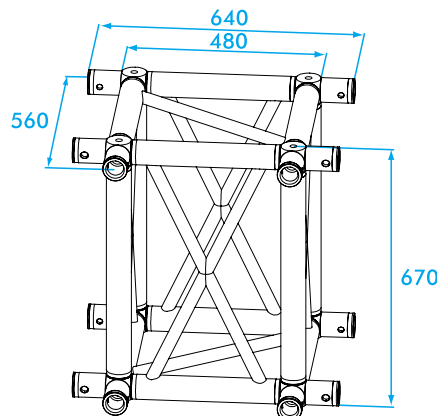
TECHNICAL SPECIFICATIONS S52 BOX CORNERS

	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

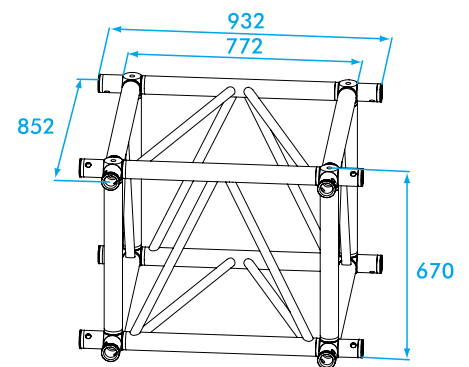
1 inch = 25,4 mm | 1m = 3.28 ft | 1 lbs = 0,453 kg | 1 daN = 10 N ~ 1 kg



BOX CORNER S66



BOX-66R
Box corner for S66R truss.



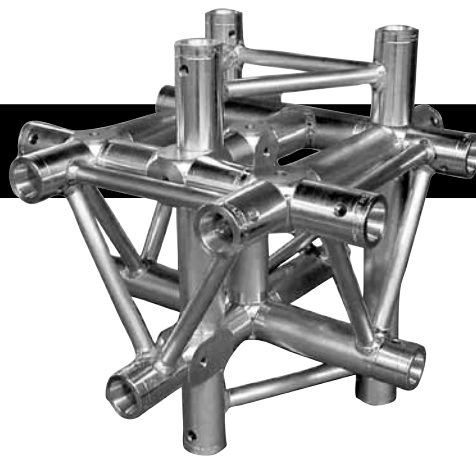
BOX-66V
Box corner for S66V truss.

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

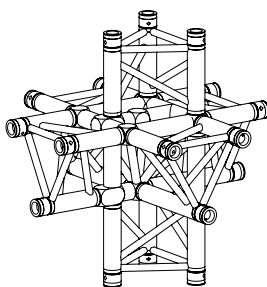
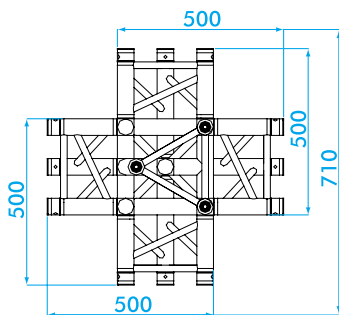
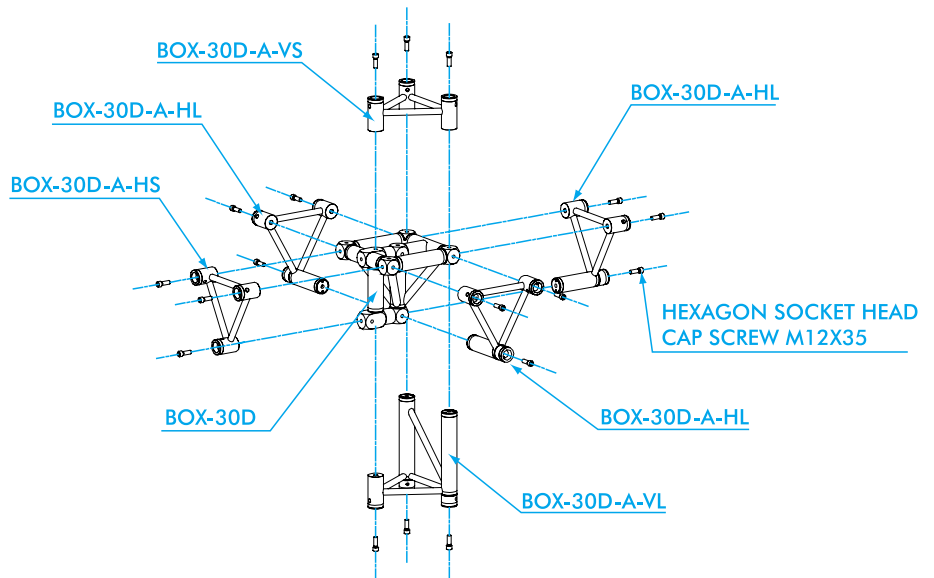
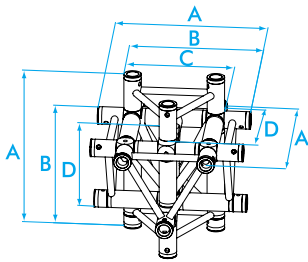
1 inch = 25,4 mm | 1m = 3.28 ft | 1 lbs = 0,453 kg | 1 daN = 10 N ~ 1 kg

TRIANGULAR BOX CORNERS

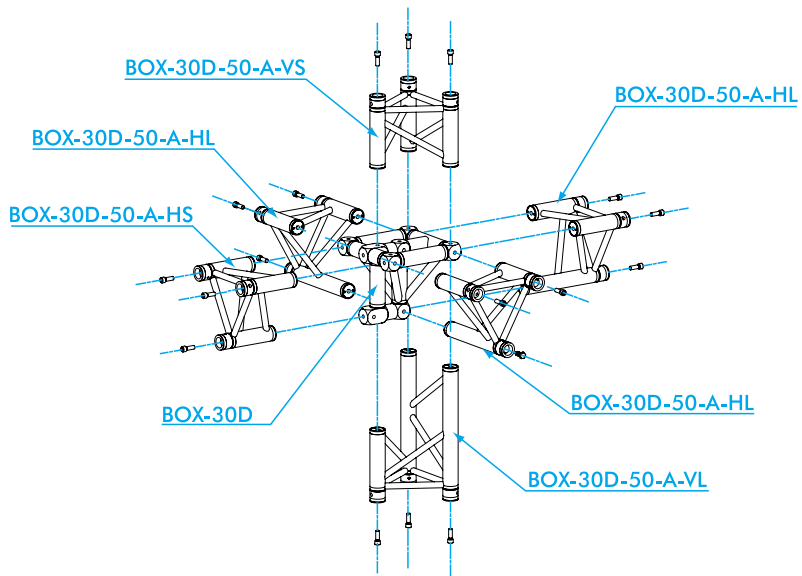


TRIANGULAR BOX CORNERS

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



Standard parts



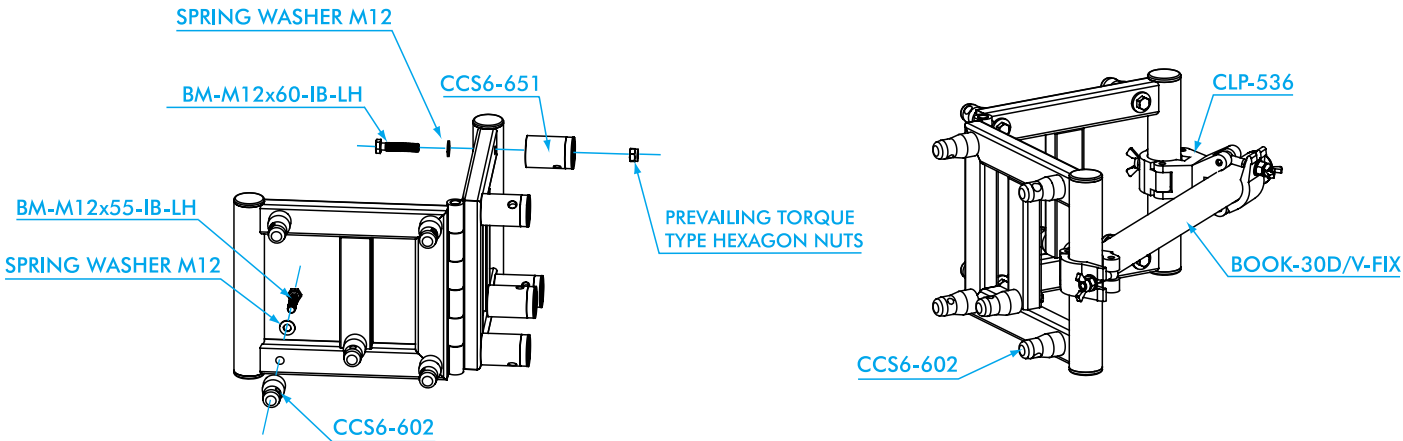
Elongated parts. Box corners can be used in combination with standard corners.

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

1 inch = 25,4 mm | 1 m = 3.28 ft | 1 lbs = 0,453 kg | 1 daN = 10 N ~ 1 kg

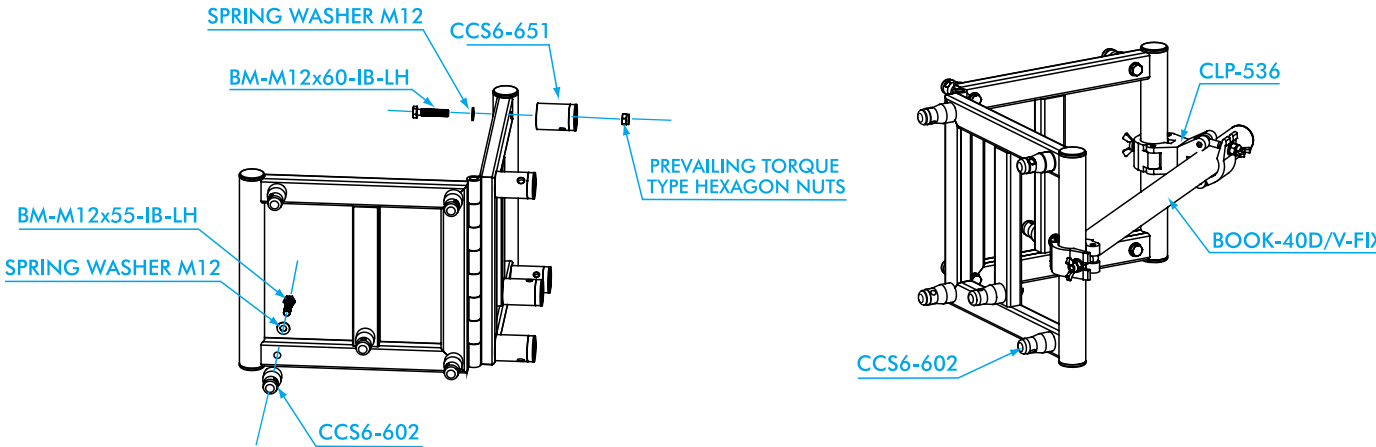
BOOK CORNER 30D/V



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 1m = 3.28 ft 1 lbs = 0,453 kg 1 daN = 10 N ~ 1 kg								

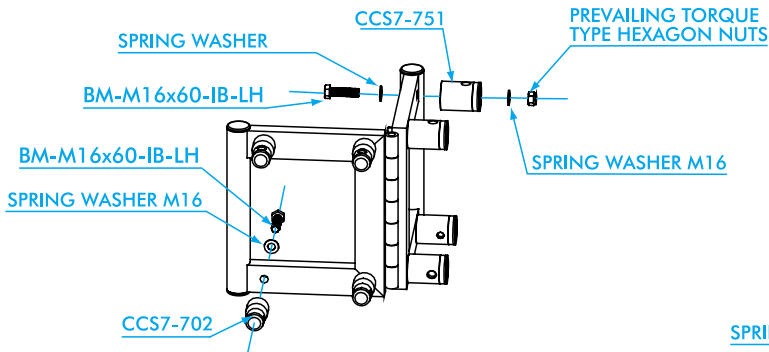
BOOK CORNER 40D/V



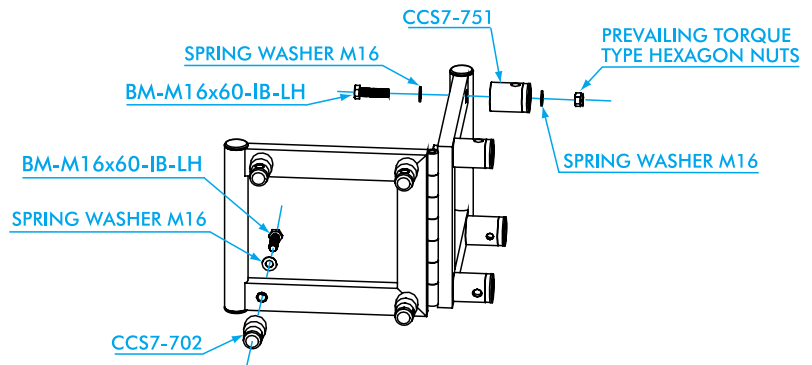
TECHNICAL SPECIFICATIONS BOOK CORNERS 40D/V

	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 1m = 3.28 ft 1 lbs = 0,453 kg 1 daN = 10 N ~ 1 kg								

BOOK CORNER 36R/V



Book corner 36R



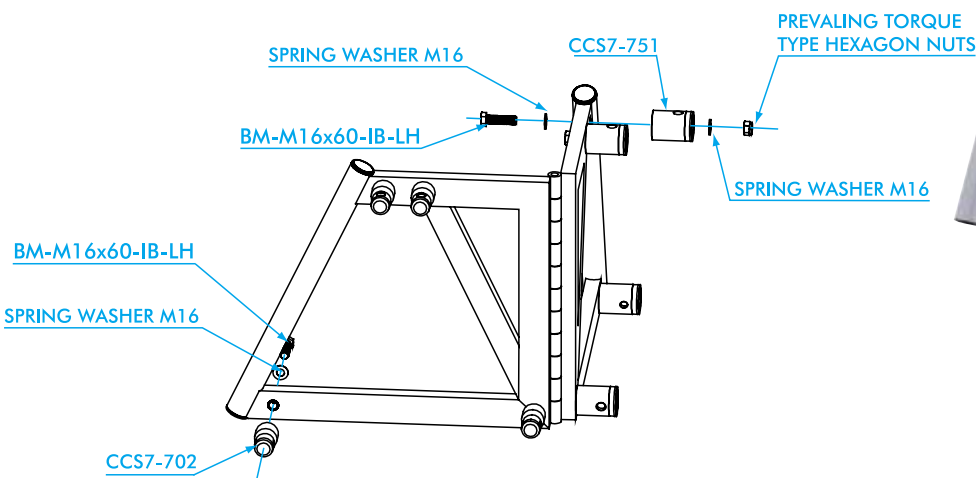
Book corner 36V

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 | 1 m = 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 | 1 m = 3.28 ft | 1 lbs = 0,453 kg | 1 daN = 10 N ~ 1 kg

FITTINGS



© Prolyte Sales BV. Omke Oudeman

When Prolyte designed the original Conical Coupling System (CCS®), it constituted a huge step forward in the development of truss systems. Even today, the now much-copied Conical Coupling System is unrivalled in efficiency, strength and ease 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. A variety of specials is also available.

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

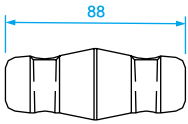

Weight = 0,070 - 0,170 kg
X = 5 mm to 50 mm in steps of 5 mm

BASE 20D
Baseplate for E20D truss

Weight = 0,740 kg

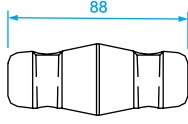

BASE 20V
Baseplate for E20V truss

Weight = 1,170 kg

CCS6-600
Conical coupler

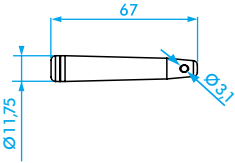

Weight = 0,148 kg

The Prolyte Hybrid Coupler® is TUV approved.
The Prolyte Hybrid coupler is patented.

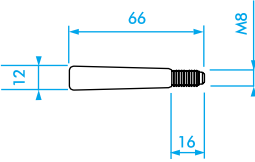

CCS6-600-H
Hybrid coupler, standard in Prolyte blue

Weight = 0,160 kg


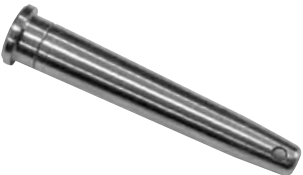
CCS6-603
Spigot

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

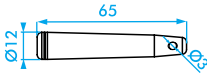
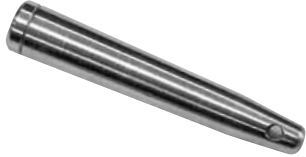
CCS6-604
Spigot with thread M8
CCS6-604RF (stainless steel)

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

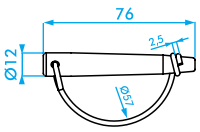

CCS6-606
Spigot with collar for easy retraction with truss tool

Weight = 0,041 kg

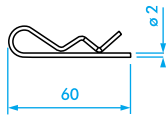

CCS6-607
Spigot with reduced length

Weight = 0,088 kg

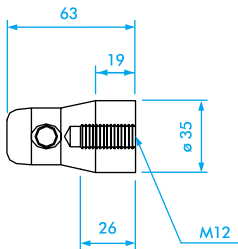

CCS6-608
Spigot with clip, no R-spring needed

Weight = 0,057 kg

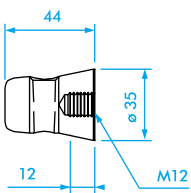

CCS6-605
Safety R-spring

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

FITTINGS CCS6

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
(minimum of 2 mm)

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

CCS6-653
Female conical coupler

Weight = 0,360 kg
With 12,5 mm hole for bolts M12

CCS6-H

Weight = 0,590 kg
Hinge for MPT Tower or ST Tower, 4 hinges per tower needed. See Black Book "Technical Matters" for the use of hinges in different set-ups.

BASE 30D
Baseplate for X•H30D truss

Weight = 1,160 kg

BASE 30V
Baseplate for X•H30V truss

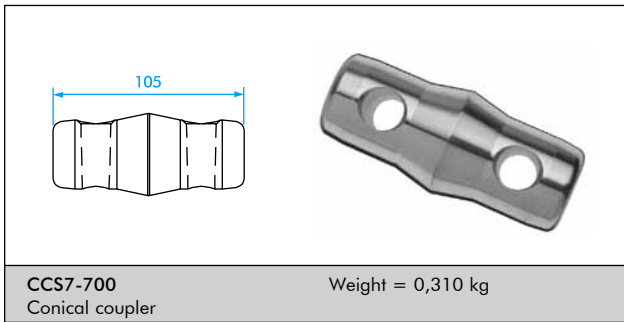
Weight = 1,860 kg

BASE 40D
Baseplate for H40D truss

Weight = 2,700 kg

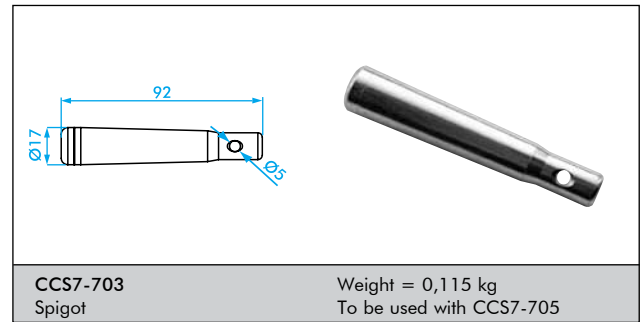
BASE 40V
Baseplate for H40V truss

Weight = 2,820 kg



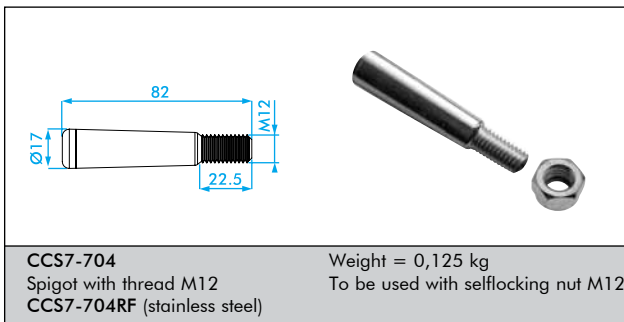
CCS7-700
Conical coupler

Weight = 0,310 kg



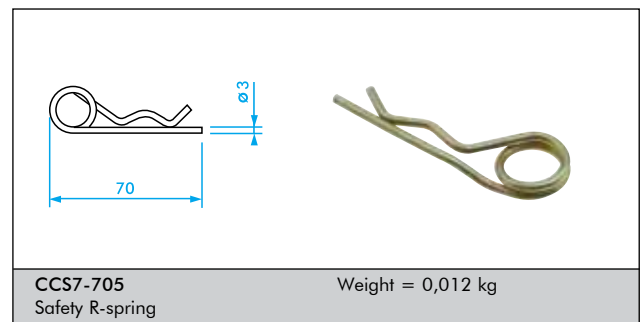
CCS7-703
Spigot

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



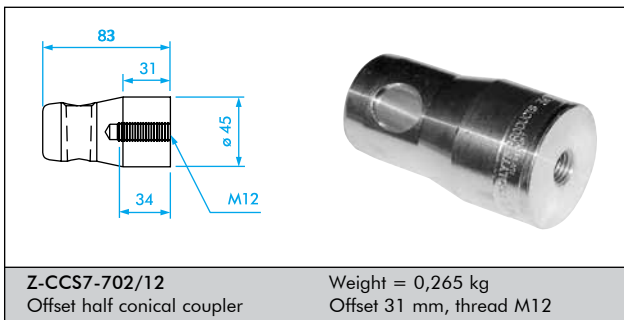
CCS7-704
Spigot with thread M12
CCS7-704RF (stainless steel)

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



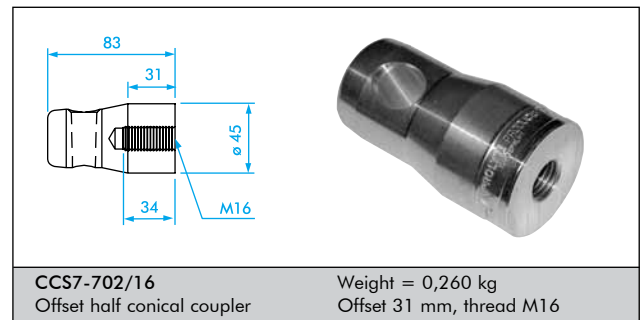
CCS7-705
Safety R-spring

Weight = 0,012 kg



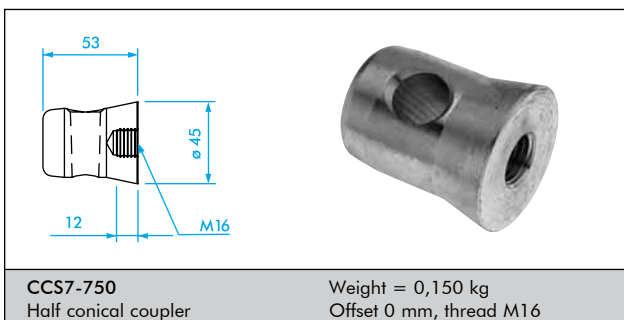
Z-CCS7-702/12
Offset half conical coupler

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



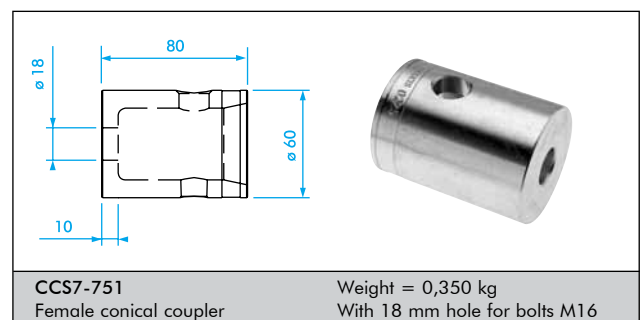
CCS7-702/16
Offset half conical coupler

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



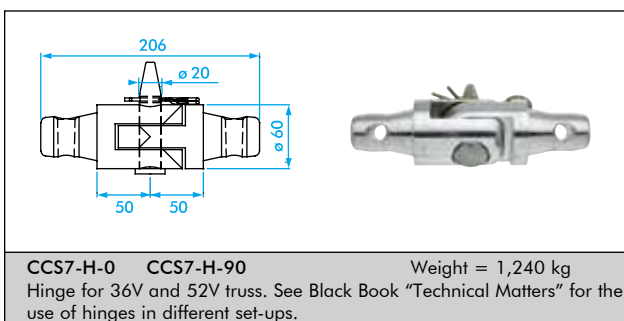
CCS7-750
Half conical coupler

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



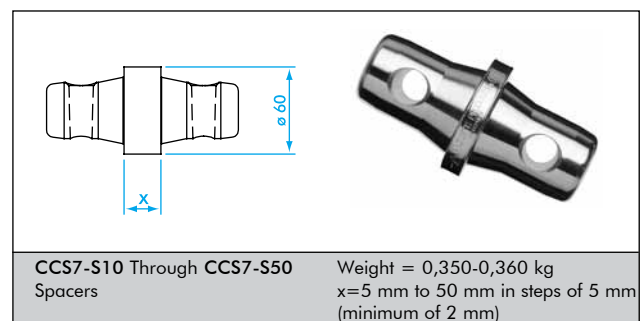
CCS7-751
Female conical coupler

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



CCS7-H-0 CCS7-H-90
Hinge for 36V and 52V truss. See Black Book "Technical Matters" 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=5 mm to 50 mm in steps of 5 mm
(minimum of 2 mm)

FITTINGS CCS7

BASE 36V
Baseplate for 36V truss

Weight = 1,160 kg

BASE 36R
Baseplate for 36R truss

Weight = 1,860 kg

BASE 52V
Baseplate for 52V truss

Weight = 2,700 kg

CCS7-H-FM-BOLT

Weight = 0,326 kg

ACCESSORIES



Photo: Rombouts Showequipment BV, The Netherlands

Polyte Accessories are a range of additional products that can be used in combination with a Polyte truss series or other complementary products. This brochure presents a selection of accessories that might be helpful in the assembly or setting up of your truss constructions.

We hope that these products can facilitate your work.

These different products have one thing in common: they have been developed to enable better use to be made of all the possibilities that your Polyte truss system offers.

All Polyte accessories are designed and manufactured according to the highest possible standards, regulations and, where applicable, TUV approvals.

Polyte accessories are divided into four categories: clamps, followspot chairs, exhibition products and rigging hardware.

CLAMPS

SVWL = Safe Vertical Working Load

CLP-425
Hook clamp (30-32 mm)
Weight = 0,210 kg
SVWL 15 kg

CLP-525
Hook clamp (48-51 mm)
Weight = 0,280 kg
SVWL 40 kg

CLP-527
Hook clamp (48-51 mm)
Weight = 0,375 kg
SVWL 40 kg

CLP-435
Clamp (30-32 mm)
Weight = 0,080 kg
SVWL 100 kg

CLP-436
Swivel clamp (30-32 mm)
Weight = 0,170 kg
SVWL 100 kg

CLP-535
Clamp (48-51 mm)
Weight = 0,630 kg
SVWL 750 kg
Also available in CLP-535L and CLP-535SL

CLP-545
Clamp (48-51 mm)
Weight = 0,410 kg
SVWL 750 kg

CLP-536
Swivel clamp (48-51 mm)
Weight = 1,340 kg
SVWL 750 kg

CLP-537
Clamp (48-51 mm) With eye-nut M12
Weight = 0,830 kg
SVWL 340 kg

CLP-541
Pivot hinge clamp (48-51 mm)
Weight = 1,88 kg
SVWL N/A

CLP-587
Side entry clamp (48-51 mm)

Weight = 0,570 kg
SVWL 750 kg

CLP-588
Side entry clamp (48-51 mm)

Weight = 0,370 kg
SVWL 750 kg

CLP-589
Trigger clamp (48-51 mm)

Weight = 0,490 kg
SVWL 200 kg

CLP-528
Quick release claw (51 mm)
with extensible CCS6

Weight = 0,830 kg
Max. allowable load 35 kg
Working length 200-225 mm

CLP-528L
Quick release claw (51 mm)
with extensible CCS6

Weight = 0,980 kg
Max. allowable load 30 kg
Working length 320-345 mm

CLP-529
Clamp (48-51 mm)
with extensible CCS6

Weight = 1,060 kg
Max. allowable load 40 kg
Working length 200-225 mm

CLP-529L
Clamp (48-51 mm)
with extensible CCS6

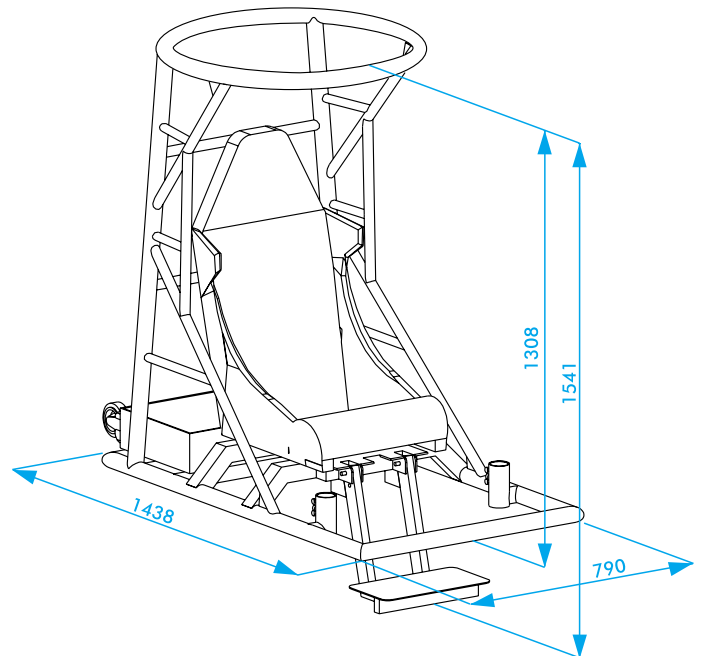
Weight = 1,210 kg
Max. allowable load 35 kg
Working length 320-345 mm

CLP-635
Clamp (60 mm)

CLP-636
Swivel clamp (60 mm), SVWL 500 kg

FOLLOWSPOT CHAIR

Photo : Rombouts Showequipment BV, The Netherlands
Project : Love letters



ACC-FFS-1

Followspot chair



ACC-521
Truss Dolly



ACC-515
Truss carrier for 30 series truss



ACC-525
Truss carrier for 30D Truss



ACC-520
Truss Butler



Truss Butler®

The Truss Butler® is an ideal aid for the transportation and assembly of truss. You can assemble and wire your truss at an ideal working height.

No more lifting

After having transported your truss with the butlers, you can further use them for the assembly of your truss. Simply put your truss on top of a Truss butler® to connect the truss.

Each next segment will be attached while the butler is moved easily along underneath the truss.

Truss Butler® specifications:

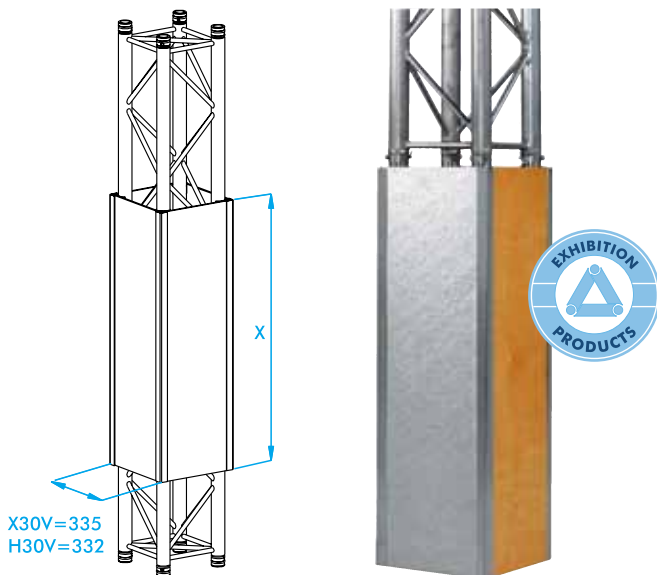
- Loading capacity of 250 kg
- Suitable for any type of ratchet strap
- No loose parts
- Spring loaded secured beams
- Self weight; 25kg

EXHIBITION

Photo : Prolyte Sales BV
Project : Prolight + Sound, Frankfurt



ACC-COV-050-X/H	Weight = 0,30kg
ACC-COV-100-X/H	Weight = 0,58kg
ACC-COV-200-X/H	Weight = 1,16kg
ACC-COV-300-X/H	Weight = 1,74kg

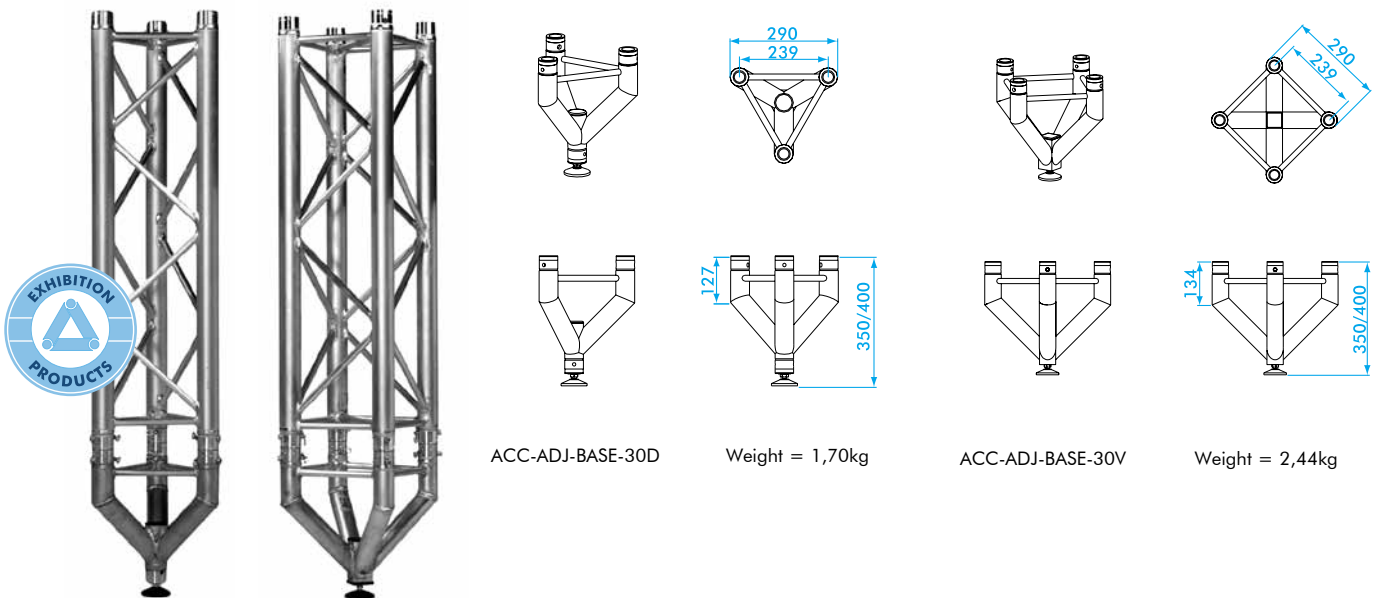


COVER UP

The Prolyte Cover Up system allows you to use truss as a structural element and as the basis of your integrated stand design at the same time. The Cover Up is a corner profile element that can easily be mounted to all square trusses from the Prolyte X&H truss series. Once the profiles have been placed, the panels can be slid through the profiles, thus simply hiding the truss behind them.

Cover Up profiles are available in lengths of: 50 cm, 100 cm, 200 cm and 300 cm. Four pieces per truss should be ordered. Maximum panel thickness: 10 mm.





ACC-ADJ-BASE-30D

Weight = 1,70kg

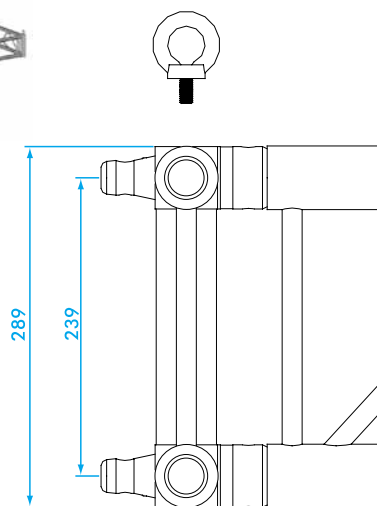
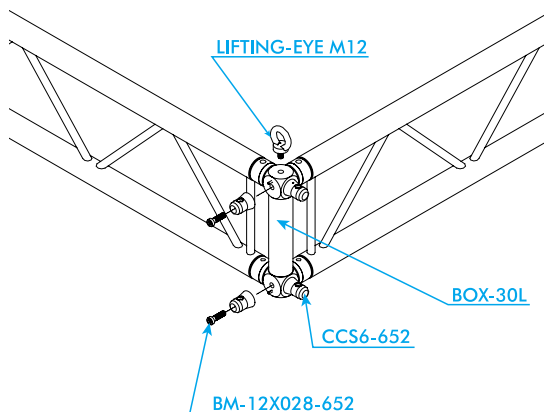
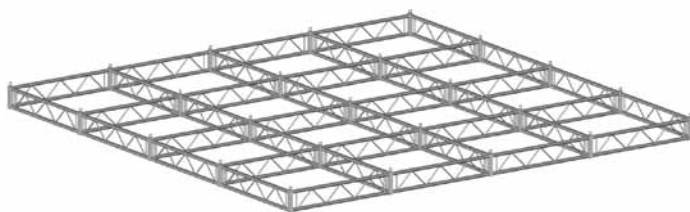
ACC-ADJ-BASE-30V

Weight = 2,44kg

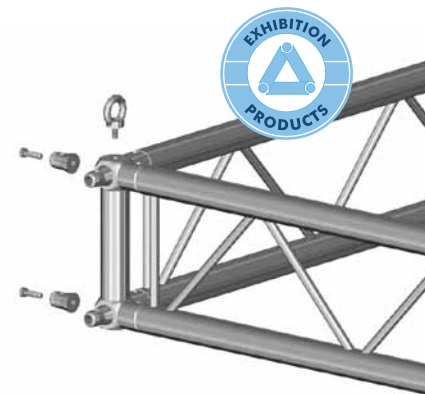
PEDESTAL

The adjustable Pedestal combines practical solutions with designer looks. This element enables you to bridge height differences to a maximum of 50 mm, which is enough to cover any uneven floor.

The Pedestal is designed for the E and X&H truss series.
Total Pedestal height: min.: 350 mm, max.: 400 mm.
Maximum load: 200 kg.



BOX-30L-0 Weight = 1,15kg
BOX-40L-0 Weight = 1,95kg

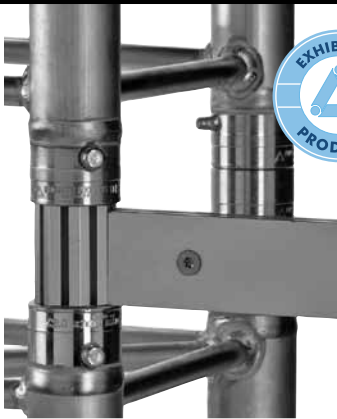


MATRIX FRAME

Based on single box corner ribs and ladder truss from the complete Prolyte truss range, you can build frames of any desired dimension.
The result is the so-called Matrix Frame, a flexible and easy solution with many application possibilities.

It can be used in a horizontal as well as a vertical plane. With additional lifting eyes a hoisting point can be bolted to each junction. The high loading capacity of the junction ensures considerable advantages in terms of the overall capacity of your grid.

EXHIBITION

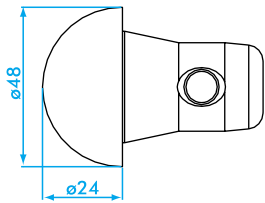


ACC-A-OCT-0050 Weight = 0,22kg
ACC-A-OCT-0075 Weight = 0,24kg

EXHIBITION ADAPTER

The Prolyte Exhibition Adapter makes it possible to combine any truss structure with common exhibition systems. The horizontal supports of these octagonal extruded exhibition

systems can be attached to your truss construction by means of this adapter. The exhibition adapter is available in lengths of 50 mm and 75 mm. It can only be used in a vertical direction.

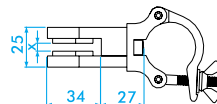
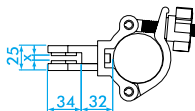
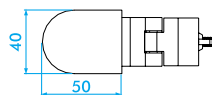
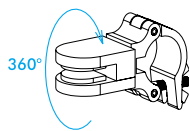
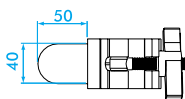
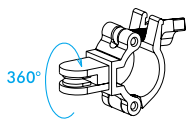


ACC-512 Weight = 0,15kg



END CAP

The aluminium End Cap will give your truss parts a "finished" and highly aesthetic look. The End Cap is based on the CCS6 system and is available for all X&H series truss.



CLP-535SL-RPC Weight = 0,63kg
CLP-535SL-FPC Weight = 0,63kg

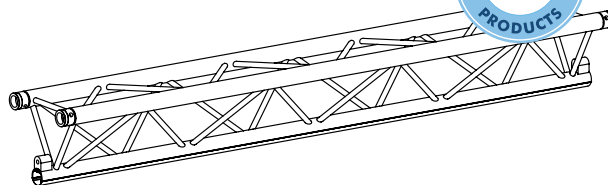
CLP-435-RPC Weight = 0,25kg



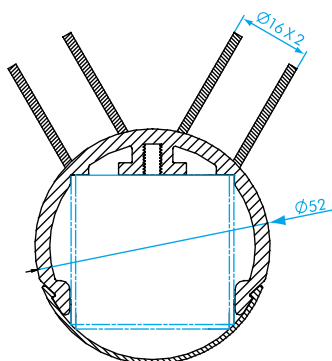
PANEL CLAMPS

Prolyte Panel Clamps are suitable for attaching panels or pictures to the trusses in any desired position. To be able to obtain different angles, the aluminium clamps are fully adjustable.

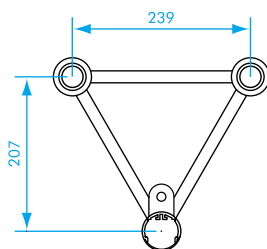
The clamps are able to hold different materials up to a thickness of 6 to 10 mm.



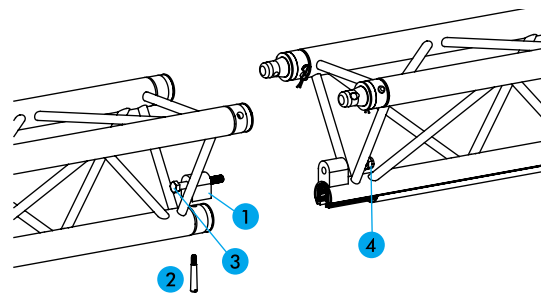
CT-X30D



Cross section with measurements for the fitting of the circuit track.



Cross section with measurements.



Coupling of CT truss to a regular X30D truss with the special adapter.

CIRCUIT TRACK TRUSS

Based on the standard X30D truss, Prolyte has designed a truss which is capable of holding any type of existing circuit track.

Any circuit track can easily be integrated in the special lower tube of the circuit track truss. The lower tube opens to mount the circuit track. After the circuit track is mounted, the lid can be replaced to cover and protect the track.

When the circuit track is needed, the lid on the lower tube can easily be opened to give access to the track. The track is suitable for Erco, Hoffmeister, Staff, Targetti, Eutrac and ASS circuit tracks.

A special adapter on the lower tube makes it possible to connect the circuit track truss to regular X30D truss, thereby integrating the circuit track into your complete truss structure.

The adapter is mounted to the truss with a special spigot pin, after which the connection is closed with the connection is closed with a hexagon socket screw (M12 x 100).

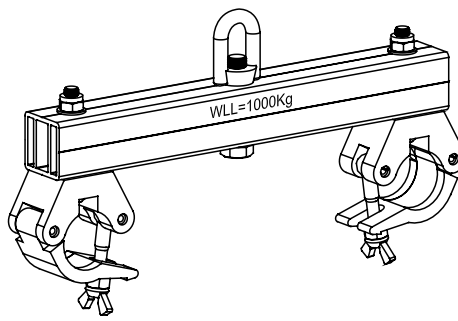
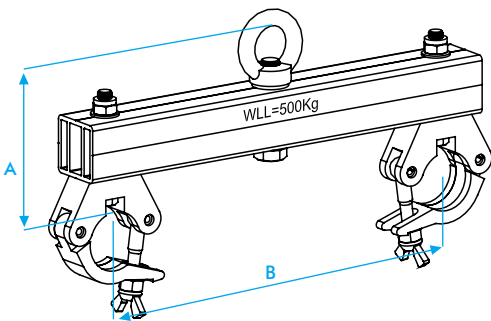
1. Adaptor CT-30D-CON
2. Special spigot CT-CCS6-604
3. Bolt BM-M12x100-IB
4. Nut BM-M12-N

ALLOWABLE LOADING CIRCUIT TRACK TRUSS													
SPAN		UNIFORMLY DISTRIBUTED LOAD				MAXIMUM ALLOWABLE POINT LOADS							
		UDL		DEFLECTION		CPL		TPL		QPL		FPL	
m	ft	kg/m	lbs/ft	mm	inch	kg	lbs	kg	lbs	kg	lbs	kg	lbs
4	13.1	66.6	44.6	13	0.51	133,2	293.0	99,9	219.8	66,6	146.5	55,4	121.8
5	16.4	42,6	28.5	21	0.83	106,5	234.3	79,9	175.7	53,2	117.0	44,3	97.4
6	19.7	29,7	19.9	30	1.18	89,1	196.3	66,8	146.9	44,6	98.1	37,0	81.4
7	23.0	21,6	14.4	41	1.61	75,6	166.3	56,7	124.7	37,8	83.1	31,4	69.0
8	26.2	16,5	11.1	53	2.09	66,0	145.2	49,5	108.9	33,0	72.6	27,4	62.3
9	29.5	12,9	8.6	67	2.64	58,2	128.0	43,7	96.1	29,1	64.0	24,2	52.2
10	32.8	10,5	7.0	83	3.27	52,5	115.5	39,4	86.6	26,3	57.8	21,8	47.9
11	36.1	8,7	5.8	100	3.94	48,0	105.6	36,0	79.2	25,0	55.0	19,9	43.7
12	39.4	7,2	4.8	118	4.65	43,2	95.0	32,4	71.2	21,6	47.5	17,9	39.3

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

RIGGING HARDWARE

LIFTING BRACKET



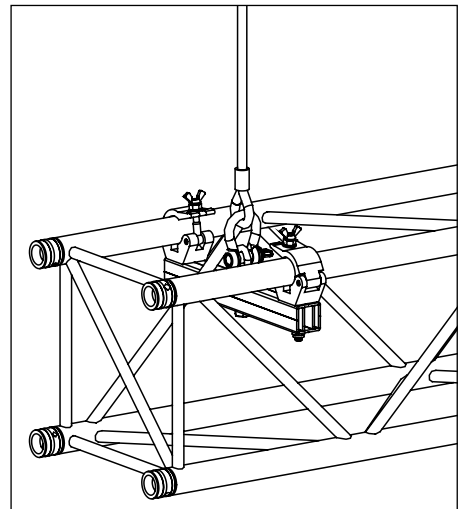
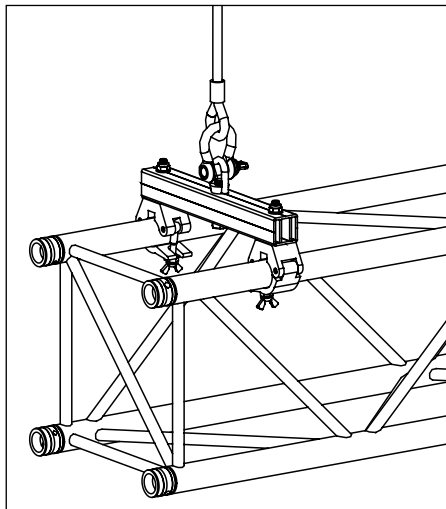
ACC-40D/V-LIFT
lifting bracket WLL 500kg

ACC-40D/V-LIFT
lifting bracket WLL 1000kg

Prolyte lifting brackets are the ideal solutions for permanent or semi-permanent installations, where the suspension point must be reliable, stable and part of the overall truss design. The lifting brackets are made of a special extruded aluminium profile. Prolyte has two types of lifting brackets in several sizes to mount on your truss: the WLL 500 kg or 1000 kg.

The lifting eye is limiting the load bearing capacity. The lifting bracket can also be mounted on the bottom chords of the truss by simply bolting the lifting eye at the other side of the profile. For proper use of brackets and lifting eyes, please refer to the Black Book "Technical Matters".

LIFTING BRACKET	mm	
	A	B
measurements		
ACC-20D/V-LIFT WLL 250 kg	106	190
ACC-30D/V-LIFT WLL 500 kg	134	239
ACC-30D/V-LIFT WLL 1000 kg	134	239
ACC-40D/V-LIFT WLL 500 kg	134	339
ACC-40D/V-LIFT WLL 1000 kg	134	339
ACC-36R-LIFT WLL 500 kg	134	207
ACC-36R-LIFT WLL 1000 kg	134	207
ACC-36V-LIFT WLL 500 kg	134	299
ACC-36V-LIFT WLL 1000 kg	134	299
ACC-52V/SV-LIFT WLL 1000 kg	134	470



RIGGING HARDWARE

STEEL WIRES WITH COVER



SW-08-100EE/C

Steel wire 8 mm L-100 eye/eye.
WLL 750 kg.
Also available in the following lengths:
L150, L200, L250, L300, L500, L750



SW-10-100EE/C

Steel wire 10 mm L-100 eye/eye.
WLL 1000 kg.
Also available in the following lengths:
L150, L200, L250, L300, L500, L750



SW-13-100EE/C

Steel wire 13 mm L-100 eye/eye.
WLL 2400 kg.
Also available in the following lengths:
L150, L200, L250, L300, L500, L750

STEEL WIRES WITHOUT COVER



SW-10-150EE

Steel wire 10 mm L-150 eye/eye
WLL 1000 kg.
Also available in the following lengths:
L150, L200, L250, L300, L500, L750



SW-10-150EH

Steel wire 10 mm L-150 eye/eye with
hook WLL 1000 kg.
Also available in the following lengths:
L150, L200, L250, L300, L500, L750



SW-13-150EE

Steel wire 13 mm L-150 eye/eye
WLL 2400 kg.
Also available in the following lengths:
L150, L200, L250, L300, L500, L750



SW-13-150EH

Steel wire 13 mm L-150 eye/eye with
hook WLL 2400 kg.
Also available in the following lengths:
L150, L200, L250, L300, L500, L750

SHACKLES



RI-SH3,2T / RI-SH4,7T

shackles WLL 3,2 / 4,7 ton, bolt/nut



RI-O-RING-3T

Top ring WLL 3 ton



BM-M12-EB

Lifting eye for triangular box corner

RIGGING HARDWARE

ROUND SLINGS



RS-1T-100 / RS-2T-100 / RS-3T-100
 roundsling L100, WLL 1000 kg, 2000 kg, 3000 kg.
 Available in different lengths.
 All round slings have a black cover.

SOFT STEEL



SS-2T-100
 soft steel L100, WLL 2000 kg.
 Also available in the following lengths:
 L050, L100, L200, L300



BGV-C1 Approval

All Soft steels have a black cover.
 No redundant safety needed.

CHAIN CLUTCHES



CH-07-150CHH
 Shortening chain WL 1,5m, WLL 1,5 ton



CH-07-200HCSH
 Shortening chain WL 2m, WLL 1,5 ton



CH-10-200CRH
 Shortening chain WL 2m, WLL 3 ton

HAMMER



TOOL-HAM-500 / TOOL-HAM-750
 copper hammer

RATCHETS



RA-2T-200HH
 ratchet L200, WLL 2000 kg (hook-hook)
 Also available in the following lengths:
 L400, L600, L750, L1100

RA-5T-200HH
 ratchet L200, WLL 5000 kg (hook-hook)
 Also available in the following lengths:
 L400, L600, L750, L1100



RA-1T-150OE
 ratchet L150, WLL 1000 kg (open end)
 Also available in the following lengths:
 L400, L600, L750, L1100

All ratchets are black.

TOWERS



© PROLYTE SALES BV

System characteristics

The Prolyte tower systems consist of four types of rigging towers and the MPT, ST and CT ground support systems. All tower systems are based on standard Prolyte truss. Extending your stock towards more complex systems like towers or roofs works like a step-by-step, cost-efficient investment. You only need to buy the additional parts, like base or top sections. This offers flexibility and optimum economic use of your trusses.

Rigging towers

The rigging towers are designed as stand-alone towers to support PA clusters or audience lighting. Rigging towers are available in types ranging from 800 to 2300 kg in terms of allowable load, and from 7,60 m to 16 m as regards lifting height. Rigging towers can be built on any even surface and are specially designed for outdoor use.

Ground support towers

The ground support towers are designed to support a grid without having the need for suspension points. They can be used in a goalpost setup (two towers) or as ground support (three or more towers). The ground support towers are available in three types, the MPT Tower (to be used in combination with all trusses from the Multi-Purpose series), the ST tower (to be used in combination with all the trusses from the Heavy-Duty series) and the CT tower (to be used in combination with the B100RV and S100F truss). Ground support towers can be built on any even surface and are designed for indoor as well as outdoor use.

Coupling system

The RT-H30V, MPT and ST mast sections use the CCS6 system. The RT-36V, RT-S52SV, RT-B100RV and CT mast section use the CSS7 system. The Conical Coupling system allows fast, efficient and reliable coupling of your towers.

RT-H30V



Photo: Cazemier BV, The Netherlands



Photo: JSA, Russian Federation



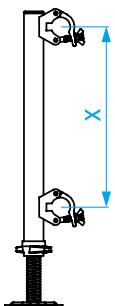
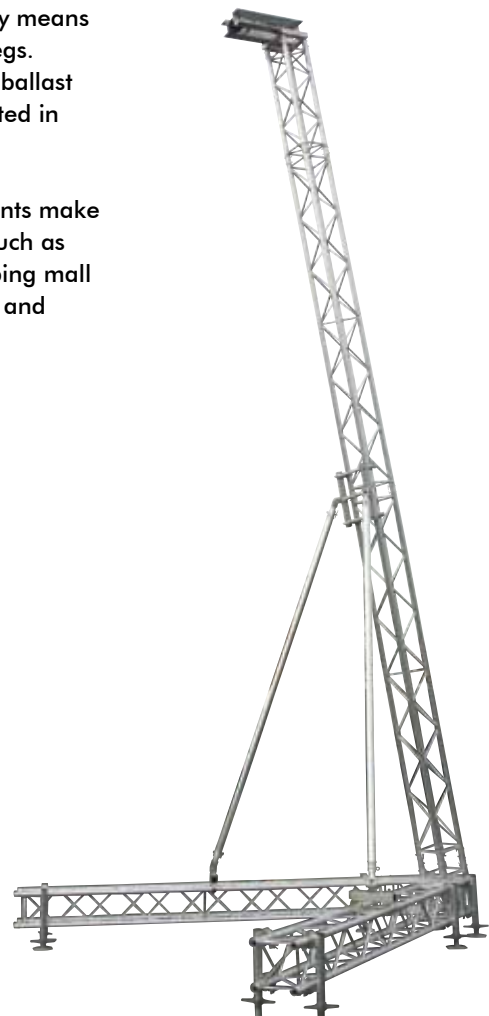
Photo: JSA, Russian Federation

The light-duty RT-H30V version has a loading capacity of 800 kg and a maximum lifting height of 7,60 m. The RT-H30V is based on H30V truss with stabilizers of 60 mm tube. It has a self-weight of 260 kg.

The legs of the V-shaped base can be levelled by means of screw jacks which are attached to the side of the legs. After the base is placed, the mast can be built and erected using the hinges on the base corner.

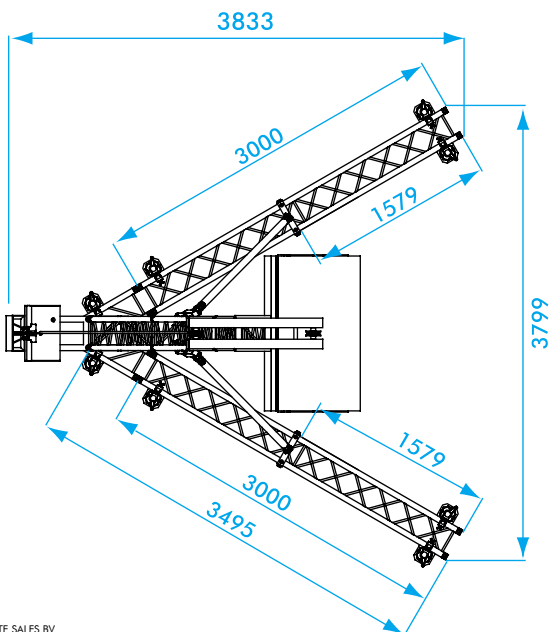
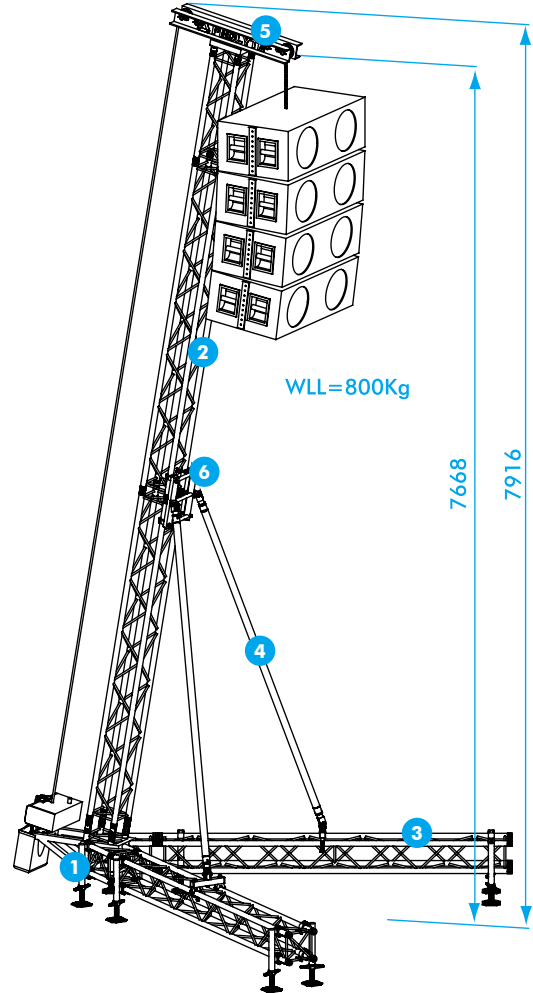
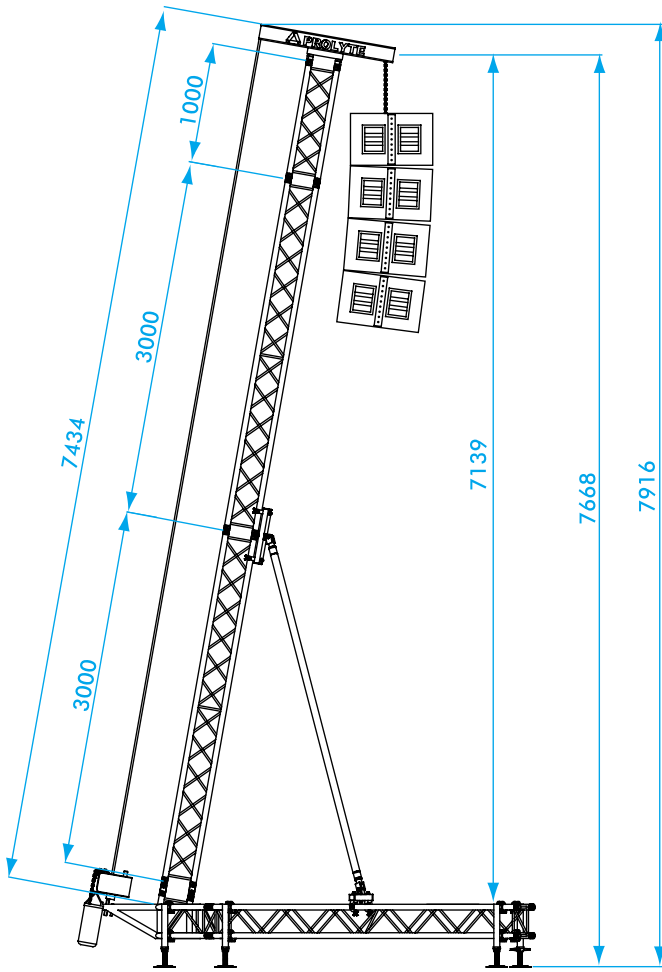
The mast should be stabilised by means of the braces, which fix to the legs. After the system is levelled and ballast is applied, the load can be hoisted in position.

The relatively small measurements make it suitable for all applications, such as outdoor events, concerts, shopping mall entrance halls, exhibition areas and theme parks.



ACC-SPIN-ATT-30
spindle attachment 30 truss, x = 239 mm

ACC-SPIN-LAY/40
spindle to be ordered separately



LEGENDA

1	CORNER	RT-H30V-C003
2	MAST SECTION	H30V-L•••
3	LEG SECTION	H30V-L•••
4	STABILISER SECTION	TUBE 60 MM
5	TOP SECTION	RT-009H
6	MAST ATTACHMENT	RT-STAB-H30V-TOP

TECHNICAL SPECIFICATIONS RT-H30V-0,8T

max. overall height	7,92 m (other heights optional)
max lifting height	7,60 m
max. loading capacity	800 kg (1760 lbs)
max. surface front load	2,5 m ²
max. surface side load	1,25 m ²
truss sections	H30V
braces	60 mm
coupling system	CCS6 series
alloy alu parts	EN-AW 6082 T6
ballast	100 kg
max. windspeed	20,7 m/s (46.3 mph)
system weight	260 kg

RT-S36V



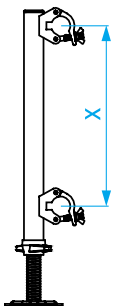
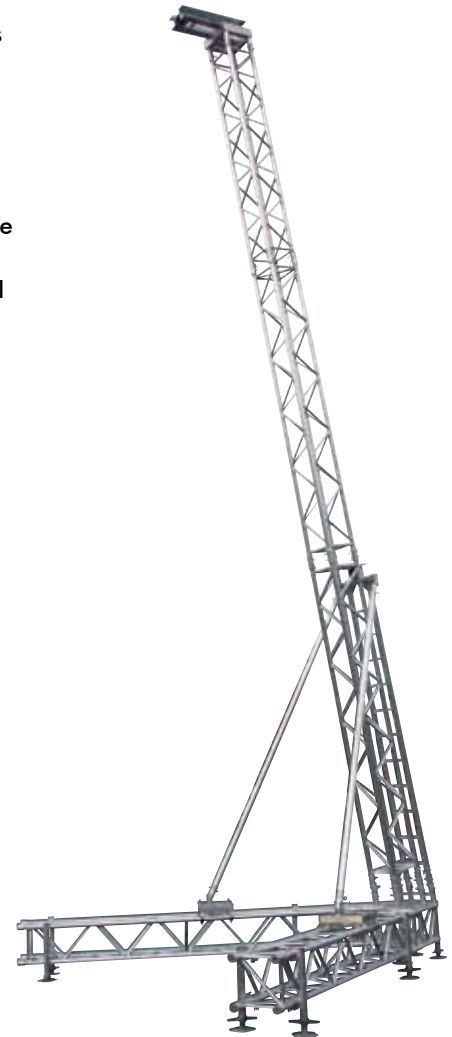
Photo: Prolyte Sales BV, The Netherlands

The medium-duty RT-S36V version has a loading capacity of 1000 kg and a maximum lifting height of 9,25 m. The RT-S36V is based on S36V truss with stabilizers of 60 mm tube. It has a self-weight of 415 kg.

The legs of the V-shaped base can be levelled by means of screw jacks which are attached to the side of the legs. After the base is placed, the mast can be built and erected using the hinges on the base corner.

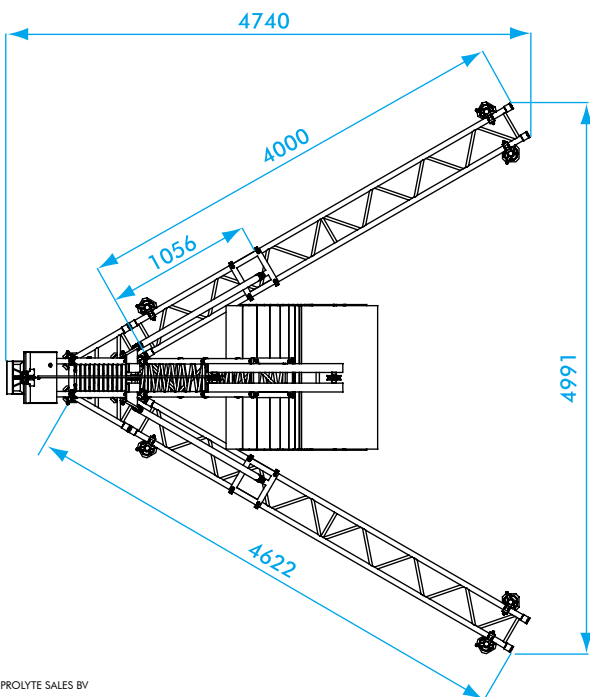
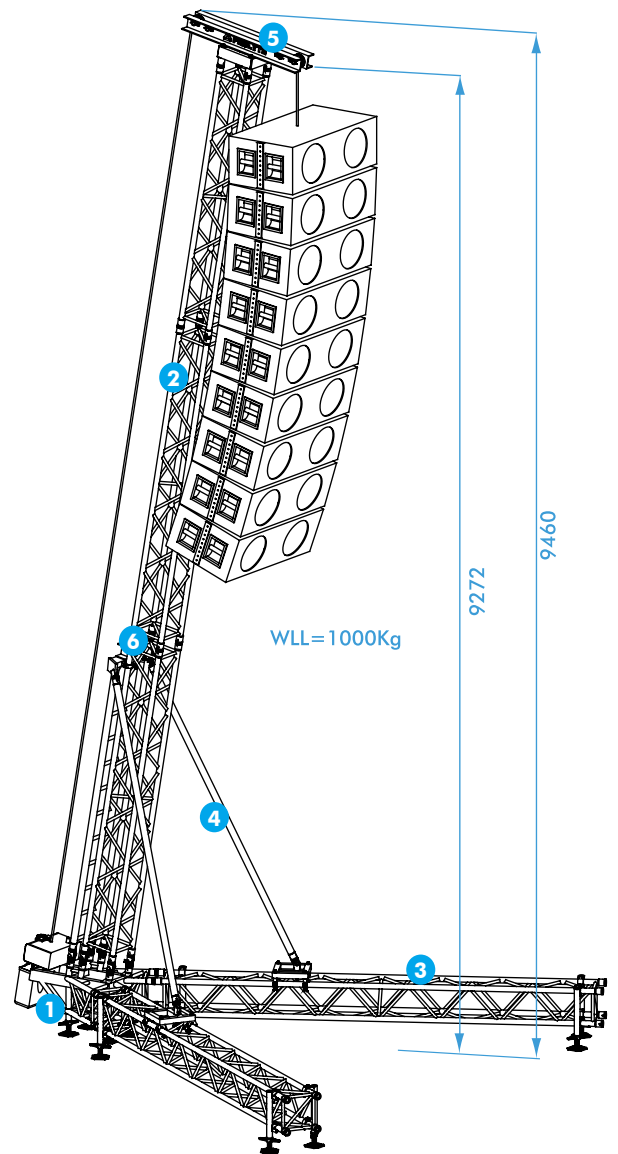
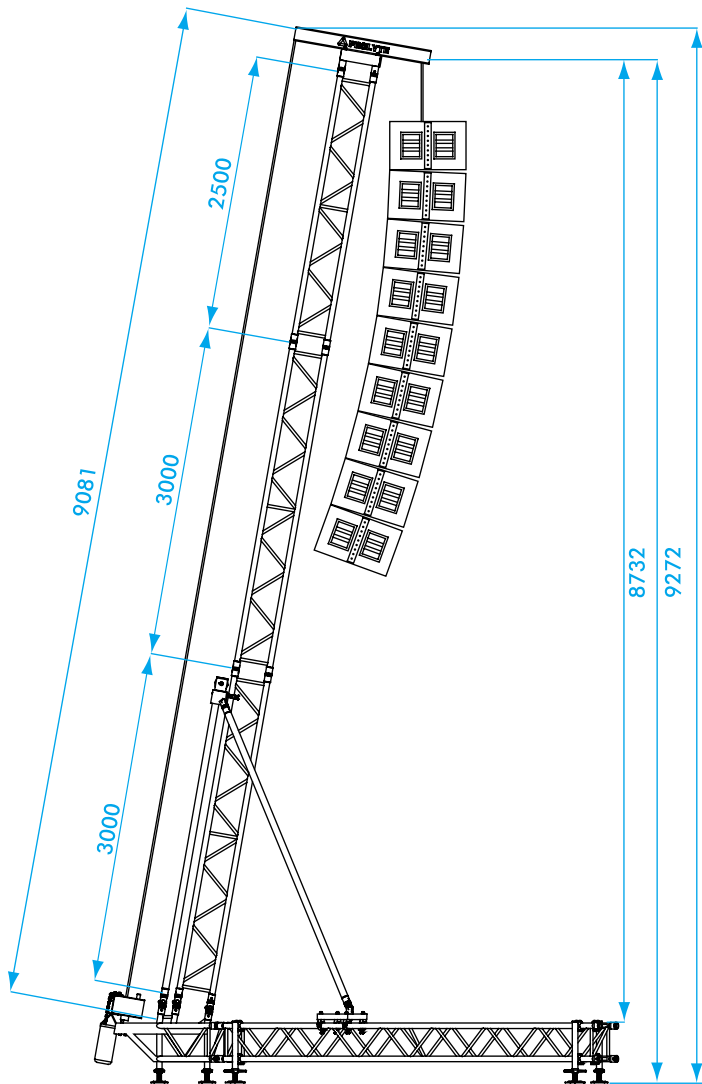
The mast should be stabilised by means of the braces, which fix to the legs. After the system is levelled and ballast is applied, the load can be hoisted in position.

The relatively small measurements make it suitable for all applications, such as outdoor events, concerts, shopping mall entrance halls, exhibition areas and theme parks.



ACC-SPIN-ATT-36
spindle attachment 36 truss, $x = 299$ mm

ACC-SPIN-LAY/40
spindle to be ordered separately



LEGENDA

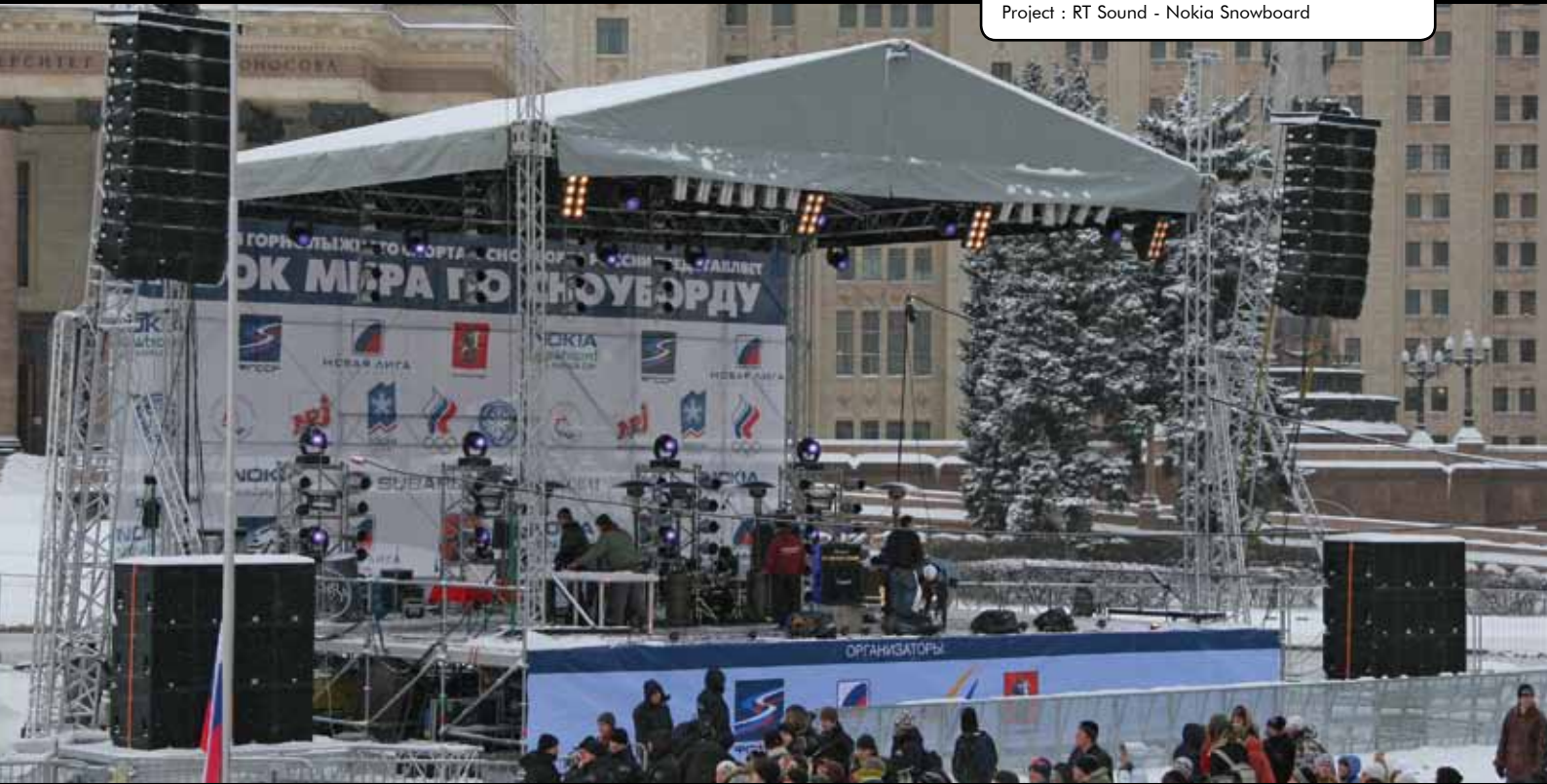
1	CORNER	RT-S36V-C003
2	MAST SECTION	S36V-L300
3	LEG SECTION	S36V-L400
4	STABILISER SECTION	TUBE 60 MM
5	TOP SECTION	RT 009-S36V
6	MAST ATTACHMENT	RT-STAB-S36V-REAR

TECHNICAL SPECIFICATIONS RT-S36V-1T

max. overall height	9.46 m (other heights optional)
max lifting height	9.25 m
max. loading capacity	1000 kg (2200 lbs)
max. surface front load	5 m ²
max. surface side load	2,5 m ²
truss sections	S36V
braces	60 mm
coupling system	CCS7 series
alloy alu parts	EN-AW 6082 T6
ballast	480 kg
max. windspeed	20,7 m/s (46.3 mph)
system weight	415 kg

RT-S52SV

Photo : ModifiC, Russian federation
Project : RT Sound - Nokia Snowboard

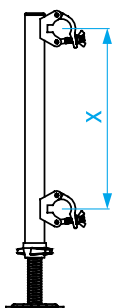


The medium to heavy-duty RT-S52SV version has a loading capacity of 1400 to 2900 kg and a maximum lifting height of 12,95 m (please refer to the technical specifications table for further details). The RT-S52SV is based on S52SV truss with stabilizers of H30D truss. It has a self-weight of 463-520 kg.

The legs of the V-shaped base can be levelled by means of screw jacks which are attached to the side of the legs. After the base is placed, the mast can be built and erected, using the hinges on the base corner.

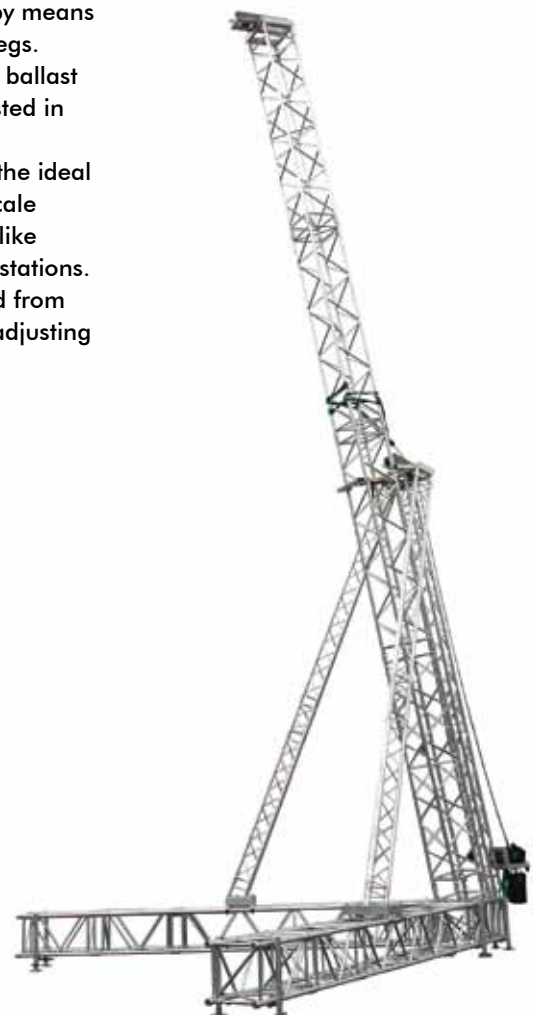
The mast should be stabilised by means of the braces, which fix to the legs. After the system is levelled and ballast is applied, the load can be hoisted in position.

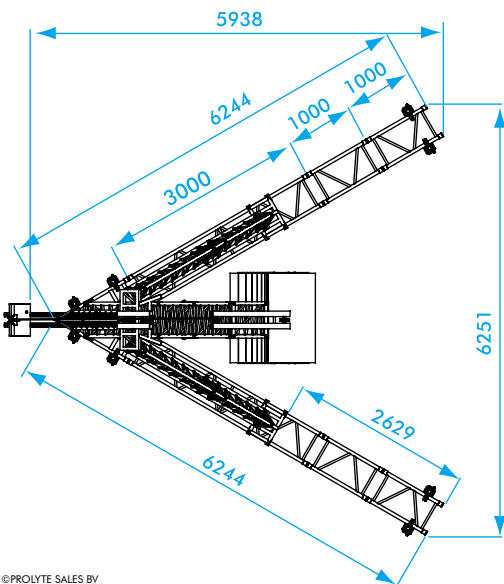
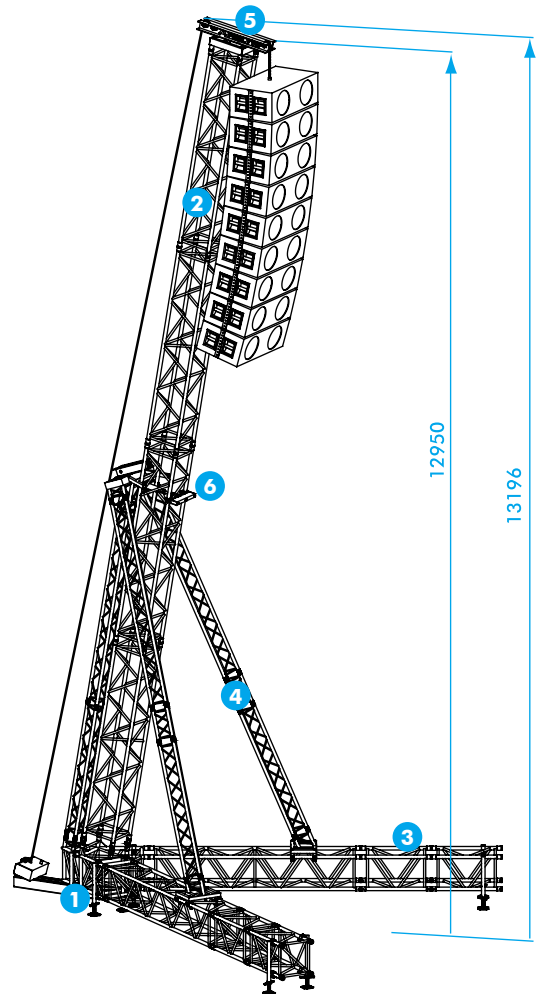
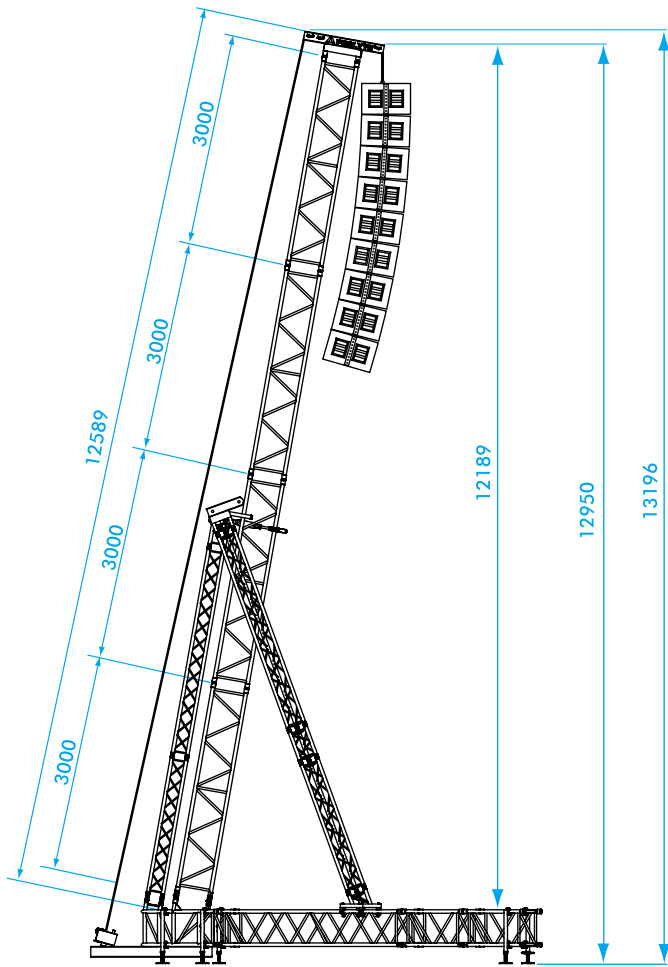
The RT-S52SV rigging tower is the ideal solution for medium to large-scale events where flexibility counts, like concerts or other public manifestations. The RT-S52SV can be converted from one type to another by simply adjusting the length of the mast.



ACC-SPIN-ATT-52
spindle attachment 52 truss, x = 470 mm

ACC-SPIN-LAY/60
spindle to be ordered separately





©PROLYTE SALES BV

LEGENDA

1	CORNER	RT-S52SV-C003
2	MAST SECTION	S52SV-L300
3	LEG SECTION	S52SV-L300
4	STABILISER SECTION	H30D-L•••
5	TOP SECTION	RT-009S
6	MAST ATTACHMENT	RT-TOP

TECHNICAL SPECIFICATIONS	RT-S52SV-1,4T	RT-S52SV-2,0T	RT-S52SV-2,9T
max. overall height	13,15 m	11,18 m	10,19 m
max lifting height	12,95 m	10,95 m	9,95 m
max. loading capacity	1400 kg (3080 lbs)	2050 kg (4510 lbs)	2900 kg (6380 lbs)
max. surface front load	5 m ²	7,5 m ²	10 m ²
max. surface side load	2,5 m ²	3,75 m ²	5 m ²
truss sections	S52SV	S52SV	S52SV
braces	H30D	H30D	H30D
coupling system	CCS7 series	CCS7 series	CCS7 series
alloy alu parts	EN-AW 6082 T6	EN-AW 6082 T6	EN-AW 6082 T6
ballast	150 kg	200 kg	200 kg
max. windspeed	20,7 m/s (46.3 mph)	20,7 m/s (46.3 mph)	20,7 m/s (46.3 mph)
system weight	520 kg (1144 lbs)	495 kg (1089 lbs)	463 kg (1018 lbs)

RT-B100RV

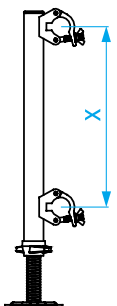
Photo : Italstage, Italy



The heavy-duty RT-B100RV version has a loading capacity of 2300 kg and a maximum lifting height of 15,95 m. The RT-B100RV is based on B100RV truss with stabilizers of H30D truss. It has a self-weight of 695 kg.

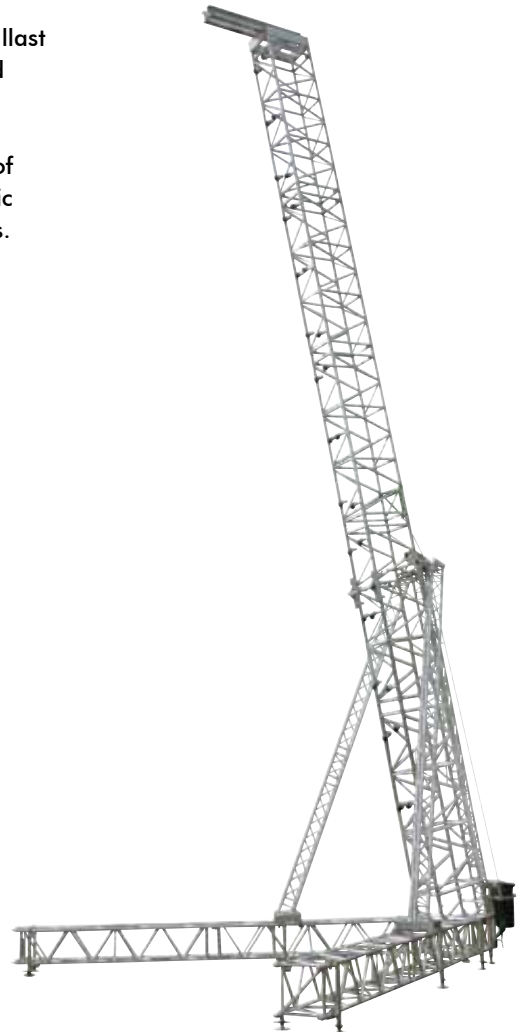
The legs of the V-shaped base can be levelled by means of screw jacks which are attached to the side of the legs. After the base is placed, the mast can be built and erected using the hinges on the base. The mast should be stabilised by means of the braces, which fix to the legs.

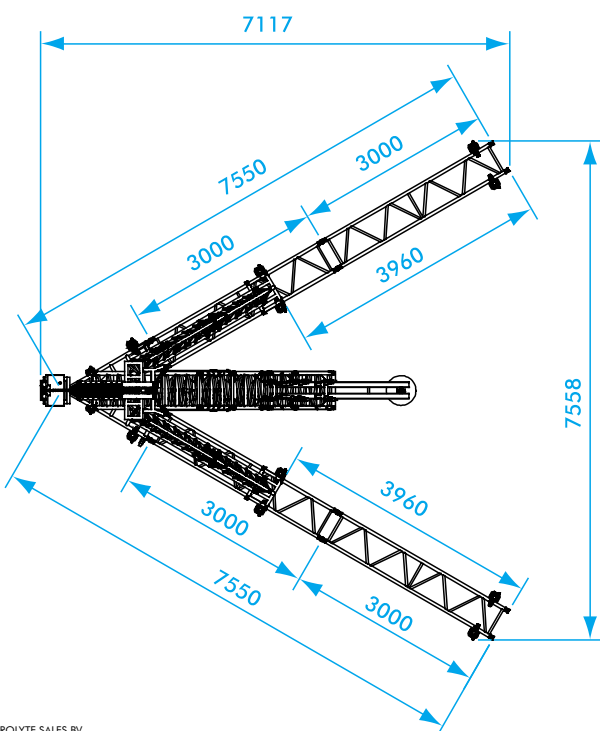
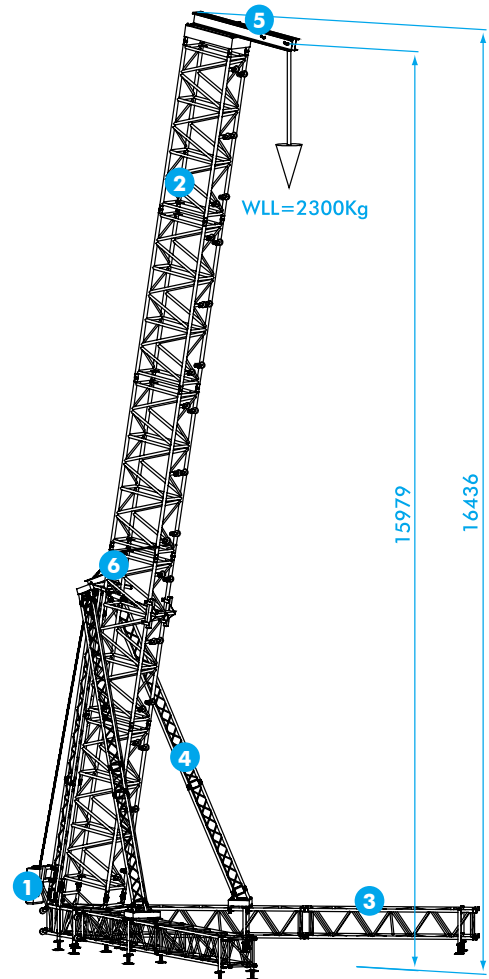
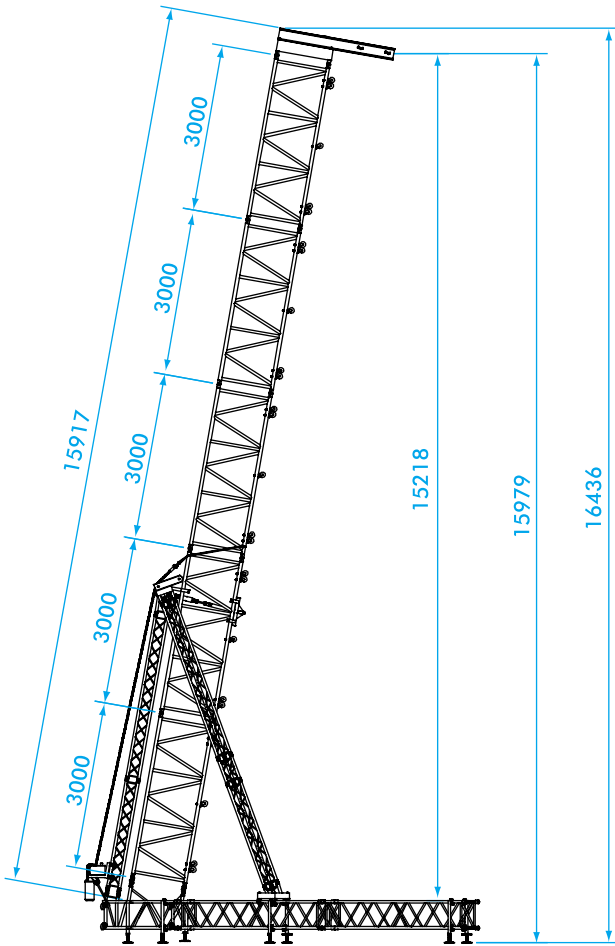
After the system is levelled and ballast is applied, the load can be hoisted in position. The sturdy and stable RT-B100RV rigging tower is a safe and suitable solution for all sorts of settings, like outdoor events, public manifestations and large stadiums.



ACC-SPIN-ATT-52
spindle attachment 52 truss, $x = 470$ mm

ACC-SPIN-LAY/60
spindle to be ordered separately





LEGENDA

1	CORNER	RT-B100RV-C003
2	MAST SECTION	B100RV-L300
3	LEG SECTION	S52SV-L•••
4	STABILISER SECTION	H30D-L•••
5	TOP SECTION	RT-009-B100RV
6	MAST ATTACHMENT	RT-TOP

TECHNICAL SPECIFICATIONS RT-B100RV-2,3T

max. overall height	16,22 m
max lifting height	15,95 m
max. loading capacity	2300 kg (5060 lbs)
max. surface front load	11 m ²
max. surface side load	5,5 m ²
truss sections	B100RV / S52SV
braces	H30D
coupling system	CCS7 series
alloy alu parts	EN-AW 6082 T6
ballast	915 kg
max. windspeed	20,7 m/s (46.3 mph)
system weight	695 kg (1530 lbs)

MPT TOWER

Photo : JSA, Russian Federation



The MPT tower is based on H30V truss and uses a sleeve block that is suitable to fit any of the 30 or 40 series trusses to all four sides by means of bolted, either male or female CCS6 couplers. In combination with an adapter plate it is also possible to use the sleeve block with either S36R or S36V truss. The MPT tower has a self-weight of 115 kg.

The MPT sleeve block is a fully bolted structural element, making it much stronger and more precise than conventional welded versions. The top section and base section can facilitate the use of either a hand winch or a chain hoist.

The MPT tower is a cost-effective investment. You only have to buy the special parts if you wish to expand your truss system with towers.



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TECHNICAL SPECIFICATIONS MPT TOWER

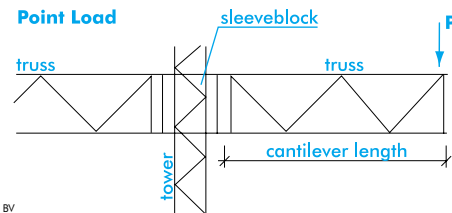
max. height	7,50 m / 9.00 m
max. loading capacity	1000 kg*
max. load handwinch	750 kg
type mast sections	H30V
sleeve block suitable for truss-series	X or H30D, X or H30V, X or H40D and X or H40V, S36R, S36V
alloy alu parts	EN-AW 6082 T6
coupling system tower	CCS6 series
self weight	115 kg

* There is a structural relation between tower length and size, further the applied load and the method of restraining the tower base also have its influence on the total loading capacity. All these factors must be taken into consideration when determining the allowable load and tower length.

The allowable load given is based on a uniformly distributed load (UDL). Load cases with several pointloads can show much better loading capacities.

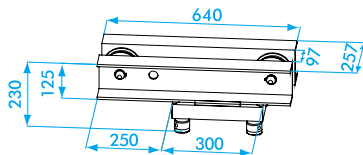
ALLOWABLE CANTILEVER LOAD FOR MPT-010 SLEEVE BLOCK

length (L)	H40V X40V PL (kg)	H40D X40D PL (kg)	H30V X30V PL (kg)	H30D X30D PL (kg)
0,5	400	160	400	130
1	200	80	200	65
1,5	130	50	130	40
2	100	40	100	30



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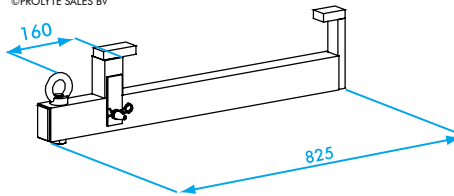
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MPT-009

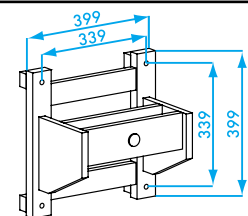
Top section. Pulley suitable for 8 mm chain or 8 mm steelwire.

©PROLYTE SALES BV



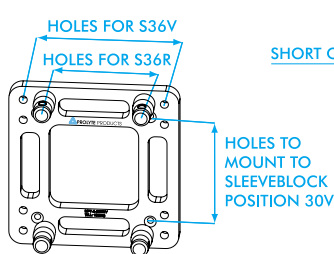
MPT-041

MPT Motor attachment.



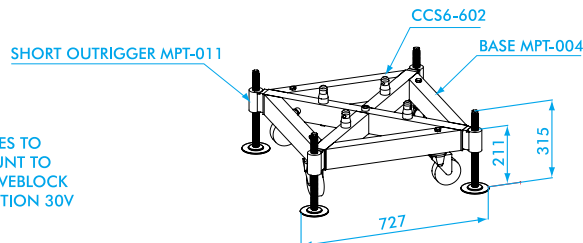
MPT-042

©PROLYTE SALES BV



ACC-A-36R/V

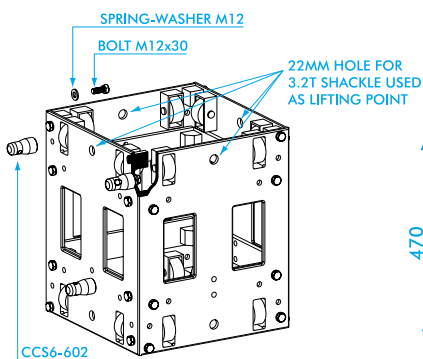
Adapter plate for S36R or S36V truss WLL 1000kg.



MPT-004

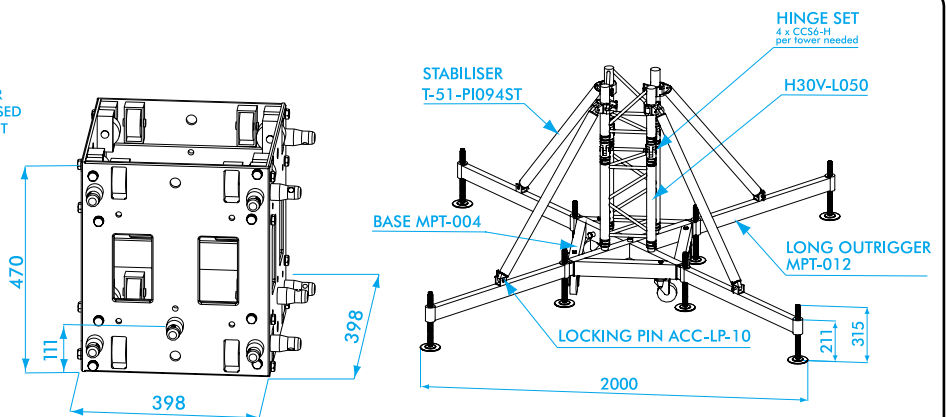
Base with MPT-011 short outriggers.

©PROLYTE SALES BV



MPT-010

Sleeve block.



MPT-010

Sleeve block.

MPT-004

Base with MPT-012 long outriggers.

MPT TOWER

- 1** The black coated, steel base (MPT-004) is equipped with 4 castors and four half conical couplers (CCS6-602) for the attachment of the mast section. The base can be used with either short outriggers (MPT-011) or long outriggers (MPT-012).



- 2** To secure the outriggers within the base, a trigger pin is placed on the inside of the base frame. Pull the pin outwards when mounting the outriggers.



- 3** Disassemble the hinge set, mount the half hinges to both the mast sections (H30V truss). Male and female connections should be mounted diagonally (as shown in the picture) in order to facilitate the erection of the mast.



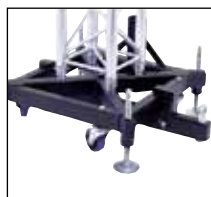
- 4** A completely mounted hinge set. First locate the truss pins on one side. The truss now works as a hinge and can be erected easily. Subsequently locate the remaining truss pins in the other side to fix the mast into position. Per tower 4 x CCS6-H needed. (hinge set MPT•ST tower).



- 5** Unscrew the screw jacks in the outriggers. Make sure that the castors of the base are free of any load. The complete load of the base should be supported by the screw jacks. Level the base by adjusting the screw jacks. The base must be perfectly level before the mast is erected. Long outriggers are needed for structures with three towers or less.



- 6** To use the MPT tower in combination with a chain hoist, Prolyte provides the motor attachment (MPT-041). This supplementary component can be attached to the base and has a fixing point for the chain hoist hook.



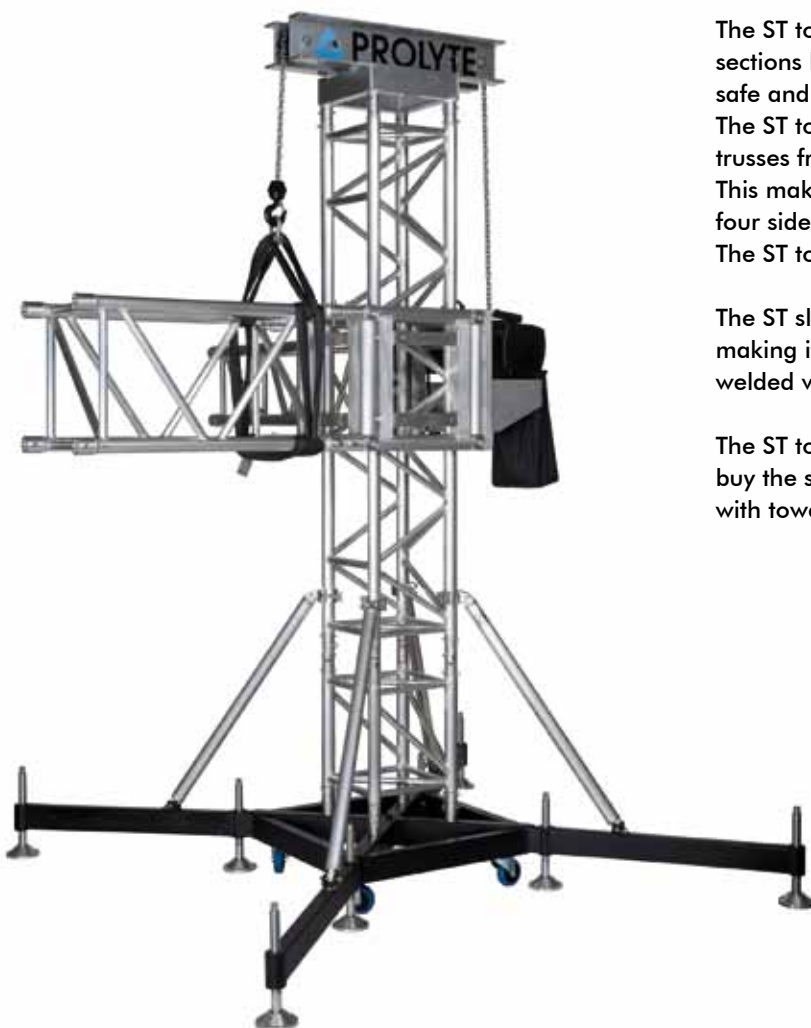
- 7** The sleeve block is lifted by use of a chain hoist or a hand winch. Chain hoists can be mounted with the help of the motor attachment (MPT-042). Chain hoists can also be mounted to the grid and sleeve block. WLL 1000 kg.



- 8** Prolyte recommends that, during storage and transportation, the MPT towers be mounted as an assembly of the following components: base section, 50 cm mast section, sleeve block, hinges and top section. This combination facilitates fast, efficient loading and building of the towers (size 60 x 60 x 115 cm, weight +/- 115 kg).



Photo : Enttech, Greece
Project : Voala Beach, Athens, Greece



The ST tower is based on S40T mast sections. These mast sections have one-sided horizontal bracing to facilitate the safe and easy climbing of the towers.

The ST tower uses several sleeve blocks that combine all the trusses from the S and B series.

This makes it possible to fit any of the S series trusses to all four sides by means of bolted female CCS7 couplers.

The ST tower has a self-weight of 120 kg.

The ST sleeve block is a fully bolted structural element, making it much stronger and more precise than conventional welded versions.

The ST tower is a cost-effective investment. You only have to buy the special parts if you wish to expand your truss system with towers.

ST TOWER HEAVY DUTY TOWER SYSTEM

TECHNICAL SPECIFICATIONS ST TOWER

max. height	depends on structure and tower length
max. loading capacity*	2000 kg**
type mast sections	S40T
sleeve block suitable for truss-series	S36R•V, S52F•V, S66R•V, S100F and B100RV (with various sleeve blocks)
alloy alu parts	EN-AW 6082 T6
main tubes mast sections	50 x 4mm
braces mast sections	25 x 3mm
coupling system tower	CCS6-Series
self weight	120kg

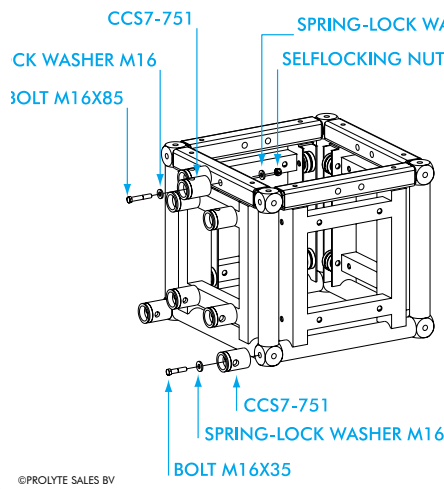
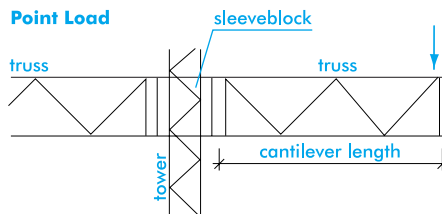
1) to be used with chainhoist only.

** There is a structural relation between tower length and size, further the applied load and the method of restraining the tower base also have its influence on the total loading capacity. All these factors must be taken into consideration when determining the allowable load and tower length.

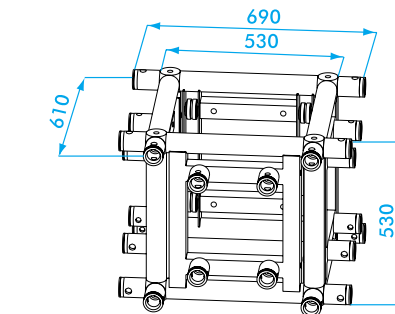
The allowable load given is based on a uniformly distributed load (UDL). Load cases with several point loads can show much better loading capacities.

ALLOWABLE CANTILEVER LOAD FOR ST-010 SLEEVE BLOCK

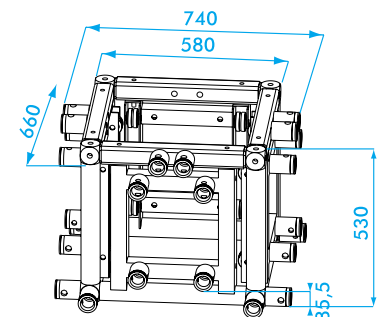
Length (L)	S52V/SV P (kg)	S52F P (kg)	B100RV P (kg)	S100F P (kg)
1	1753	1414	4290	1103
1,5	1489	977	2666	707
2	1288	736	1872	511
2,5	1130	581	1406	393
3	1002	472	1104	316
3,5	895	389	893	261
4	804	324	740	220
4,5	726	271	618	188
5	658	226	520	163
5,5	597	188	444	143
6	543	153	383	126



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ST-010
Sleeve block for S36R and S52V

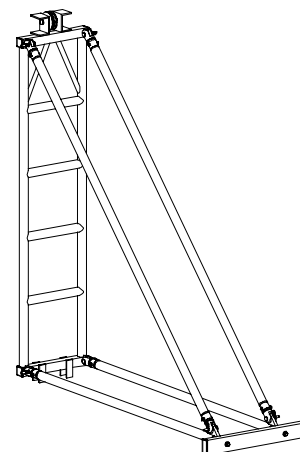


ST-010
Sleeve block for S36R and S52F



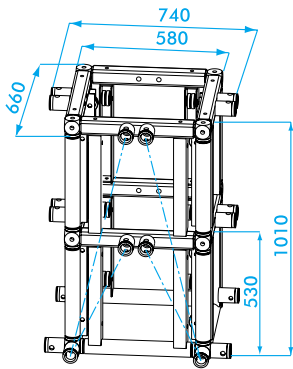
ST Help erecting system

The ST-HELP can be used to erect the ST towers. Use with a 1-ton electrical chain hoist. Attach to truss by means of a ratchet strap. Read the manual first!



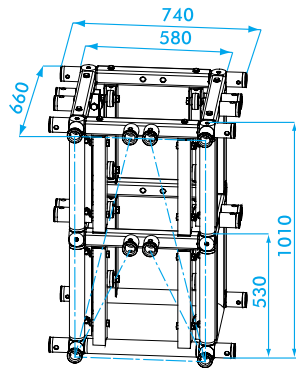
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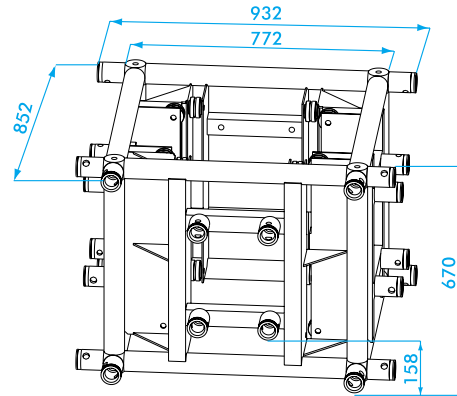
ST-010

Sleeve block for S52F / S100F / B100RV.

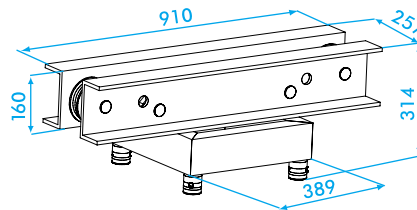


ST-010

Sleeve block for S36R / S66V.

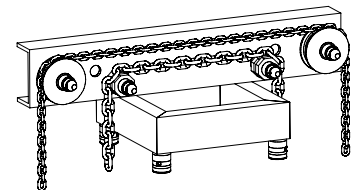


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ST-009

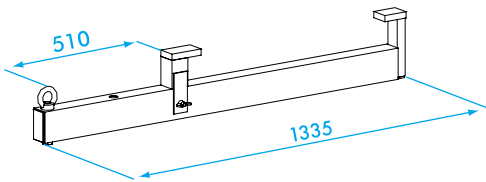
Top section with added wheels for optimal dead hang positioning.



ST-009

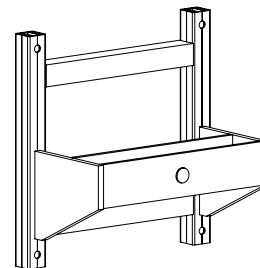
Balances dead hang weight automatically, only one dead hang chain needed.

©PROLYTE SALES BV



ST-041

ST Motor attachment.

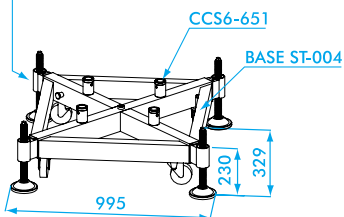


ST-042

ST Motor attachment. WLL 1000 kg, available for all S-series sleeve blocks.

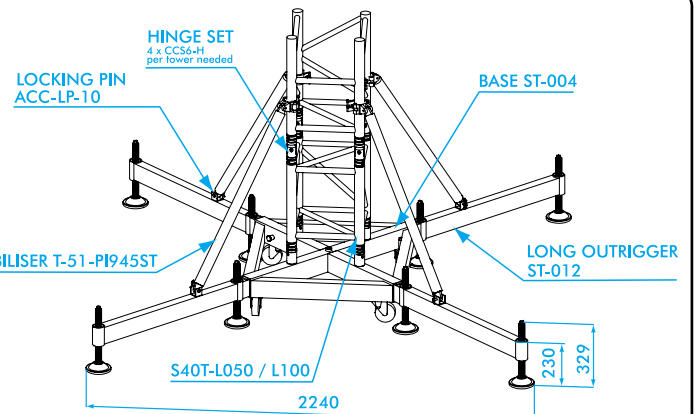
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SHORT OUTRIGGER ST-011



ST-004

Base with ST-011 short outriggers.



ST-004

Base with ST-012 long outriggers.

S40T SERIES STANDARD AVAILABLE LENGTHS

Meters	0,5	1,00	1,50	2,00	2,50	3,00	3,50	4,00	AVARAGE WEIGHT PER METER = 10,3 kg
Feet	1.64	3.28	4.92	6.56	8.20	9.84	11.48	13.12	AVARAGE WEIGHT IN POUNDS PER FEET = 6,93 LBS

ST TOWER HEAVY DUTY TOWER SYSTEM

- 1** The black coated, steel base (ST-004) is equipped with 4 castors and four female couplers (CCS6-651) for attachment of the mast section. In most cases, the first mast section can be 50 cm long, however, when S66 or S100 truss is used in the grid a mast section of 100 cm should be used. The base can be used with either short outriggers (ST-011) or long outriggers (ST-012).
- 2** To secure the outriggers within the base, a trigger pin is placed on the inside of the base frame. Pull the pin outwards when mounting the outriggers.
- 3** The ST tower can only be used with a chain hoist. The hoist can be attached in two ways (please see pictures 7 and 8).
- 4** Disassemble the hinge set, mount the half hinges to both mast sections (S40T truss). Male and female connections should be mounted diagonally (as shown in the picture), in order to facilitate the erection of the mast.
- 5** A completely mounted hinge set. First locate the truss pins on one side. The truss now works as a hinge and can be erected easily. Then locate the remaining truss pins on the other side to fix the mast into position. Per tower 4 x CCS6-H needed (hinge set MPT•ST tower).
- 6** Unscrew the screw jacks in the outriggers, making sure that the castors of the base are free of any load. The complete load of the base should be supported by the screw jacks. Level the base by adjusting the screw jacks. The base must be perfectly level before the mast is erected. Long outriggers are needed for structures with three towers or less.
- 7** To use the ST tower in combination with a chain hoist, Prolyte provides the motor attachment (ST-041). This supplementary component can be attached to the base and has a fixing point for the chain hoist hook. WLL 1000 kg.
- 8** Chain hoists can be attached by use of the motor attachment (ST-042). Chain hoists can also be mounted to the grid and sleeve block.
- 9** Prolyte advises that during storage and transportation the ST towers are mounted as an assembly of the following components; base section, 50 cm mast section, sleeve block and top section. This combination facilitates fast, efficient loading and building of the towers (size 80 x 80 x 120cm, weight +/- 120 kg).



PROLYTE S40T - ALLOWABLE LOADING																
SPAN		UNIFORMLY DISTRIBUTED LOAD		DEFLECTION		MAXIMUM ALLOWABLE POINT LOADS										SPAN
		UDL				CPL		DEFLECTION		TPL		QPL		FPL		
m	ft	kg/m	lbs/ft	mm	inch	kg	lbs	mm	inch	kg	lbs	kg	lbs	kg	lbs	total weight
2	6,6	2333,8	1570,4	2	0,07	4308,2	5282,5	2	0,07	2333,8	5150,8	1551,9	3425,0	1166,9	2575,4	24
3	9,8	1551,9	1044,2	5	0,19	2862,2	4290,7	4	0,15	2146,6	4737,6	1431,1	3158,4	1163,9	2568,8	36
4	13,1	1068,1	718,7	9	0,35	2136,1	3420,6	7	0,27	1602,1	3535,8	1068,1	2357,2	886,5	1956,5	48
5	16,4	679,2	457,0	14	0,55	1698,1	3122,2	11	0,43	1273,6	2810,8	849,0	1873,8	704,7	1555,3	60
6	19,7	468,0	314,9	20	0,78	1404,1	2662,7	16	0,62	1053,1	2324,1	702,0	1549,4	582,7	1286,0	72
7	23,0	340,7	229,2	28	1,10	1192,4	2526,7	22	0,86	894,3	1973,6	596,2	1315,8	494,8	1092,1	84
8	26,2	258,0	173,6	36	1,41	1032,1	2416,9	29	1,14	774,0	1708,3	516,0	1138,9	428,3	945,3	96
9	29,5	201,3	135,5	46	1,81	906,1	2158,9	37	1,45	679,5	1499,7	453,0	999,8	376,0	829,9	108
10	32,8	160,8	108,2	56	2,20	804,0	2095,9	45	1,77	603,0	1330,9	402,0	887,3	333,7	736,4	120
11	36,1	130,8	88,0	68	2,67	719,5	2039,4	55	2,16	539,6	1190,9	359,7	794,0	298,6	659,0	132
12	39,4	108,0	72,7	81	3,18	648,0	1987,7	65	2,55	486,0	1072,7	324,0	715,1	268,9	593,5	144
13	42,6	90,3	60,7	95	3,74	586,7	1825,3	76	2,99	440,0	971,1	293,3	647,4	243,5	537,3	156
14	45,9	76,2	51,3	111	4,37	533,2	1788,3	88	3,46	399,9	882,5	266,6	588,4	221,3	488,3	168
15	49,2	64,8	43,6	127	4,99	486,0	1654,7	102	4,01	364,5	804,5	243,0	536,3	201,7	445,2	180
16	52,5	55,5	37,3	144	5,66	444,0	1625,9	116	4,56	333,0	735,0	222,0	490,0	184,3	406,7	192
17	55,8	47,8	32,2	163	6,41	406,3	1512,4	130	5,11	304,7	672,5	203,1	448,3	168,6	372,1	204
18	59,0	40,5	27,2	180	7,08	372,0	821,1	146	5,74	266,2	587,4	186,0	410,5	147,3	325,0	216
19	62,3	32,6	21,9	190	7,48	340,8	752,1	163	6,41	226,1	499,0	166,9	368,4	125,1	276,1	228
20	65,6	26,2	17,7	200	7,87	312,0	688,6	181	7,12	191,2	422,0	142,1	313,6	105,8	233,5	240
21	68,9	21,0	14,2	210	8,26	285,5	630,0	199	7,83	160,6	354,3	120,3	265,5	88,8	196,1	252
22	72,2	16,7	11,3	220	8,66	260,7	575,5	218	8,58	133,4	294,4	101,0	222,9	73,8	162,9	264
23	75,4	13,1	8,8	230	9,05	224,1	494,6	230	9,05	109,1	240,8	83,8	185,0	60,4	133,3	276
24	78,7	10,1	6,8	240	9,44	188,6	416,2	240	9,44	87,3	192,6	68,3	150,8	48,3	106,6	288
25	82,0	7,6	5,1	250	9,84	156,5	345,4	250	9,84	67,5	148,9	54,3	119,9	37,3	82,4	300

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

CT TOWER

Photo : ModifiC, Russian Federation
Project : Russian telecommunication company "Caravan"



The CT tower is based on C52T mast sections. These mast sections have one-sided horizontal bracing to facilitate the safe and easy climbing of the towers. C52T truss is constructed of main tubes of 60 x 5 mm and diagonals of 30 x 3/48 x 3 mm. Use the CCS7 coupling system with the CCS7-704 or Z-CCS7-703-C52T shortened spigot pin. The latter one is finished in yellow to be easily distinguishable from regular pins.

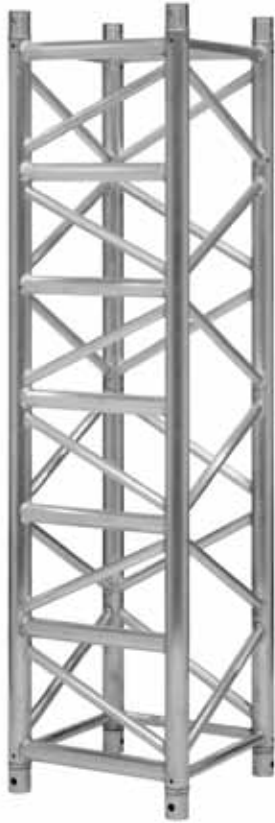
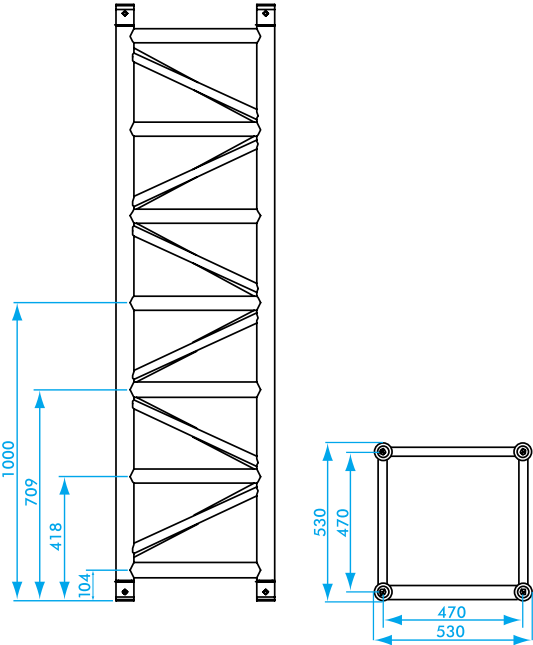
The base section of the CT tower is similar to the ST tower; the outside dimensions and setup are the same. Extra spindles are added to the base section to absorb the extra forces resulting from the tower's higher loading capacity. Existing ST base sections can be upgraded to accommodate CT towers on request.

The CT tower uses several sleeve blocks that combine all the trusses from the S and B series. This makes it possible to fit almost all S series trusses to all four sides by means of bolted female CCS7 couplers. The outside dimensions of the CT sleeve block are the same as the ST sleeve block; both can be combined in one grid. The CT tower has a self-weight of 140 kg.

The CT sleeve block is a fully bolted structural element, making it much stronger and more precise than conventional welded versions.

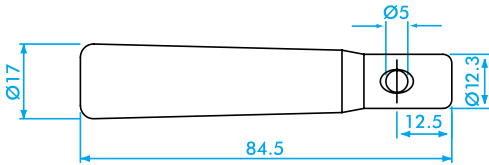
The CT tower is a cost-effective investment. You only have to buy the special parts if you wish to expand your truss system with towers.





ALLOWABLE CANTILEVER LOAD FOR CT-010 SLEEVE BLOCK

length (L)	B100RV CPL (kg)
1	3141
1,5	2383
2	1911
2,5	1587
3	1351
3,5	1169
4	1025
4,5	907
5	808
5,5	724
6	651



Z-CCS7-703-C52T

Special pin for CT mast yellow passivated

CT-009
Top section.

C52T 010-4-100/52F
Sleeve block.

C52T 010-4-B100
Sleeve block.

TECHNICAL SPECIFICATIONS CT TOWER

max. height	20,00 m
max. loading capacity*	5000 kg**
sleeve block suitable for truss-series	S52F•V, S66R•V, S100F and B100RV (with various sleeve blocks)
alloy alu parts	EN-AW 6082 T6
main tubes mast sections	60 x 5 mm
braces mast sections	30 x 3 / 48 x 3 mm
coupling system tower	CCS7 series

*) to be used with chainhoist only.

** There is a structural relation between tower length and size, further the applied load and the method of restraining the tower base also have its influence on the total loading capacity. All these factors must be taken into consideration when determining the allowable load and tower length.

The allowable load given is based on a uniformly distributed load (UDL). Load cases with several pointloads can show much better loading capacities.

CT SERIES STANDARD AVAILABLE LENGTHS

Meters	0,5	1,00	1,50	2,00	2,50	3,00	3,50	4,00	5,00	AVARAGE WEIGHT PER METER = 16,5 KG
Feet	1,64	3,28	4,92	6,56	8,20	9,84	11,48	13,12	16,4	AVARAGE WEIGHT IN POUNDS PER FEET = 11,1 LBS

OUTDOOR ADVERTISEMENT

Photo : Rohr Autohaus-Optimierung, Germany
Project : Highlight Platz Grasser



Advertisement towers

Outdoor advertisement is a perfect medium to bring your product or message to the attention of a large public. In close cooperation with Rohr Autohaus from Germany, Prolyte has developed a range of towers and pylons for this type of outdoor mass communication.

Reliable constructions

Outdoor advertisement towers or billboards constructed from truss require some extra attention with regard to setup and structural calculations.

Environmental factors such as wind force have to be calculated and, furthermore, the stability of the structure needs to be guaranteed. Prolyte offers a range of standard sizes of triangular as well as square advertisement towers, which all comply with the applicable regulations and standards.

Based on standard truss systems

The standard advertisement tower constructions from Prolyte consist of:

- Triangular towers up to 12 m in height constructed from H40V truss
- Triangular and square towers ranging from 6-10 m in height constructed from X&H30 en H40 truss
- Stand-alone pylons up to 10 m in height constructed from S66 and S52 truss

The three-sided advertisement space amounts to 2,5 x 2,5 m per side.

For more information, please contact Prolyte's Customer Services.



Photo : AV Point B.V., The Netherlands



LED or Video Screen support solutions

With the ever-increasing use of outdoor LED or Video screens, Prolyte has engineered the perfect solution to hang your screen in an efficient and safe way.

Prolyte has developed 3 standard screen solutions, based on the MPT, ST and CT towers. All constructions are provided with a complete set of calculations. Variations on the standard solutions are available on request.

Reliable constructions

LED Screen constructions require extra attention with regard to set up and structural calculations. Environmental factors, such as wind force, have to be calculated and furthermore, the stability of both the structure and the screen needs to be ensured. All Prolyte constructions comply with the applicable regulations and standards, like wind force resistance up to wind speeds of 28 m/s.

Each system has unique requirements

Due to the complex interaction of forces, resulting from screen surface, wind speeds, system weight and required screen height, each system is unique with respect to the calculation of the complete construction. Requirements for larger spans, higher loading or added screen height need to be calculated. Relying on its experienced engineering department, Prolyte is able to offer this distinctive service.

Based on standard truss systems

LED screen constructions from Prolyte consist of standard products from both the tower and truss range. There is no need to invest in special parts. Based on your standard rental stock; any suitable application can be constructed.

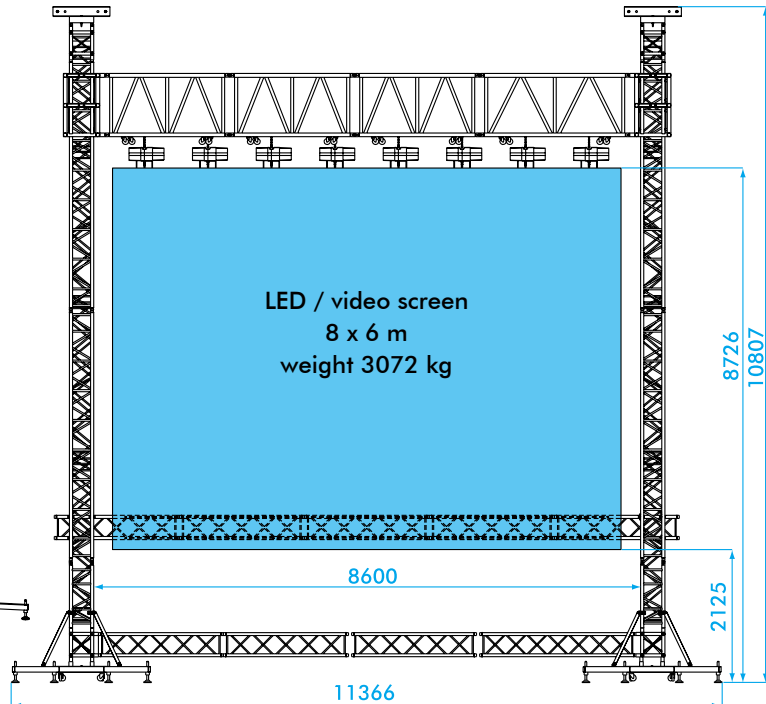
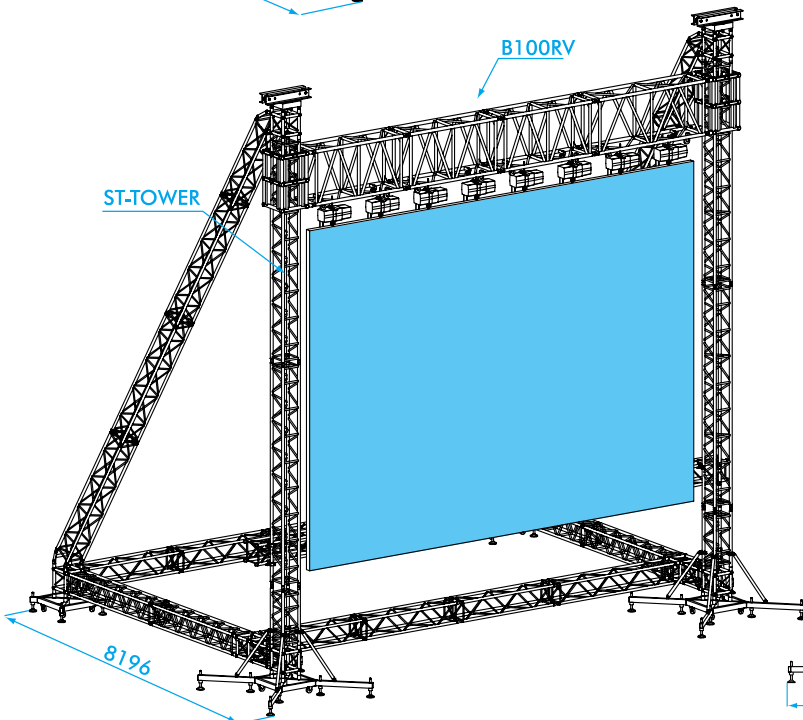
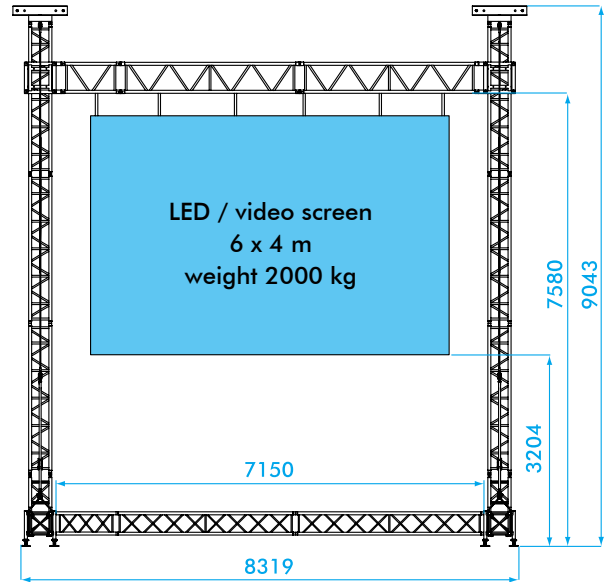
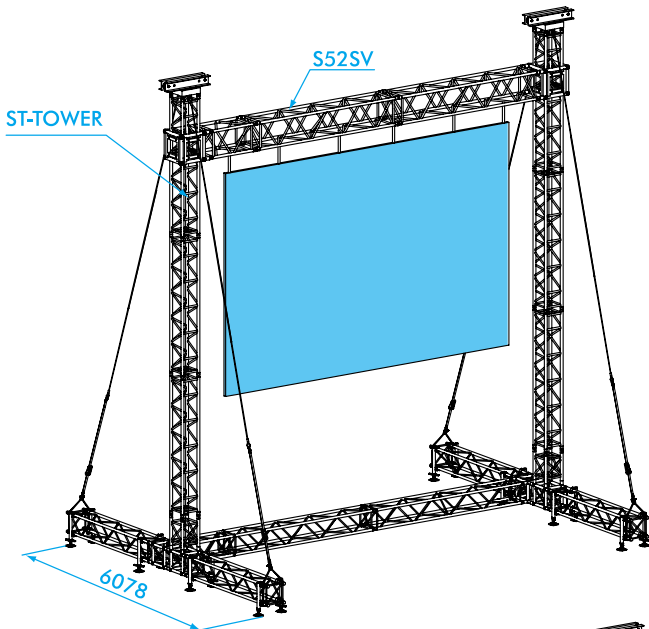
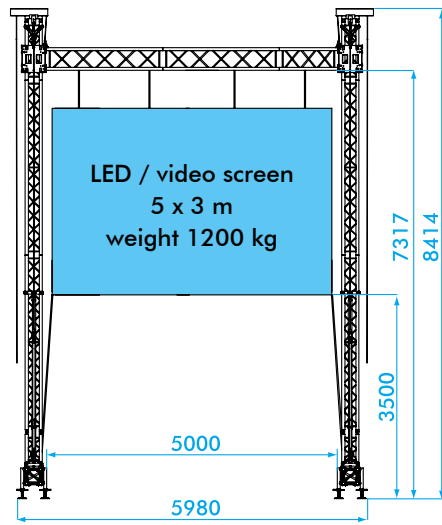
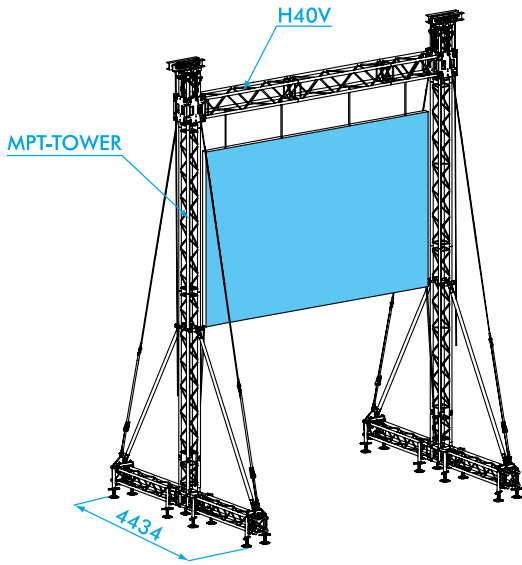
For more information, please contact Prolyte's Customer Services.



Technical Specifications

Allowable loading ranging from	500 - 5000 kg
Screen surface ranging from	6m ² to 60m ²
Max. Windspeed	13,8 to 28 m/s
Design Standards	DIN 4113 / EN 13814

LED / VIDEO SCREEN



BARRIER



Photo: Wilco Pijnenburg, The Netherlands

System characteristics

The Prolyte Barrier is a lightweight crowd control system made of aluminium. The barrier has a self-weight of only 35 kg per 1 m section.

The smooth round top bar and the bottom bar incorporate a stainless steel 15 mm slot pin that provides easy connection points for the barriers. The bottom side can be secured using a hexagon socket head screw (M 12 x 150 mm).

All profiles have soft, rounded edges for maximum comfort.

The design load of the barrier is 4,5 kN/m¹.

The crowd barrier folds flat after use and can be stacked in dollies for easy transportation and storage.

Apart from the standard 1 m sections, the Barrier can be delivered featuring several corner types, with extended platform sections, and in a Snake Gate version.

Furthermore, Prolyte can deliver the barrier featuring your own logo upon request.

System applications

The Prolyte Barrier was developed for use as a safety device to control crowds in various types of occasions ranging from pop concerts to outdoor events. The crowd barrier offers a combination of optimum safety and comfort for the audience and a safe working area for rescue personnel.

The crowd barrier is designed as a demountable structure; setup and assembly are quick and easy, requiring a minimum amount of tooling.

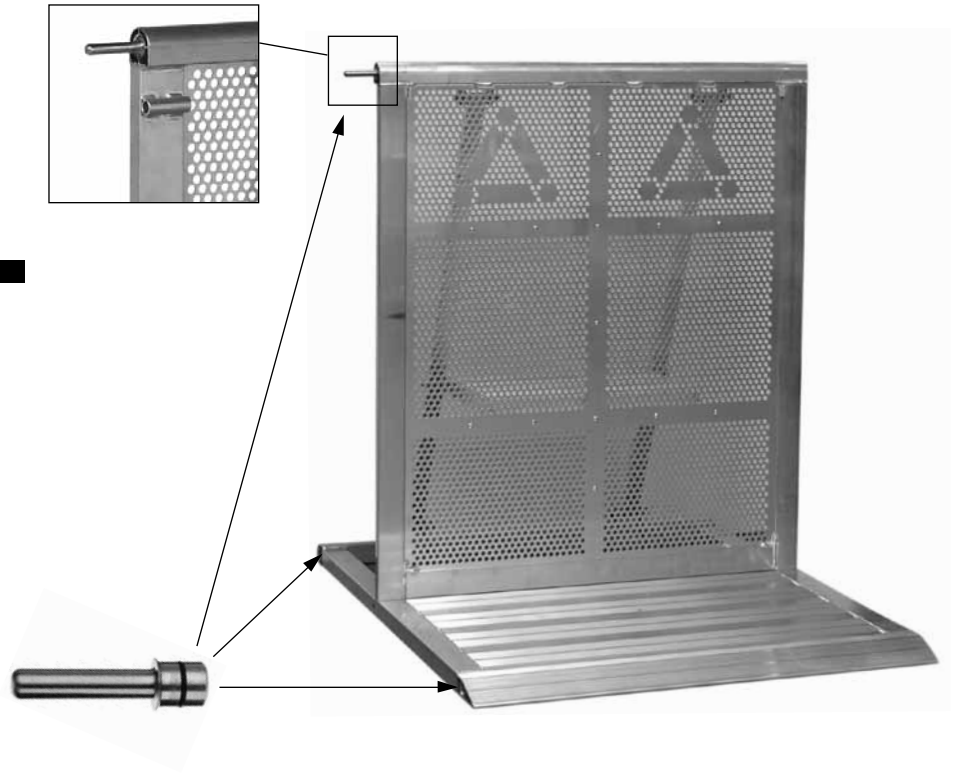
Crowd safety

The crowd barrier was designed in accordance with strict design criteria and complies with all health and safety regulations such as; "Temporary Demountable Structures", "Technical Standards for Places of Entertainment", DIN 4113 and BS 8118.

BARRIER

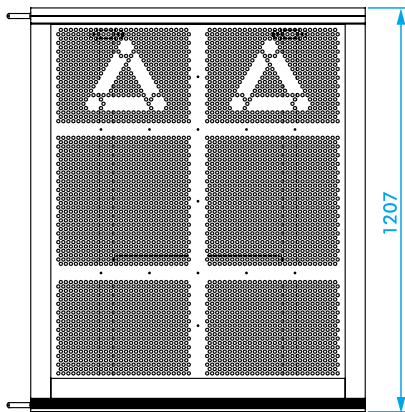


BAR-10-001



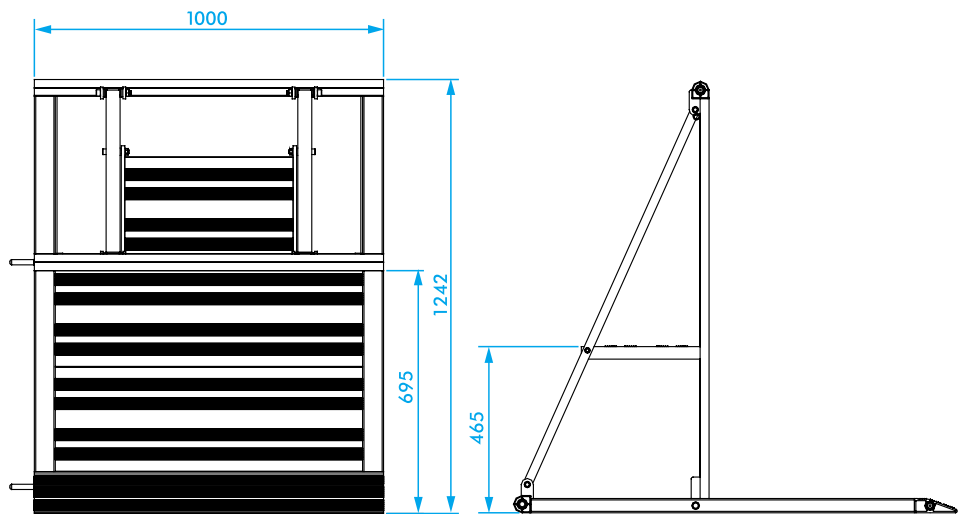
TECHNICAL SPECIFICATIONS BARRIER

Storage volume	1070 x 1242 x 90 mm
Self weight alu barrier	35 kg/piece 1m
Design load	4,5 kN/m ¹
Complies with	EN 13200 & temporary demountable structures



BAR -10-100

Front view.

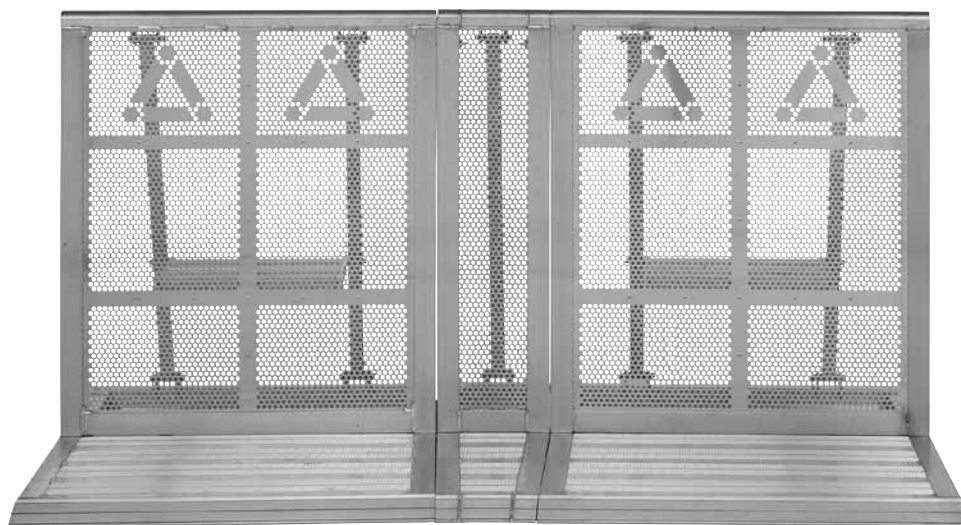


BAR -10-100

Top view.

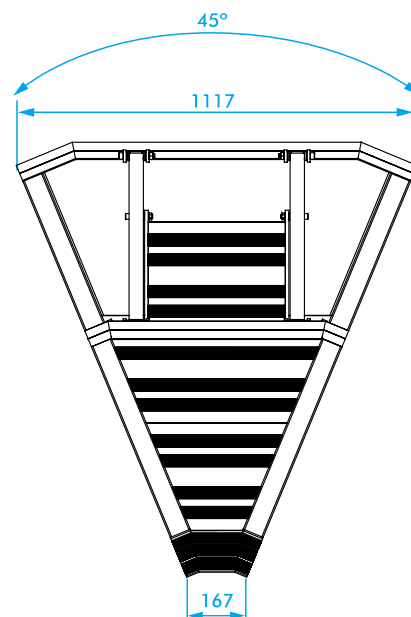
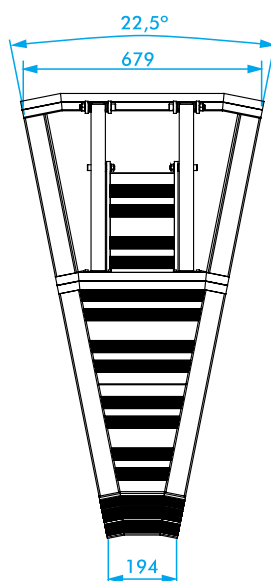
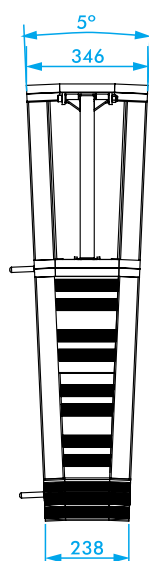
BAR -10-100

Side view.



INSIDE	
BAR-11-105	5°
BAR-11-122,5	22,5°
BAR-11-145	45°

OUTSIDE	
BAR-11-205	5°
BAR-11-222,5	22,5°
BAR-11-245	45°

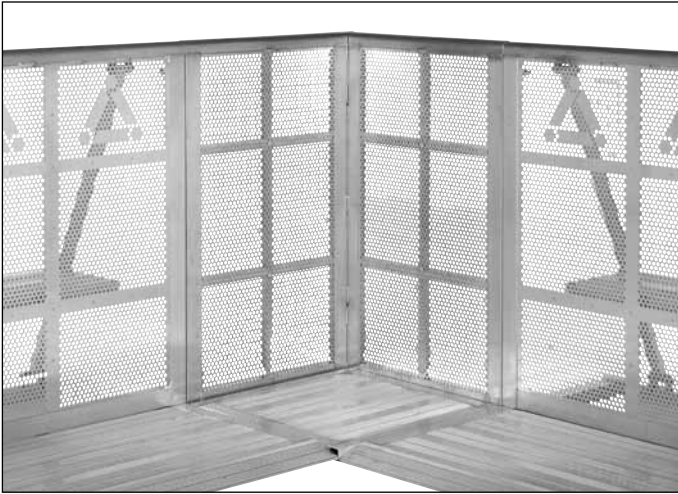


BAR - 11-105

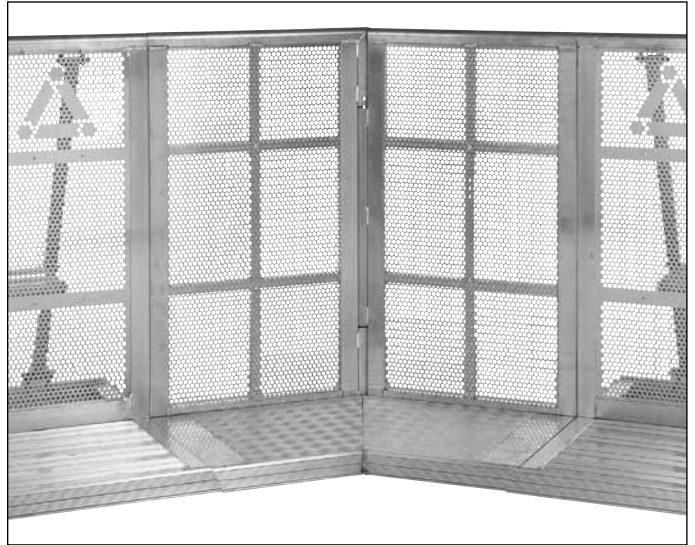
BAR - 11-122,5

BAR - 11-145

FLEX CORNER



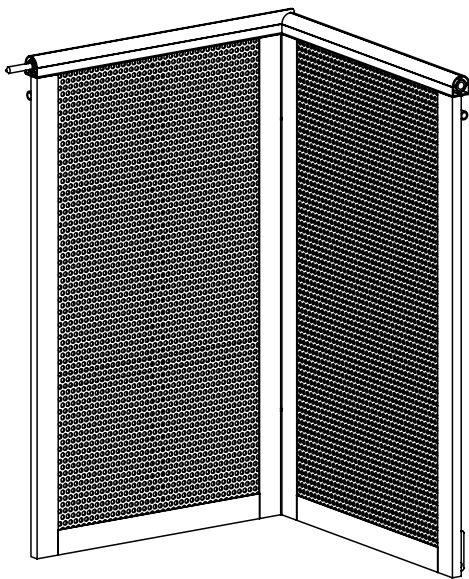
BAR -11-002



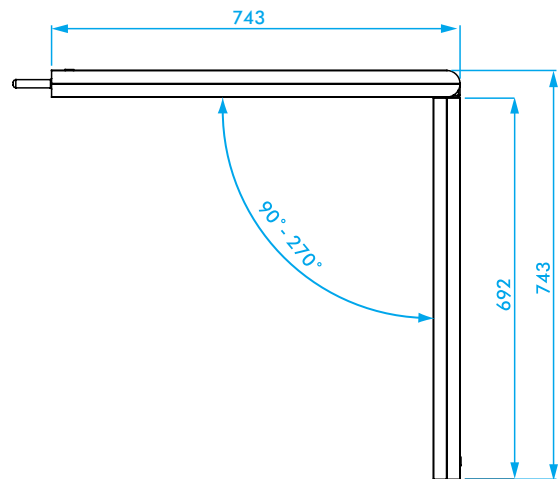
BAR -11-003

The Prolyte Barrier range is extended by the flex corner. In terms of angle, this corner can vary from 90-270 degrees and fits seamlessly with the standard Prolyte Barrier. The flex corner is equipped with a robust heavy-duty hinge which is capable of absorbing all the forces to which the barrier may be subjected.

The flex corner can be used as an inside as well as an outside corner. Prolyte has designed 2 inlay plates for a 90-degree and a 135-degree set up, respectively. Other inlay plates can be manufactured on request. The flex corner can be used without the inlay plate.



BAR -11-001



BAR -11-001

Top view.

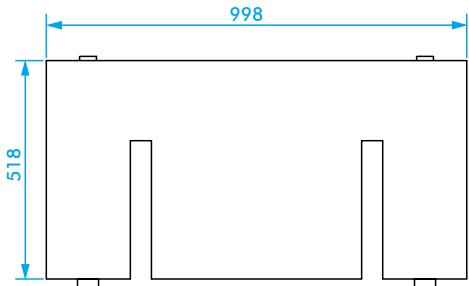


Prolyte has designed a 2-step extension for the barrier which can be used to create either a step-up possibility or a complete walking platform for security personnel.

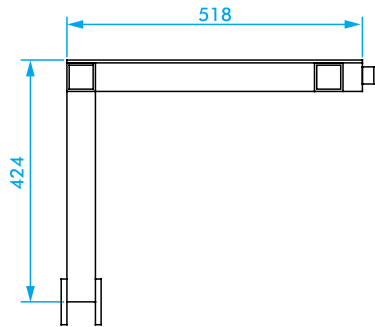
This extension provides enhanced safety as well as better reach and possibilities to address with respect to the public behind the crowd barrier.



BAR -10-003



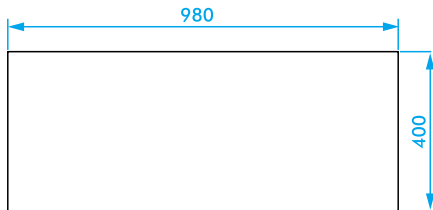
Top view. BAR -10-003



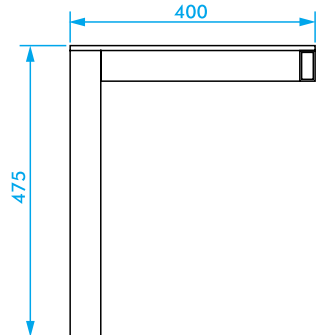
Side view. BAR -10-003



BAR -10-004



Top view. BAR -10-004



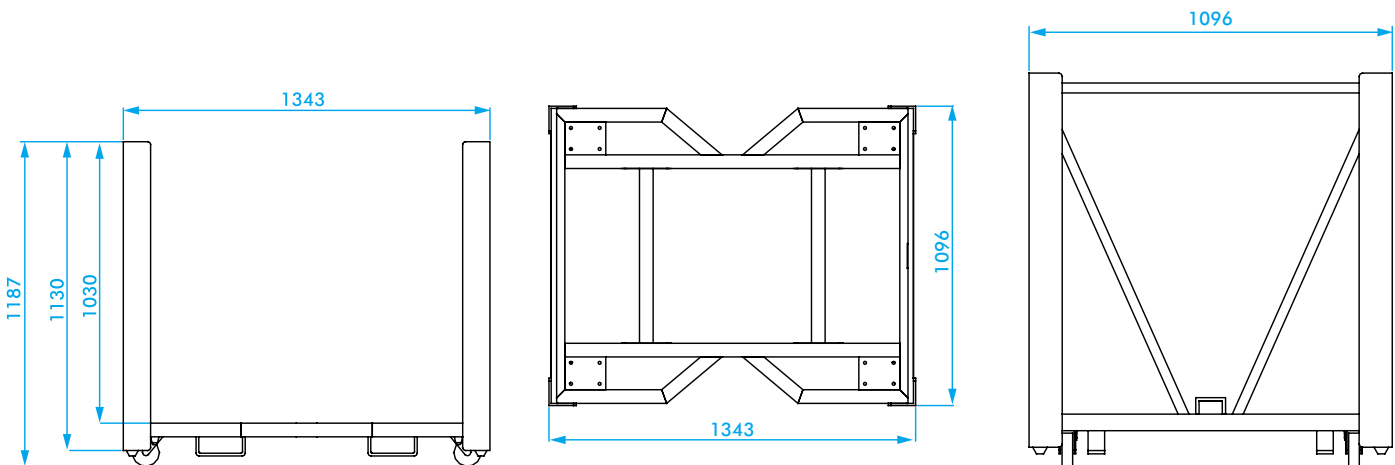
Side view. BAR -10-004

DOLLY



The specially designed barrier dolly makes transporting the barriers easy. This robust steel dolly holds 10 standard 1 m barrier sections.

Just load the Prolyte barriers on top of each other onto the dolly. A set of 4 sturdy castor wheels makes transportation and the loading of the dolly easy. The dollies can be stacked onto each other for further space saving.



BAR -10-010 / 011

Front view.

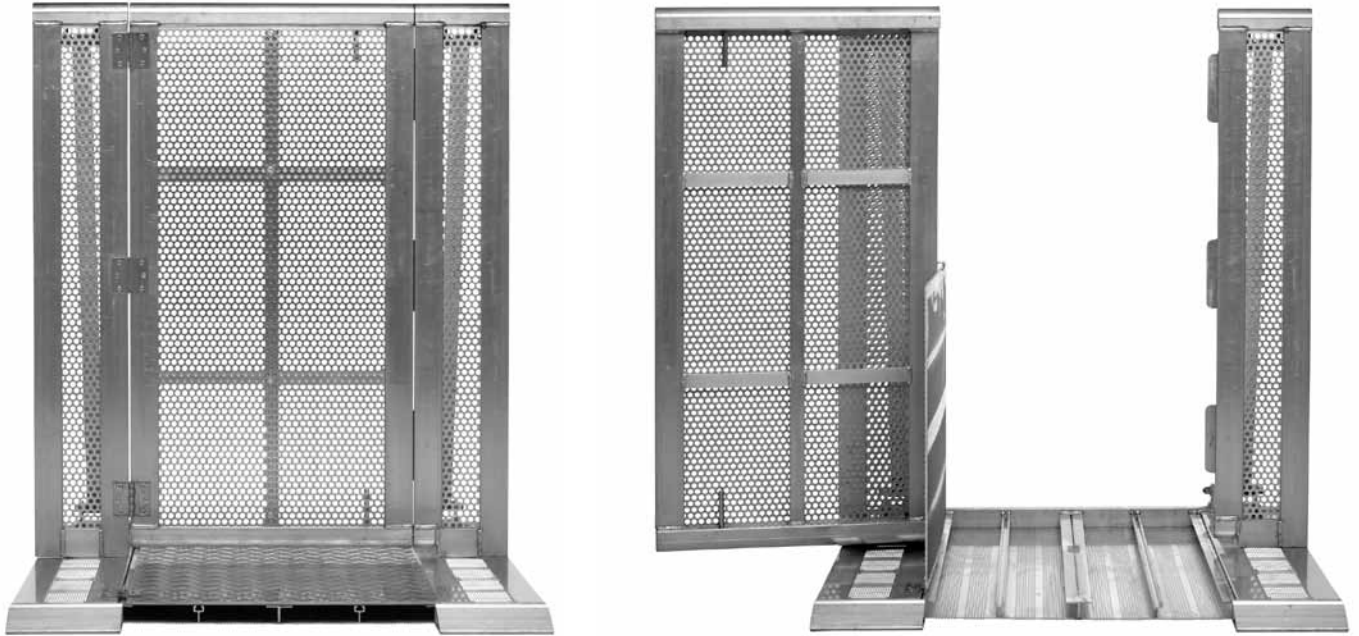
BAR -10-010 / 011

Top view.

BAR -10-010 / 011

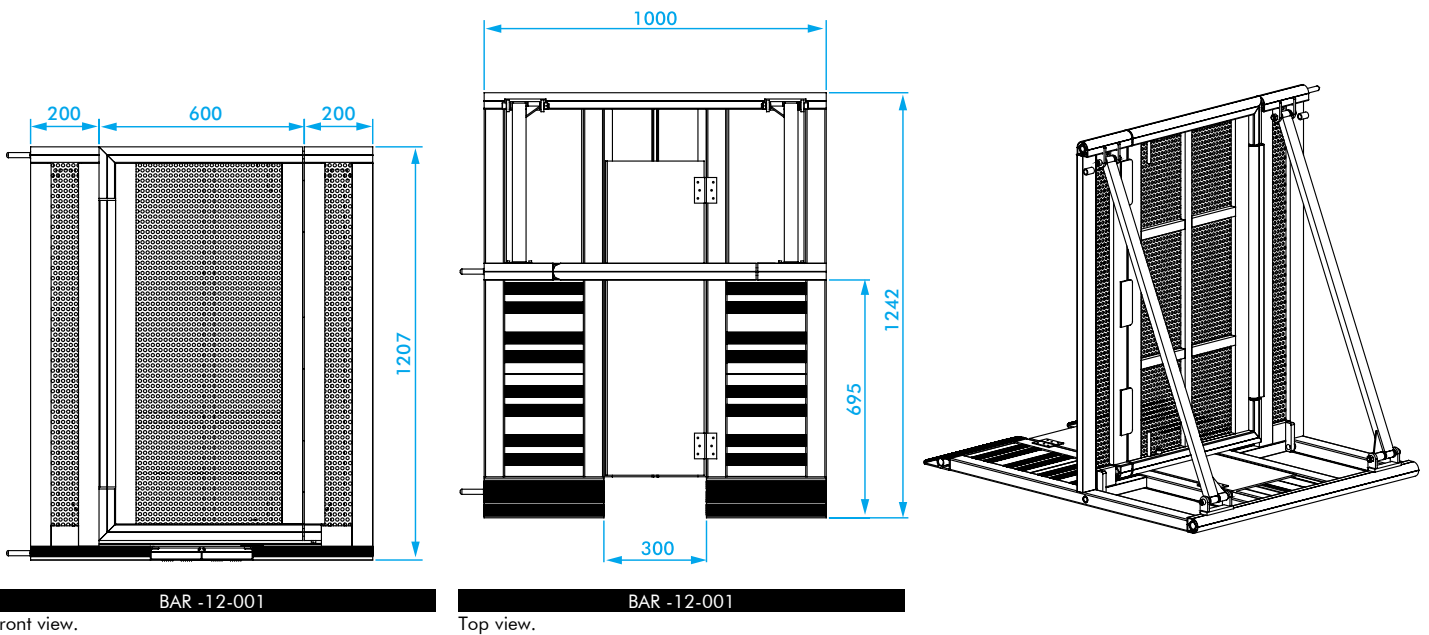
Side view.

BAR-10-010 are without wheels
 BAR-10-011 are with wheels



The Prolyte Snake Gate is a specially designed barrier to accommodate the transit of your cables ("snake") from the stage to front of house (FOH). A special gate, with a sturdy plate on top, protects your cables from sharp edges and

facilitates the placing of the barriers once the cables are already in place. The integrated door facilitates access from stage to FOH for working technicians or security personnel.



TECHNICAL QUESTIONNAIRE

- 1) PROJECT NAME: _____
- 2) What is the construction used for? (describe briefly)
- 3) Is there a drawing available?
 yes, see enclosure
 no (If not make a sketch!)
- 4) Please give all measurements (height, width, length, circle-radius)
- 5) In which environment/under what conditions will the truss be used?
 indoor outdoor
 public area private area
- 6) Is the construction a permanent or temporary installation?
- 7) Is there any specific type of truss you want to use?
 If yes Why ?
- 8) What types of loading does the construction have to bear?
 Minimal load to support _____ kg
 Point load (spots, speakers etc.) _____ amount
 Uniformly distributed load
 (like drapes, floors, snow, etc.) _____ kg/m¹
 Concentrated loads _____ amount
 Horizontal loading
 (guy-wires, steps, ladders) _____ amount
 Dynamic loading (wind, moving loads) _____ kg
 Special (like: people, set pieces)
- 9) How will the truss (construction) be suspended or supported?
 Hoists hand electrical amount _____
 Legs (portal) amount _____
 Ground support amount _____
- 10) What are the distances between the supporting or suspension points?
- 11) Do you need a structural report?
- 12) What is the requested delivery time?

CONVERSION TABLE

TEMPERATURE:			
To convert C to F multiply by 1.8 and add 32			
To convert F to C subtract 32 and multiply by 5/9			
LENGTH, DISTANCE AND AREA		MULTIPLY BY:	
Inches	→ Centimetres		2.54
Centimetres	→ inches		0.39
Feet	→ metres		0.304
Metres	→ feet		3.28
Yards	→ metres		0.91
Metres	→ yards		1.09
Miles	→ kilometres		1.61
Kilometres	→ miles		0.62
Acres	→ hectares		0.40
Hectares	→ acres		2.47
Square miles	→ square kilometres		2.59
Square kilometres	→ square miles		0.39

WEIGHT		MULTIPLY BY:	
Ounces	→ grams		28.35
Grams	→ ounces		0.035
Pounds	→ kilograms		0.45
Kilograms	→ pounds		2.20
British tons	→ kilograms*		1016
US tons	→ kilograms*		907
*) A British ton is 2240 lbs, a US ton is 2000 lbs.			
VOLUME			
Imperial gallons	→ litres		4.55
Litres	→ imperial gallons		0.22
US gallons	→ litres		3.79
Litres	→ US gallons		0.26

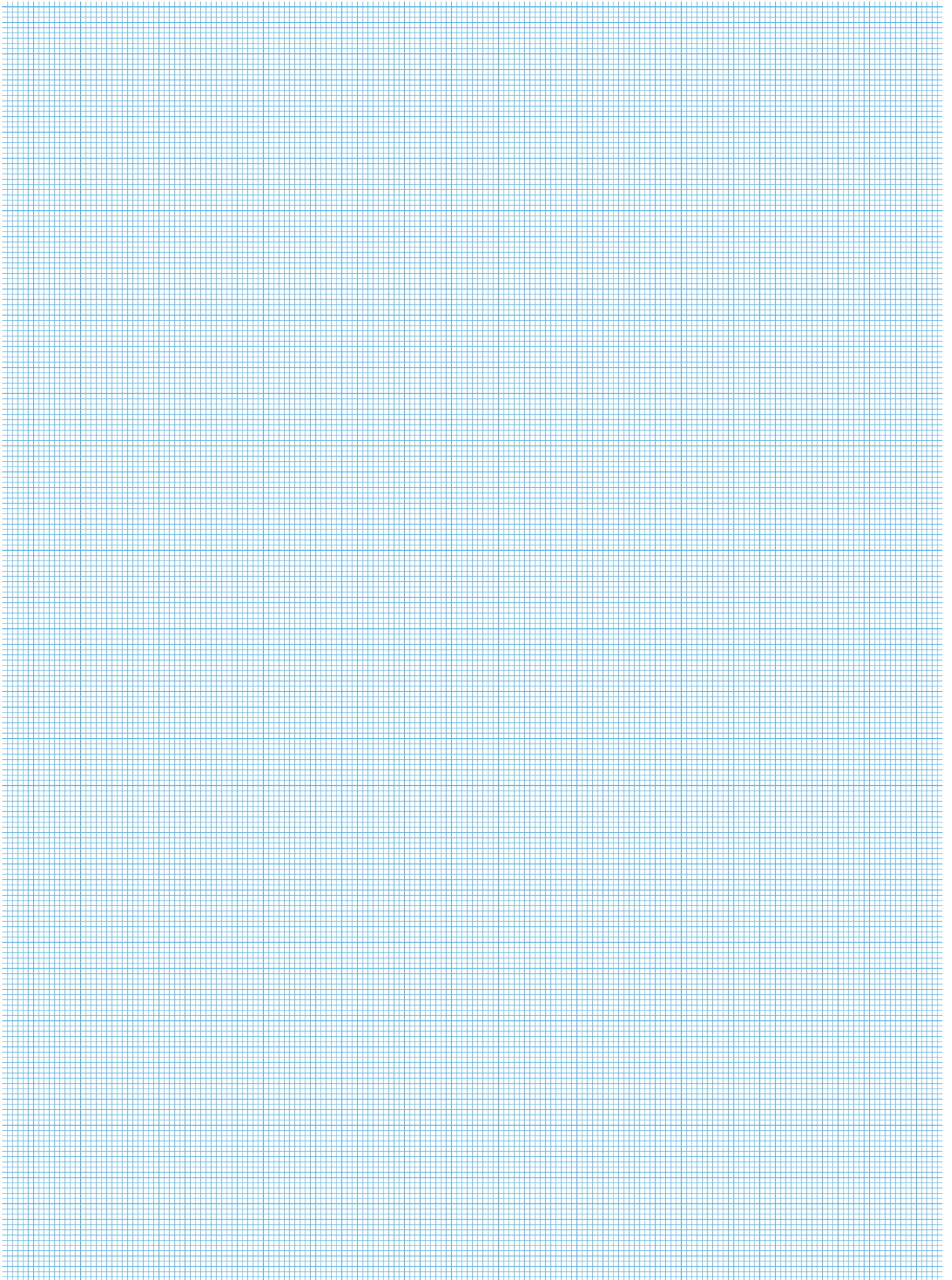
MORE INFORMATION?

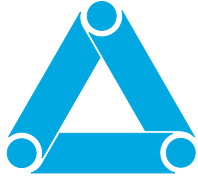
PROLYTE PRODUCTS GROUP

Industriepark 9, NL-9351 PA LEEK

phone : + 31(0)594 85 15 15, fax: + 31(0)594 85 15 16

e-mail : info@prolyte.com, website: www.prolyte.com





PROLYTE PRODUCTS



PROLYFT

PROLYTE PRODUCTS GROUP

Industriepark 9 - NL-9351 PA LEEK

Tel. : +31 (0)594 85 15 15

Fax : +31 (0)594 85 15 16

E-mail : info@prolyte.com

Website : www.prolyte.com