



By prioritising mutual respect and trust, Prolyte creates long-term relations with both its users and customers.

When this is all coming together Prolyte is your first step to start building great things. Prolyte is headquartered in Leek, the Netherlands, where the complex process of design, engineering and sales come together. Prolyte has manufacturing bases in Czech Republic, Italy and China, and warehouses in both the USA and Netherlands to provide stock and logistic facilities worldwide.

Completing the team effort is a network of distribution partners; Prolyte distributes products to over 50 geographical markets worldwide. It utilises its network of partners who not only supply but also endorse its products with impeccable customer service and outstanding technical support, enforcing Prolyte's reputation as a market leader for quality, safety and customer satisfaction.

You can find Prolyte products in installations, events and productions all over the world.

www.prolyte.com





# **Content of Truss Products**

TUBE 9 RT - B100RV 107 E20D / E20V 10 MPT TOWER 109 H20LB 13 HT TOWER 1114 ST TOWER 116 **X30 SERIES** 14 H30 SERIES 18 CT TOWER 123 VERTO TRUSS 22 DT TOWER 126 H40 SERIES 28 **OUTDOOR ADVERTISING 131 HEAVY-DUTY TRUSS 34** LED/ VIDEO SCREEN 133 S36 SERIES 35 S36 PRT TRUSS 38 **ROOF SYSTEM 140** S52 SERIES 40 ARC ROOF 145 S66 SERIES 44 ARC HT-ROOF 149 S100F TRUSS 46 MINI FLAT ROOF 152 BGR70 TRUSS 48 FLAT ROOF 153 B100RV TRUSS 51 CLT ROOF 157 CATWALK TRUSS 54 MPT ROOF 161 M145RV - MAMMOTH TRUSS 56 ST ROOF 165 CIRCULAR TRUSS 58 POLYGON XII ROOF 169 CANTILEVER LOAD 62 GIANT ARC ROOF 173 CORNERS 65 XXL ROOF 177 COUPLERS & ACCESSORIES 82 SPACE ROOF 181

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Photo: © the Prolyte.



# **Prolyte Truss**

Truss products are the building blocks of our industry. Prolyte has developed a broad range of trusses and the unique conical coupling system, CCS, suitable for a variety of applications from decorative solutions to intricate truss structures. Prolyte is capable of meeting all your truss needs, from a simple flown grid or exhibition booth to elaborate or composite structures prepared for high loading.

# Safety first

Prolyte encompasses trusses and complementary corners and accessories; all designed and manufactured according to a strict philosophy that emphasizes safety by making high quality products in compliance with the strictest regulations and standards. Next to that, simplicity, ease-of-use and configuration flexibility guarantee user-friendly

products designed for daily practice. Prolyte provides comprehensive data and offers expert guidance and training to promote the correct use and safe application of its truss systems.

# The choice of professionals

Prolyte manufactures trusses with original, advanced designs based on the experience and feedback of a worldwide community of users. Your ideas and requirements are incorporated into the latest generation products to ensure the highest level of functionality, reliability and safety. User experiences and changing market demands are the source of continuous product improvement and inspiration to design new products. With an installed rental base throughout Europa and further, Prolyte is the choice of professionals.



Photo by Gerard Henninger: Stageco, project: Ziggo Dome, 538 Jingleball

### **Architectural truss**

E series trusses provide the solution for systems integrators, retail installations and structures with a mainly decorative function. These trusses combine structural components with highly aesthetic looks.

# **Multipurpose truss**

The multipurpose truss range comprises of the X30, H30 and H40 series, available in ladder, triangular and square profiles. The X30, H30 and H40 series are light-to-medium-duty truss systems designed for use in the installation, rental and exhibition markets. These trusses are strong, compact, exceptionally versatile, and have low self-weight. Assembly is fool proof due to the continuous webbing of the diagonals. The X and H series are differentiated by wall thickness of the main chords; 2 mm. for the X truss and 3mm. for the H truss. Although almost identical in appearance, H series trusses are up to 30% stronger, specifically on longer spans.

# System applications

If you're looking for solutions for permanent or semi permanent installations, architectural set pieces, theatre sets, shop displays, studio grids, or showroom applications, the X series truss is your answer. The exceptional strength in relation to their relatively small dimensions of the X truss makes it the ideal solution for complex structures like displays or booths. The H series trusses are primarily designed for high-frequency users such as 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.

# APPLICATION SCOPE

| Application scope    |   |
|----------------------|---|
| Application scope    | 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  The institution of Structural Engineers, Temporary Demountable structures, guidance on use, procurement and design /                                |
| TISE                 | England   |
| IGVW SQP1            | Code of practice for event technology- Provision and Use of Truss Systems / Germany   |
|                      | MANUFACTURING  Temporary ground-supported overhead structures used to cover the stage and support equipment in the production of  |
| ANSI E1.21           | 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 structrures; design and construction  |
| EN 13814             | Temporary structures, fairground amusements, directives for dimensioning and construction   |
| 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 O 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   |
| EN 1090-3            | Execution of steel and aluminium structures-part 3 technical rules for execution of aluminium structures  |





### T-48 Series

Single tube (48 x 3 mm) with welded connectors offer a range of possibilities out of the ordinary. As extension, drop arm, drape weight; the possibilities are endless. The tubes use the same CCS6 connection as the trusses. Some tubes are fitted with a clamp - offering extra options for use. Single tubes are not rated with any loading capacity.







T-48-CC•••CC With 2 x CCS6



T-48-ST•••ST With Stabilized Coupler

| Technical Specifications - T-48 Series |               |  |  |  |  |  |  |
|--|---------------|--|--|--|--|--|--|
| Туре                                   | Tube          |  |  |  |  |  |  |
| Alloy                                  | EN AW 6082 T6 |  |  |  |  |  |  |
| Main Chords                            | 48 x 3 mm     |  |  |  |  |  |  |
| Diagonal Members                       | 16 x 2 mm     |  |  |  |  |  |  |
| Coupling System                        | CCS6          |  |  |  |  |  |  |

Structural data can be found at www.prolyte.com

| T-48 Series - Standard available Lengths and Codes |                            |              |              |              |  |  |  |  |  |  |  |
|--|----------------------------|--------------|--------------|--------------|--|--|--|--|--|--|--|
| Metres   | Feet                       | Code         | Code         | Code         |  |  |  |  |  |  |  |
| 0.25/1.00 m in 5 mm steps                          | 0.82'/3.28', in 0.2' steps |              |              |              |  |  |  |  |  |  |  |
| 0,50   | 1.64                       | T-48-OE050OE | T-48-CC050CC | T-48-ST050ST |  |  |  |  |  |  |  |
| 1,00   | 3.28                       | T-48-OE100OE | T-48-CC100CC | T-48-ST100ST |  |  |  |  |  |  |  |
| 1,50   | 4.92                       | T-48-OE150OE | T-48-CC150CC | T-48-ST150ST |  |  |  |  |  |  |  |
| 2,00   | 6.56                       | T-48-OE200OE | T-48-CC200CC | T-48-ST200ST |  |  |  |  |  |  |  |
| 2,50   | 8.20                       | T-48-OE250OE | T-48-CC250CC | \            |  |  |  |  |  |  |  |
| 3,00   | 9.84                       | T-48-OE300OE | T-48-CC300CC | \            |  |  |  |  |  |  |  |
| 4,00   | 13.12                      | T-48-OE4000E | T-48-CC450CC | \            |  |  |  |  |  |  |  |

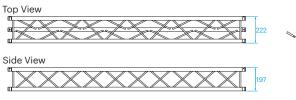


Designed as a lightweight, light-duty truss system with a mainly decorative function, the E20 Series is a small and aesthetically pleasing truss that can be used for structural purposes as well. Compact construction, optimum strength and high-tech appearance make this truss an appropriate decorative element with numerous applications. E20 Series is available in triangular and square.

Coupling system: CCS4



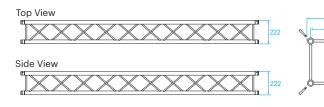
### E20D







### E20V









- 1 inch = 25,4 mm | 1m = 3.28 ft | 1 lbs = 0,453 kg
- Tüv certification only valid for loading table above.
- · Loading figures are only valid for static loads.
- Loading figures are only valid for single spans with supports at both ends.
- All static systems, other than single spans, need an individual structural calculation. Please contact a structural engineer or Prolyte for assistance.
- Loading figures are calculated according to and in full compliance with European standards (Eurocode).
- The self-weight of the trusses is already taken into account.
- Loading figures are only valid for the cross sectional orientation of the truss as shown by the icon in the loading table.
- The interaction between bending moment and shear force at the connection point is already taken into account.
- Truss spans can be assembled from different truss lengths.
- Read the manual before assembling, using and loading the truss.

| Technical Specifica | tions - E20 Series         |
|---------------------|----------------------------|
| Types               | Triangular (D), Square (V) |
| Alloy               | EN AW 6060 T66             |
| Main Chords         | 32 x 1,5 mm                |
| Diagonal Members    | 10 x 1,0 mm                |
| Coupling System     | CCS4                       |

Structural data can be found at www.prolyte.com

| E20 Series - Standard available Lengths and Codes |                            |           |  |  |  |  |  |  |
|---|----------------------------|-----------|--|--|--|--|--|--|
| Metres  | Feet                       | Code*     |  |  |  |  |  |  |
| 0.25/1.00 m in 5 mm steps                         | 0.82'/3.28', in 0.2' steps |           |  |  |  |  |  |  |
| 0,25  | 0.82                       | E20•-L025 |  |  |  |  |  |  |
| 0,50  | 1.64                       | E20•-L050 |  |  |  |  |  |  |
| 0,58  | 1.90                       | E20•-L058 |  |  |  |  |  |  |
| 1,00  | 3.28                       | E20•-L100 |  |  |  |  |  |  |
| 1,50  | 4.92                       | E20•-L150 |  |  |  |  |  |  |
| 2,00  | 6.56                       | E20•-L200 |  |  |  |  |  |  |
| 2,50  | 8.20                       | E20•-L250 |  |  |  |  |  |  |
| 3,00  | 9.84                       | E20•-L300 |  |  |  |  |  |  |
| 4,00  | 13.12                      | E20•-L400 |  |  |  |  |  |  |

\*on • indicate D for Triangular or V for Square truss

Example: E20V-L200

| <b>121</b> E | 20V - Allov | wable Loa    | ding   |       |       |          |                   |       |        |                         |                             |       |                           |                        |       |              |
|--------------|-------------|--------------|--------|-------|-------|----------|-------------------|-------|--------|-------------------------|-----------------------------|-------|---------------------------|------------------------|-------|--------------|
|              |             |              |        |       |       |          |                   |       |        |                         |                             |       |                           |                        |       |              |
|              |             |              |        |       |       |          |                   |       | MAXIMU | M ALLOWABLE POINT LOADS |                             |       |                           |                        |       |              |
|              |             | Uniformly Lo |        |       |       | Centre P | Centre Point Load |       |        |                         | d Third Points<br>per Point |       | Fourth Points<br>er Point | Single Load<br>Load pe |       |              |
| 9            | SPAN        | UE           | DL     | DEFLE | CTION | CF       | PL                | DEFLE | CTION  |                         | PL                          | QI    |                           | FPL                    |       | SPAN         |
| m            | ft          | kg/m         | lbs/ft | mm    | inch  | kgs      | lbs               | mm    | inch   | kgs                     | lbs                         | kgs   | lbs                       | kgs                    | lbs   | total weight |
| 3            | 9,8         | 123,2        | 82,9   | 8     | 0,3   | 265,7    | 586,3             | 6     | 0,2    | 184,8                   | 407,9                       | 123,2 | 272,0                     | 92,4                   | 204,0 | 6,3          |
| 4            | 13,1        | 91,9         | 61,9   | 14    | 0,5   | 209,5    | 462,3             | 11    | 0,4    | 145,7                   | 321,6                       | 115,4 | 254,6                     | 91,9                   | 202,9 | 8,4          |
| 5            | 16,4        | 73,2         | 49,2   | 21    | 0,8   | 172,3    | 380,2             | 17    | 0,7    | 120,8                   | 266,6                       | 92,6  | 204,4                     | 73,5                   | 162,1 | 10,5         |
| 6            | 19,7        | 55,1         | 37,1   | 31    | 1,2   | 145,6    | 321,4             | 25    | 1,0    | 103,3                   | 227,9                       | 77,4  | 170,8                     | 61,9                   | 136,6 | 12,6         |
| 7            | 23,0        | 40,0         | 26,9   | 42    | 1,6   | 125,6    | 277,1             | 33    | 1,3    | 89,8                    | 198,2                       | 66,2  | 146,0                     | 53,2                   | 117,5 | 14,7         |
| 8            | 26,2        | 30,2         | 20,3   | 55    | 2,2   | 109,8    | 242,4             | 44    | 1,7    | 79,1                    | 174,7                       | 57,5  | 126,9                     | 46,5                   | 102,6 | 16,8         |
| 9            | 29,5        | 23,4         | 15,8   | 69    | 2,7   | 97,1     | 214,3             | 55    | 2,2    | 70,4                    | 155,4                       | 50,5  | 111,5                     | 41,0                   | 90,6  | 18,9         |
| 10           | 32,8        | 18,6         | 12,5   | 85    | 3,4   | 86,5     | 191,0             | 68    | 2,7    | 63,2                    | 139,4                       | 44,8  | 99,0                      | 36,5                   | 80,6  | 21           |
| 11           | 36,1        | 15,1         | 10,1   | 103   | 4,1   | 77,6     | 171,2             | 83    | 3,3    | 56,9                    | 125,7                       | 40,1  | 88,4                      | 32,7                   | 72,3  | 23,1         |
| 12           | 39,4        | 12,4         | 8,3    | 123   | 4,8   | 69,9     | 154,2             | 98    | 3,9    | 51,6                    | 113,8                       | 36,0  | 79,4                      | 29,5                   | 65,1  | 25,2         |
| 13           | 42,6        | 10,2         | 6,9    | 144   | 5,7   | 63,2     | 139,4             | 115   | 4,5    | 46,9                    | 103,4                       | 32,4  | 71,5                      | 26,6                   | 58,8  | 27,3         |
| 14           | 45,9        | 8,6          | 5,8    | 167   | 6,6   | 57,2     | 126,3             | 134   | 5,3    | 42,7                    | 94,2                        | 29,3  | 64,6                      | 24,1                   | 53,3  | 29,4         |
| 15           | 49,2        | 7,2          | 4,9    | 192   | 7,6   | 51,9     | 114,5             | 154   | 6,1    | 38,9                    | 85,9                        | 26,5  | 58,5                      | 21,9                   | 48,3  | 31,5         |
| 16           | 52,5        | 6,1          | 4,1    | 219   | 8,6   | 47,1     | 103,9             | 175   | 6,9    | 35,5                    | 78,4                        | 24,0  | 53,0                      | 19,9                   | 43,9  | 33,6         |
| 17           | 55,8        | 5,2          | 3,5    | 247   | 9,7   | 42,7     | 94,3              | 198   | 7,8    | 32,4                    | 71,5                        | 21,7  | 48,0                      | 18,1                   | 39,8  | 35,7         |
| 18           | 59,0        | 4,4          | 3,0    | 277   | 10,9  | 38,7     | 85,4              | 221   | 8,7    | 29,5                    | 65,1                        | 19,7  | 43,4                      | 16,4                   | 36,1  | 37,8         |
| 19           | 62,3        | 3,8          | 2,6    | 308   | 12,1  | 35,0     | 77,2              | 247   | 9,7    | 26,8                    | 59,3                        | 17,7  | 39,2                      | 14,8                   | 32,7  | 39,9         |
| 20           | 65,6        | 3,2          | 2,2    | 342   | 13,4  | 31,5     | 69,6              | 273   | 10,8   | 24,3                    | 53,6                        | 16,0  | 35,3                      | 13,4                   | 29,5  | 42           |

- 1 inch = 25,4 mm | 1m = 3.28 ft | 1 lbs = 0,453 kg
- Tüv certification only valid for loading table above.
- Loading figures are only valid for static loads.
- Loading figures are only valid for single spans with supports at both ends.
- All static systems, other than single spans, need an individual structural calculation. Please contact a structural engineer or Prolyte for assistance.
- Loading figures are calculated according to and in full compliance with European standards (Eurocode).
- The self-weight of the trusses is already taken into account.
- Loading figures are only valid for the cross sectional orientation of the truss as shown by the icon in the loading table.
- The interaction between bending moment and shear force at the connection point is already taken into account.
- Truss spans can be assembled from different truss lengths.
- Read the manual before assembling, using and loading the truss.

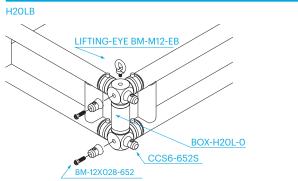


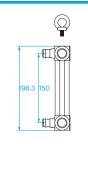


Photo: Cast

### MATRIX FRAMES FROM H20LB TRUSS

The H20LB ladder truss is a frame girder - truss without the diagonal members and with rigid joints between top and bottom chords and the verticals. The H20LB is designed to create matrix frames for circumstances where low headroom requires support grids with minimum heights, like studio installations, retail or exhibition applications. Main chords and verticals are designed from 48 mm tubes, the verticals are positioned every 500 mm, to create maximum utility between the verticals. Most standard clamps will fit the 48 mm tube. The standard BoxCorner ribs, with the Prolyte conical coupling system, guarantees fast and easy assembly when compared to traditional bolted structures.







| <b>ී</b> ⊢ | H20LB - Allowable Loading |                   |                   |         |          |              |  |  |  |  |  |
|------------|---------------------------|-------------------|-------------------|---------|----------|--------------|--|--|--|--|--|
|            |                           | Uniformly I<br>Lo | Distributed<br>ad |         |          |              |  |  |  |  |  |
| S          | PAN                       | UI                | DL                | C       | PL       |              |  |  |  |  |  |
| m          | ft                        | kg/m              | lbs/ft            | kgs     | lbs      | total weight |  |  |  |  |  |
| 1,00       | 3,30                      | 620               | 417,3             | 420     | 282,7    | 3.3          |  |  |  |  |  |
| 1,50       | 4,90                      | 350               | 235,6             | 350     | 235,6    | 4.6          |  |  |  |  |  |
| 2,00       | 6,60                      | 160               | 107,7             | 240     | 161,6    | 5.9          |  |  |  |  |  |
| 2,50       | 8,20                      | 150               | 101,0             | 200     | 134,6    | 7.2          |  |  |  |  |  |
| 3,00       | 9,80                      | 120               | 80,8              | 190     | 127,9    | 8.5          |  |  |  |  |  |
| 4,00       | 13,10                     | 70                | 47,1              | 150     | 101,0    | 9.8          |  |  |  |  |  |
| 1 inch     | = 25,4 m                  | m   1m            | = 3.28 ft         | 1 lbs = | 0,453 kg |              |  |  |  |  |  |



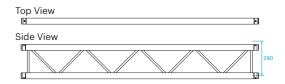




 $\,$  X30 Series truss is constructed of main chords (51 x 2 mm) and diagonals (16 x 2 mm), and uses the CCS6 coupling system. Prolyte supplies a variety of X30 Series truss modules that provide

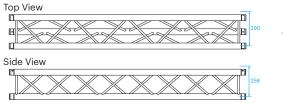
maximum flexibility, including standard or custom-made lengths, circles and arches and several types of corners. Prolyte can create custom-made pieces on request.

### X30L





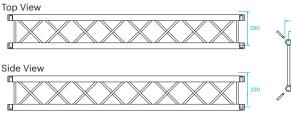
### X30D

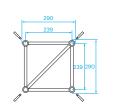






### X30V











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

- Tüv certification only valid for loading table above.
- · Loading figures are only valid for static loads.
- · Loading figures are only valid for single spans with supports at both ends.
- All static systems, other than single spans, need an individual structural calculation. Please contact a structural engineer or Prolyte for assistance.
- · Loading figures are calculated according to and in full compliance with European standards (Eurocode).
- · The self-weight of the trusses is already taken into account.
- · Loading figures are only valid for the cross sectional orientation of the truss as shown by the icon in the loading table.
- The interaction between bending moment and shear force at the connection point is already taken into account.
- Truss spans can be assembled from different truss lengths.
- Read the manual before assembling, using and loading the truss.

| Technical Specifications - X30 Series        |           |  |  |  |  |  |
|--|-----------|--|--|--|--|--|
| Types Ladder (L), Triangular (D), Square (V) |           |  |  |  |  |  |
| Alloy EN AW 6082 T6                          |           |  |  |  |  |  |
| Main Chords                                  | 51 x 2 mm |  |  |  |  |  |
| Diagonal Members                             | 16 x 2 mm |  |  |  |  |  |
| Coupling System CCS6                         |           |  |  |  |  |  |

Structural data can be found at www.prolyte.com



X Coupler - 1 ring

H Coupler - 2 rings

| X30 Series - Standard     | d available Lengths an     | d Codes   |
|---------------------------|----------------------------|-----------|
| Metres                    | Feet                       | Code*     |
| 0.25/1.00 m in 5 mm steps | 0.82'/3.28', in 0.2' steps |           |
| 0,25                      | 0.82                       | X30•-L025 |
| 0,29                      | 0.95                       | X30•-L029 |
| 0,50                      | 1.64                       | X30•-L050 |
| 0,71                      | 2.33                       | X30•-L071 |
| 0,75                      | 2.46                       | X30•-L075 |
| 1,00                      | 3.28                       | X30•-L100 |
| 1,50                      | 4.92                       | X30•-L150 |
| 2,00                      | 6.56                       | X30•-L200 |
| 2,50                      | 8.20                       | X30•-L250 |
| 3,00                      | 9.84                       | X30•-L300 |
| 4,00                      | 13.12                      | X30•-L400 |

\*on • indicate L for Ladder, D for Triangular or

V for Square truss. Example: X30V-L200

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



### X30V - Allowable Loading

| <b>23</b> XO | Allowable Educing |              |        |        |      |                   | <b>*</b> |        |       |  | <b>V</b>       |   | V.     | ¥ ¥  | **     |              |
|--------------|-------------------|--------------|--------|--------|------|-------------------|----------|--------|-------|--|----------------|---|--------|--|--------|--------------|
|              |                   |              |        |        |      |                   |          | MA     | XIMUN | 1 ALLOW                                    | ABLE PO        | INT LOA                                     | DS     |  |        |              |
|              |                   | Uniformly Di |        |        |      | Centre Point Load |          |        |       | Single Load Third Points<br>Load per Point |                | Single Load Fourth Points<br>Load per Point |        | Single Load Fifth Points<br>Load per Point |        |              |
| SP           | PAN               | UD           | L      | DEFLEC | TION | CI                | PL       | DEFLEC | TION  | TF   | <sup>2</sup> L | QPL   |        | FPL  |        | SPAN         |
| m            | ft                | kg/m         | lbs/ft | mm     | inch | kgs               | lbs      |        | inch  | kgs  | lbs            | kgs   | lbs    | kgs  | lbs    | total weight |
| 3            | 9,8               | 650,0        | 437,4  | 10     | 0,4  | 1215,0            | 2681,5   | 8      | 0,3   | 853,5                                      | 1883,6         | 650,0                                       | 1434,6 | 487,5                                      | 1076,0 | 15,3         |
| 4            | 13,1              | 486,4        | 327,3  | 18     | 0,7  | 959,5             | 2117,5   | 15     | 0,6   | 664,0                                      | 1465,5         | 523,6                                       | 1155,5 | 411,2                                      | 907,5  | 20,4         |
| 5            | 16,4              | 367,1        | 247,0  | 28     | 1,1  | 791,1             | 1746,0   | 23     | 0,9   | 555,2                                      | 1225,4         | 424,9                                       | 937,7  | 337,3                                      | 744,5  | 25,5         |
| 6            | 19,7              | 253,5        | 170,6  | 41     | 1,6  | 671,5             | 1482,0   | 33     | 1,3   | 476,1                                      | 1050,8         | 356,6                                       | 787,1  | 285,4                                      | 629,8  | 30,6         |
| 7            | 23,0              | 185,1        | 124,5  | 55     | 2,2  | 581,9             | 1284,3   | 44     | 1,7   | 415,9                                      | 918,0          | 306,5                                       | 676,5  | 246,7                                      | 544,4  | 35,7         |
| 8            | 26,2              | 140,6        | 94,6   | 72     | 2,9  | 512,2             | 1130,4   | 58     | 2,3   | 368,5                                      | 813,2          | 268,1                                       | 591,6  | 216,7                                      | 478,3  | 40,8         |
| 9            | 29,5              | 110,1        | 74,1   | 92     | 3,6  | 456,2             | 1006,8   | 73     | 2,9   | 330,0                                      | 728,3          | 237,5                                       | 524,2  | 192,7                                      | 425,4  | 45,9         |
| 10           | 32,8              | 88,3         | 59,4   | 113    | 4,5  | 410,1             | 905,1    | 91     | 3,6   | 298,1                                      | 658,0          | 212,7                                       | 469,3  | 173,1                                      | 382,0  | 51,0         |
| 11           | 36,1              | 72,2         | 48,6   | 137    | 5,4  | 371,4             | 819,7    | 110    | 4,3   | 271,2                                      | 598,6          | 191,9                                       | 423,6  | 156,6                                      | 345,7  | 56,1         |
| 12           | 39,4              | 59,9         | 40,3   | 163    | 6,4  | 338,4             | 746,9    | 131    | 5,1   | 248,1                                      | 547,6          | 174,4                                       | 384,8  | 142,7                                      | 314,8  | 61,2         |
| 13           | 42,6              | 50,4         | 33,9   | 191    | 7,5  | 309,9             | 683,9    | 153    | 6,0   | 228,1                                      | 503,4          | 159,2                                       | 351,4  | 130,6                                      | 288,2  | 66,3         |
| 14           | 45,9              | 42,8         | 28,8   | 222    | 8,7  | 284,9             | 628,7    | 178    | 7,0   | 210,5                                      | 464,5          | 146,1                                       | 322,4  | 120,0                                      | 264,8  | 71,4         |
| 15           | 49,2              | 36,7         | 24,7   | 255    | 10,0 | 262,7             | 579,8    | 204    | 8,0   | 194,8                                      | 429,9          | 134,4                                       | 296,7  | 110,7                                      | 244,2  | 76,5         |
| 16           | 52,5              | 31,7         | 21,3   | 290    | 11,4 | 242,9             | 536,1    | 232    | 9,1   | 180,8                                      | 399,0          | 124,1                                       | 273,9  | 102,3                                      | 225,9  | 81,6         |
| 17           | 55,8              | 27,6         | 18,5   | 327    | 12,9 | 225,1             | 496,8    | 262    | 10,3  | 168,1                                      | 371,0          | 114,8                                       | 253,4  | 94,8                                       | 209,3  | 86,7         |
| 18           | 59,0              | 24,1         | 16,2   | 367    | 14,4 | 208,9             | 461,1    | 294    | 11,6  | 156,6                                      | 345,6          | 106,4                                       | 234,8  | 88,0                                       | 194,3  | 91,8         |
| 19           | 62,3              | 21,2         | 14,2   | 409    | 16,1 | 194,1             | 428,5    | 327    | 12,9  | 146,0                                      | 322,3          | 98,7  | 217,9  | 81,8                                       | 180,6  | 96,9         |
| 20           | 65,6              | 18,6         | 12,5   | 453    | 17,8 | 180,5             | 398,5    | 363    | 14,3  | 136,3                                      | 300,8          | 91,7  | 202,4  | 76,1                                       | 168,1  | 102          |

 $1 \text{ inch} = 25,4 \text{ mm} \mid 1 \text{m} = 3.28 \text{ ft} \mid 1 \text{ lbs} = 0,453 \text{ kg}$ 

- Tüv certification only valid for loading table above.
- · Loading figures are only valid for static loads.
- Loading figures are only valid for single spans with supports at both ends.
- · All static systems, other than single spans, need an individual structural calculation. Please contact a structural engineer or Prolyte for assistance.
- Loading figures are calculated according to and in full compliance with European standards (Eurocode).
- The self-weight of the trusses is already taken into account.
- Loading figures are only valid for the cross sectional orientation of the truss as shown by the icon in the loading table.
- The interaction between bending moment and shear force at the connection point is already taken into
- Truss spans can be assembled from different truss lengths.
- Read the manual before aseembling, using and loading the truss.

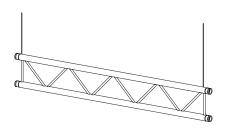






|   |      | Uniformly<br>Lo |        |       |       |       |        |            |      |
|---|------|-----------------|--------|-------|-------|-------|--------|------------|------|
| S | PAN  | UE              | DL     | DEFLE | CTION | CF    | PL PL  | DEFLECTION |      |
| m | ft   | kg/m            | lbs/ft | mm    | inch  | kgs   | lbs    | mm         | inch |
| 1 | 3,3  | 979,7           | 659,2  | 2     | 0,1   | 979,7 | 2162,2 | 1          | 0,0  |
| 2 | 6,6  | 345,0           | 232,1  | 1     | 0,1   | 345,0 | 761,4  | 1          | 0,0  |
| 3 | 9,8  | 135,0           | 90,8   | 3     | 0,1   | 203,0 | 448,0  | 2          | 0,1  |
| 4 | 13,1 | 64,0            | 43,1   | 4     | 0,2   | 128,0 | 282,5  | 3          | 0,1  |
| 5 | 16,4 | 27,0            | 18,2   | 4     | 0,2   | 67,0  | 147,9  | 3          | 0,1  |
| 6 | 19,7 | 12,0            | 8,1    | 4     | 0,1   | 36,0  | 79,5   | 3          | 0,1  |

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

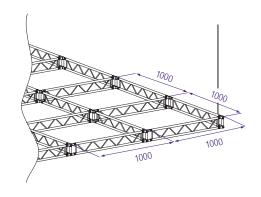


Spans must be supported at each end. Loads must be suspended from bottom chord only.

### X30L - Allowable Loading (Top chord sideways supported each metre.)

|    |      | Uniformly I<br>Lo |        |       |       |       |        |            |      |
|----|------|-------------------|--------|-------|-------|-------|--------|------------|------|
| S  | PAN  | UE                | DL     | DEFLE | CTION | CF    | PL PL  | DEFLECTION |      |
| m  | ft   | kg/m              | lbs/ft | mm    | inch  | kgs   | lbs    | mm         | inch |
| 4  | 13,1 | 243,2             | 163,7  | 18    | 0,7   | 459,8 | 1014,8 | 15         | 0,6  |
| 5  | 16,4 | 176,3             | 118,6  | 28    | 1,1   | 381,7 | 842,3  | 23         | 0,9  |
| 6  | 19,7 | 123,2             | 82,9   | 41    | 1,6   | 325,5 | 718,3  | 33         | 1,3  |
| 7  | 23,0 | 90,6              | 61,0   | 55    | 2,2   | 283,0 | 624,7  | 44         | 1,7  |
| 8  | 26,2 | 69,2              | 46,6   | 72    | 2,9   | 249,8 | 551,2  | 58         | 2,3  |
| 9  | 29,5 | 54,4              | 36,6   | 92    | 3,6   | 222,9 | 492,0  | 73         | 2,9  |
| 10 | 32,8 | 43,7              | 29,4   | 113   | 4,5   | 200,7 | 443,0  | 91         | 3,6  |
| 11 | 36,1 | 35,8              | 24,1   | 137   | 5,4   | 182,1 | 401,8  | 110        | 4,3  |
| 12 | 39,4 | 29,8              | 20,0   | 163   | 6,4   | 166,1 | 366,5  | 131        | 5,1  |

 $1 \text{ inch} = 25,4 \text{ mm} \mid 1 \text{m} = 3.28 \text{ ft} \mid 1 \text{ lbs} = 0,453 \text{ kg}$ 



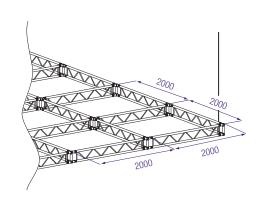
Spans must be supported at each end.

Loads must be suspended from bottom chord only.

### X30L - Allowable Loading (Top chords sideways supported every 2 metres.)

|    | U    | niformly Di<br>Load |        |       |       |       |       |       |       |
|----|------|---------------------|--------|-------|-------|-------|-------|-------|-------|
| S  | PAN  | UE                  | )L     | DEFLE | CTION | CF    | PL PL | DEFLE | CTION |
| m  | ft   | kg/m                | lbs/ft | mm    | inch  | kgs   | lbs   | mm    | inch  |
| 4  | 13,1 | 84,6                | 56,9   | 5     | 0,2   | 169,1 | 373,3 | 4     | 0,2   |
| 5  | 16,4 | 53,3                | 35,9   | 8     | 0,3   | 133,3 | 294,1 | 7     | 0,3   |
| 6  | 19,7 | 36,3                | 24,4   | 12    | 0,5   | 109,0 | 240,6 | 10    | 0,4   |
| 7  | 23,0 | 26,1                | 17,6   | 17    | 0,7   | 91,3  | 201,6 | 13    | 0,5   |
| 8  | 26,2 | 19,5                | 13,1   | 22    | 0,9   | 77,8  | 171,7 | 17    | 0,7   |
| 9  | 29,5 | 14,9                | 10,0   | 27    | 1,1   | 67,0  | 148,0 | 22    | 0,9   |
| 10 | 32,8 | 11,6                | 7,8    | 34    | 1,3   | 58,2  | 128,4 | 27    | 1,1   |
| 11 | 36,1 | 9,2                 | 6,2    | 41    | 1,6   | 50,8  | 112,0 | 33    | 1,3   |
| 12 | 39,4 | 7,4                 | 5,0    | 49    | 1,9   | 44,4  | 97,9  | 39    | 1,5   |

1 inch = 25,4 mm  $\mid$  1m = 3.28 ft  $\mid$  1 lbs = 0,453 kg



Spans must be supported at each end.

Loads must be suspended from bottom chord only.



H30 Series truss is constructed of main chords (48 x 3 mm) and diagonals (16 x 2 mm), and uses the CCS6 coupling system. Prolyte supplies a variety of H30 series truss elements that provide maximum flexibility, including standard or custom-made

lengths, circles and arches and several types of corners. Prolyte can create custom-made pieces on request.

# H30D Top View Side View





### H30D - Allowable Loading

|    |      |             |        |       |       |          |           | М      | AXIMU | M ALLOV | VABLE POI                   | NT LOAD | S                         |                       |                          |              |
|----|------|-------------|--------|-------|-------|----------|-----------|--------|-------|---------|-----------------------------|---------|---------------------------|-----------------------|--------------------------|--------------|
|    |      | Uniformly D |        |       |       | Centre P | oint Load |        |       |         | d Third Points<br>per Point |         | Fourth Points<br>er Point | Single Load<br>Load p | Fifth Points<br>er Point |              |
| S  | PAN  | UD          | L      | DEFLE | CTION | CI       | PL PL     | DEFLEC | CTION | Т       | PL                          | QI      | PL                        | FF                    | L                        | SPAN         |
| m  |      | kg/m        | lbs/ft | mm    | inch  | kgs      | lbs       |        | inch  | kgs     | lbs                         | kgs     | lbs                       | kgs                   | lbs                      | total weight |
| 3  | 9,8  | 562,4       | 378,4  | 13    | 0,5   | 782,3    | 1726,6    | 11     | 0,4   | 546,6   | 1206,4                      | 422,2   | 931,8                     | 334,1                 | 737,4                    | 15,0         |
| 4  | 13,1 | 342,0       | 230,1  | 23    | 0,9   | 606,0    | 1337,5    | 19     | 0,7   | 430,3   | 949,7                       | 321,3   | 709,2                     | 257,4                 | 568,1                    | 20,0         |
| 5  | 16,4 | 217,3       | 146,2  | 37    | 1,5   | 492,8    | 1087,6    | 29     | 1,2   | 353,7   | 780,6                       | 258,4   | 570,2                     | 208,6                 | 460,4                    | 25,0         |
| 6  | 19,7 | 149,5       | 100,6  | 53    | 2,1   | 413,6    | 912,8     | 42     | 1,7   | 299,3   | 660,5                       | 215,2   | 474,9                     | 174,7                 | 385,5                    | 30,0         |
| 7  | 23,0 | 108,6       | 73,1   | 72    | 2,8   | 354,9    | 783,2     | 57     | 2,3   | 258,4   | 570,4                       | 183,6   | 405,1                     | 149,6                 | 330,3                    | 35,0         |
| 8  | 26,2 | 82,1        | 55,3   | 94    | 3,7   | 309,4    | 682,8     | 75     | 3,0   | 226,6   | 500,0                       | 159,3   | 351,6                     | 130,3                 | 287,7                    | 40,0         |
| 9  | 29,5 | 63,9        | 43,0   | 118   | 4,6   | 273,0    | 602,4     | 95     | 3,7   | 200,9   | 443,4                       | 140,1   | 309,2                     | 114,9                 | 253,6                    | 45,0         |
| 10 | 32,8 | 50,9        | 34,3   | 146   | 5,7   | 243,1    | 536,4     | 117    | 4,6   | 179,7   | 396,6                       | 124,4   | 274,5                     | 102,3                 | 225,8                    | 50,0         |
| 11 | 36,1 | 41,3        | 27,8   | 177   | 7,0   | 217,9    | 481,0     | 142    | 5,6   | 161,8   | 357,2                       | 111,2   | 245,5                     | 91,7                  | 202,4                    | 55,0         |
| 12 | 39,4 | 34,0        | 22,9   | 211   | 8,3   | 196,5    | 433,6     | 169    | 6,6   | 146,5   | 323,4                       | 100,1   | 220,9                     | 82,7                  | 182,5                    | 60,0         |
| 13 | 42,6 | 28,3        | 19,0   | 247   | 9,7   | 177,8    | 392,5     | 198    | 7,8   | 133,2   | 294,0                       | 90,4    | 199,6                     | 74,9                  | 165,2                    | 65,0         |
| 14 | 45,9 | 23,8        | 16,0   | 287   | 11,3  | 161,4    | 356,3     | 229    | 9,0   | 121,5   | 268,1                       | 82,0    | 180,9                     | 68,0                  | 150,1                    | 70,0         |
| 15 | 49,2 | 20,1        | 13,6   | 329   | 13,0  | 146,9    | 324,1     | 263    | 10,4  | 111,0   | 245,0                       | 74,5    | 164,3                     | 61,9                  | 136,6                    | 75,0         |
| 16 | 52,5 | 17,2        | 11,5   | 375   | 14,8  | 133,8    | 295,3     | 300    | 11,8  | 101,6   | 224,2                       | 67,7    | 149,5                     | 56,4                  | 124,5                    | 60,8         |

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

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- Loading figures are only valid for single spans with supports at both ends.
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- Loading figures are calculated according to and in full compliance with European standards (Eurocode).
- The self-weight of the trusses is already taken into account.
- · Loading figures are only valid for the cross sectional orientation of the truss as shown by the icon in the loading table.
- · The interaction between bending moment and shear force at the connection point is already taken into account.
- Truss spans can be assembled from different truss lengths.
- Read the manual before assembling, using and loading the truss.

| Technical Specifica                          | Technical Specifications - H30 Series |  |  |  |  |  |  |  |  |  |  |
|--|---------------------------------------|--|--|--|--|--|--|--|--|--|--|
| Types Ladder (L), Triangular (D), Square (V) |                                       |  |  |  |  |  |  |  |  |  |  |
| Alloy EN AW 6082 T6                          |                                       |  |  |  |  |  |  |  |  |  |  |
| Main Chords                                  | 48 x 3 mm                             |  |  |  |  |  |  |  |  |  |  |
| Diagonal Members                             | 16 x 2 mm                             |  |  |  |  |  |  |  |  |  |  |
| Coupling System CCS6                         |                                       |  |  |  |  |  |  |  |  |  |  |

Structural data can be found at www.prolyte.com



X Coupler - 1 ring

H Coupler - 2 rings

The number of recessed rings in the conical receiver distinguishes the X and H Series.

| H30 Series - Standard available Lengths and Codes |                            |           |  |  |  |  |  |  |  |  |  |  |
|---|----------------------------|-----------|--|--|--|--|--|--|--|--|--|--|
| Metres  | Feet                       | Code*     |  |  |  |  |  |  |  |  |  |  |
| 0.25/1.00 m in 5 mm steps                         | 0.82'/3.28', in 0.2' steps |           |  |  |  |  |  |  |  |  |  |  |
| 0,25  | 0.82                       | H30•-L025 |  |  |  |  |  |  |  |  |  |  |
| 0,29  | 0.95                       | H30•-L029 |  |  |  |  |  |  |  |  |  |  |
| 0,50  | 1.64                       | H30•-L050 |  |  |  |  |  |  |  |  |  |  |
| 0,71  | 2.33                       | H30•-L071 |  |  |  |  |  |  |  |  |  |  |
| 1,00  | 3.28                       | H30•-L100 |  |  |  |  |  |  |  |  |  |  |
| 1,50  | 4.92                       | H30•-L150 |  |  |  |  |  |  |  |  |  |  |
| 2,00  | 6.56                       | H30•-L200 |  |  |  |  |  |  |  |  |  |  |
| 2,50  | 8.20                       | H30•-L250 |  |  |  |  |  |  |  |  |  |  |

4,00 13.12 History • indicate L for Ladder, D for Triangular or

9.84

V for Square truss. Example: H30V-L200

3,00

H30--L300

| 7 H30V - Allowable Loading |      |       |                        |        |       |        |            |       |       |         |                             |          |                           |                           |        |              |
|----------------------------|------|-------|------------------------|--------|-------|--------|------------|-------|-------|---------|-----------------------------|----------|---------------------------|---------------------------|--------|--------------|
| _                          |      |       |                        |        |       |        | <b>V</b>   |       |       |         |                             |          |                           |                           |        |              |
|                            |      |       |                        |        |       |        |            | N     | MIXAN | JM ALLO | WABLE PO                    | DINT LOA | ADS                       |                           |        |              |
|                            |      |       | ly Distributed<br>Load |        |       | Centre | Point Load |       |       |         | d Third Points<br>per Point |          | Fourth Points<br>er Point | Single Load I<br>Load per |        |              |
| S                          | PAN  | u     | IDL                    | DEFLEC | CTION | CPL    |            | DEFLE | CTION | Т       | PL                          | QI       | PL                        | FPL                       |        | SPAN         |
| m                          | ft   | kg/m  | lbs/ft                 | mm     | inch  | kgs    | lbs        | mm    | inch  | kgs     | lbs                         | kgs      | lbs                       | kgs                       | lbs    | total weight |
| 3                          | 9,8  | 649,0 | 436,7                  | 10     | 0,4   | 1667,9 | 3681,0     | 8     | 0,3   | 973,4   | 2148,4                      | 649,0    | 1432,2                    | 486,7                     | 1074,2 | 18,9         |
| 4                          | 13,1 | 485,3 | 326,5                  | 18     | 0,7   | 1298,1 | 2864,9     | 15    | 0,6   | 932,1   | 2057,2                      | 647,1    | 1428,1                    | 485,3                     | 1071,1 | 25,2         |
| 5                          | 16,4 | 387,1 | 260,5                  | 28     | 1,1   | 1074,2 | 2370,9     | 23    | 0,9   | 749,1   | 1653,3                      | 581,1    | 1282,5                    | 469,0                     | 1035,1 | 31,5         |
| 6                          | 19,7 | 321,6 | 216,4                  | 41     | 1,6   | 914,4  | 2018,2     | 33    | 1,3   | 644,7   | 1422,8                      | 488,7    | 1078,6                    | 389,3                     | 859,3  | 37,8         |
| 7                          | 23,0 | 255,6 | 172,0                  | 56     | 2,2   | 794,4  | 1753,2     | 45    | 1,8   | 564,8   | 1246,5                      | 420,7    | 928,6                     | 337,3                     | 744,4  | 44,1         |
| 8                          | 26,2 | 194,4 | 130,8                  | 73     | 2,9   | 700,6  | 1546,3     | 58    | 2,3   | 501,6   | 1107,0                      | 368,5    | 813,3                     | 296,9                     | 655,2  | 50,4         |
| 9                          | 29,5 | 152,4 | 102,5                  | 92     | 3,6   | 625,2  | 1379,9     | 74    | 2,9   | 450,2   | 993,7                       | 327,0    | 721,8                     | 264,5                     | 583,8  | 56,7         |
| 10                         | 32,8 | 122,3 | 82,3                   | 114    | 4,5   | 563,2  | 1242,9     | 91    | 3,6   | 407,6   | 899,5                       | 293,2    | 647,1                     | 238,0                     | 525,2  | 63,0         |
| 11                         | 36,1 | 100,1 | 67,4                   | 137    | 5,4   | 511,0  | 1127,8     | 110   | 4,3   | 371,5   | 820,0                       | 265,1    | 585,0                     | 215,7                     | 476,1  | 69,3         |
| 12                         | 39,4 | 83,2  | 56,0                   | 164    | 6,5   | 466,5  | 1029,6     | 131   | 5,2   | 340,6   | 751,7                       | 241,2    | 532,3                     | 196,8                     | 434,3  | 75,6         |
| 13                         | 42,6 | 70,1  | 47,2                   | 192    | 7,6   | 428,0  | 944,6      | 154   | 6,1   | 313,7   | 692,4                       | 220,7    | 487,0                     | 180,5                     | 398,3  | 81,9         |
| 14                         | 45,9 | 59,6  | 40,1                   | 223    | 8,8   | 394,3  | 870,2      | 178   | 7,0   | 290,1   | 640,2                       | 202,8    | 447,5                     | 166,2                     | 366,8  | 88,2         |
| 15                         | 49,2 | 51,2  | 34,5                   | 256    | 10,1  | 364,5  | 804,3      | 205   | 8,1   | 269,1   | 593,8                       | 187,0    | 412,8                     | 153,6                     | 338,9  | 94,5         |
| 16                         | 52,5 | 44,3  | 29,8                   | 291    | 11,5  | 337,8  | 745,5      | 233   | 9,2   | 250,3   | 552,3                       | 173,0    | 381,9                     | 142,3                     | 314,1  | 100,8        |
| 17                         | 55,8 | 38,6  | 26,0                   | 328    | 12,9  | 313,8  | 692,5      | 263   | 10,4  | 233,3   | 514,9                       | 160,4    | 354,1                     | 132,2                     | 291,8  | 107,1        |
| 18                         | 59,0 | 33,8  | 22,8                   | 368    | 14,5  | 292,0  | 644,5      | 295   | 11,6  | 217,9   | 480,8                       | 149,1    | 329,0                     | 123,1                     | 271,6  | 113,4        |
| 19                         | 62,3 | 29,8  | 20,0                   | 410    | 16,1  | 272,2  | 600,7      | 328   | 12,9  | 203,7   | 449,6                       | 138,7    | 306,2                     | 114,7                     | 253,2  | 119,7        |
| 20                         | 65,6 | 26,3  | 17,7                   | 454    | 17,9  | 253,9  | 560,4      | 364   | 14,3  | 190,7   | 420,9                       | 129,3    | 285,3                     | 107,1                     | 236,3  | 126          |

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



- Loading figures are only valid for static loads.
- Loading figures are only valid for single spans with supports at both ends.
- All static systems, other than single spans, need an individual structural calculation. Please contact a structural engineer or Prolyte for assistance.
- Loading figures are calculated according to and in full compliance with European standards (Eurocode).
- The self-weight of the trusses is already taken into account.
- Loading figures are only valid for the cross sectional orientation of the truss as shown by the icon in the loading table.
- The interaction between bending moment and shear force at the connection point is already taken into account.
- Truss spans can be assembled from different truss lengths.
- Read the manual before assembling, using and loading the truss.

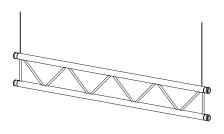






|   |      |       | Distributed<br>ad |       |       |       |        |       |       |
|---|------|-------|-------------------|-------|-------|-------|--------|-------|-------|
| S | PAN  | UE    | DL                | DEFLE | CTION | CF    | PL PL  | DEFLE | CTION |
| m | ft   | kg/m  | lbs/ft            | mm    | inch  | kgs   | lbs    | mm    | inch  |
| 1 | 3,3  | 979,2 | 658,9             | 1     | 0,0   | 979,2 | 2161,2 | 1     | 0,0   |
| 2 | 6,6  | 389,0 | 261,7             | 1     | 0,0   | 389,0 | 858,5  | 1     | 0,0   |
| 3 | 9,8  | 156,0 | 105,0             | 2     | 0,1   | 234,0 | 516,4  | 2     | 0,1   |
| 4 | 13,1 | 73,0  | 49,1              | 3     | 0,1   | 146,0 | 322,2  | 3     | 0,1   |
| 5 | 16,4 | 36,0  | 24,2              | 4     | 0,2   | 90,0  | 198,6  | 3     | 0,1   |
| 6 | 19,7 | 15,0  | 10,1              | 3     | 0,1   | 45,0  | 99,3   | 3     | 0,1   |

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



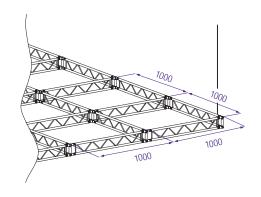
Spans must be supported at each end.

Loads must be suspended from bottom chord only.

### H30L - Allowable Loading (Top chord sideways supported each meter.)

|    |      |       | Distributed<br>ad |       |       |       |        |       |       |
|----|------|-------|-------------------|-------|-------|-------|--------|-------|-------|
| S  | PAN  | UE    | DL                | DEFLE | CTION | CF    | PL     | DEFLE | CTION |
| m  |      | kg/m  | lbs/ft            | mm    | inch  | kgs   | lbs    | mm    | inch  |
| 4  | 13,1 | 242,8 | 163,4             | 18    | 0,7   | 619,9 | 1368,1 | 15    | 0,6   |
| 5  | 16,4 | 193,7 | 130,3             | 28    | 1,1   | 516,7 | 1140,5 | 23    | 0,9   |
| 6  | 19,7 | 161,0 | 108,3             | 41    | 1,6   | 442,2 | 975,9  | 33    | 1,3   |
| 7  | 23,0 | 124,6 | 83,9              | 56    | 2,2   | 385,6 | 851,0  | 45    | 1,8   |
| 8  | 26,2 | 95,4  | 64,2              | 73    | 2,9   | 341,1 | 752,9  | 58    | 2,3   |
| 9  | 29,5 | 75,1  | 50,5              | 92    | 3,6   | 305,2 | 673,6  | 74    | 2,9   |
| 10 | 32,8 | 60,5  | 40,7              | 114   | 4,5   | 275,5 | 608,0  | 91    | 3,6   |
| 11 | 36,1 | 49,6  | 33,4              | 137   | 5,4   | 250,4 | 552,7  | 110   | 4,3   |
| 12 | 39,4 | 41,4  | 27,8              | 164   | 6,4   | 229,0 | 505,3  | 131   | 5,2   |

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



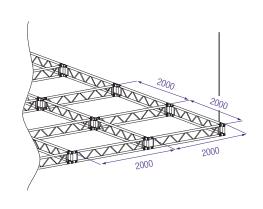
Spans must be supported at each end.

Loads must be suspended from bottom chord only.

### H30L - Allowable Loading (Top chords sideways supported every 2 meters.)

|    |      | Uniformly I<br>Lo | Distributed<br>ad |       |       |       |       |       |       |
|----|------|-------------------|-------------------|-------|-------|-------|-------|-------|-------|
| S  | PAN  | UE                | DL                | DEFLE | CTION | CF    | PL    | DEFLE | CTION |
| m  | ft   | kg/m              | lbs/ft            | mm    | inch  | kgs   | lbs   | mm    | inch  |
| 4  | 13,1 | 95,2              | 64,1              | 4     | 0,2   | 190,5 | 420,3 | 4     | 0,1   |
| 5  | 16,4 | 60,0              | 40,4              | 7     | 0,3   | 149,9 | 330,9 | 6     | 0,2   |
| 6  | 19,7 | 40,8              | 27,5              | 10    | 0,4   | 122,5 | 270,3 | 8     | 0,3   |
| 7  | 23,0 | 29,3              | 19,7              | 14    | 0,5   | 102,5 | 226,1 | 11    | 0,4   |
| 8  | 26,2 | 21,8              | 14,7              | 18    | 0,7   | 87,1  | 192,3 | 14    | 0,6   |
| 9  | 29,5 | 16,6              | 11,2              | 23    | 0,9   | 74,9  | 165,3 | 18    | 0,7   |
| 10 | 32,8 | 13,0              | 8,7               | 28    | 1,1   | 64,8  | 143,1 | 22    | 0,9   |
| 11 | 36,1 | 10,2              | 6,9               | 34    | 1,3   | 56,4  | 124,4 | 27    | 1,1   |
| 12 | 39,4 | 8,2               | 5,5               | 40    | 1,6   | 49,1  | 108,3 | 32    | 1,3   |

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.



Photo: © Prolyte, Introduction of the Verto Truss at Prolight + Sound, Frankfurt, Germany

### **ROTATING COUPLING SYSTEM**

The Verto\* truss is based on a new principle of truss connection, where the sections are joined by a rotating coupler system. This system has great advantages over existing systems. The name Verto is derived from Latin, meaning to turn or to turn around and that is exactly how this coupler works. A simple flick of your wrist will connect the truss modules.

The Verto truss is designed as an additional system, for those circumstances where its specific characteristics come into

play, like the silent connection and reduced assembly time. Its structure resembles that of the standard H30V truss.

### **COUPLING SYSTEM: VER6-600**



# VER-H3OV Top View 289 Side View 289 239 289







### **BRINGING BENEFITS TO THE WORK FLOOR**

This truss can greatly benefit the daily working practice for technicians, its tool-less connection is almost completely silent, thereby greatly adding to safety on the work floor. Tested general sound levels are around 55dB, where a conical truss system generates a sound level of 80dB during assembly. Furthermore, it reduces the assembly and disassembly time. Tested general assembly times are up to 5 times faster than those for truss with conical coupling systems and 10 times faster than any bolted truss.



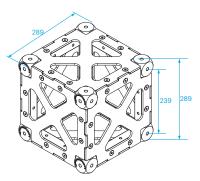


### **VERTO SYSTEM BENEFITS**

- Tool-less system, no tools needed assembly and disassembly.
- · Safety indication: when the red ring is still visible, the connection is not (fully) closed.
- · No protruding parts, ideal for attaching banners or drapes.
- Bringing safety to the work floor its silent connection adds greatly to work floor communication.
- · Incredible fast connection and disconnection, reducing production time.
- Strong and compact, based on the H30V truss with similar loading capacity.
- · Coupling parts can be replaced, prolonging the general lifetime of your truss.
- · Versatile system with many application possibilities, the additional box corner completes the system.

### BOX-30V-HD-0

Box corner for Verto truss.





### VER6-600

Conical coupler 600 series for Verto truss



### VER6-652S

Coupler half male To be used with bolt VER-M12x030-652S



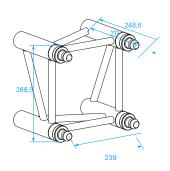
### VER6-605

A plastic clip is available as a secondary safety measure. It can be simply clipped into place when a visual identifier is required.



### VER-BOX-30V-A-001

Boxcorner attachment To be used with BM-M12xO35-IB, DIN 912 hexagon bolt



### VER6-649

Coupler half male for base plate





### VER-H30V - Allowable Loading

| <i>8</i> 26 |      |              |        | J     |       | •        |           |       |       | , v                    | N.      | × ×                     | ***                       |       | <b>*</b>                 |              |
|-------------|------|--------------|--------|-------|-------|----------|-----------|-------|-------|------------------------|---------|-------------------------|---------------------------|-------|--------------------------|--------------|
|             |      |              |        |       |       |          |           |       | MAXIN | IUM ALLO               | WABLE P | OINT LOAI               | os                        |       |                          |              |
|             |      | Uniformly Lo |        |       |       | Centre P | oint Load |       |       | Single Load<br>Load pe |         | Single Load I<br>Load p | Fourth Points<br>er Point |       | Fifth Points<br>er Point |              |
| S           | SPAN | UE           | )L     | DEFLE | CTION | CF       | PL        | DEFLE | CTION | TP                     | L       | QF                      | PL PL                     | FF    | L                        | SPAN         |
| m           | ft   | kg/m         | lbs/ft | mm    | inch  | kgs      | lbs       | mm    | inch  | kgs                    | lbs     | kgs                     | lbs                       | kgs   | lbs                      | total weight |
| 3           | 9,8  | 647,4        | 435,6  | 10    | 0,4   | 1557,0   | 3436,4    | 8     | 0,3   | 971,1                  | 2143,3  | 647,4                   | 1428,9                    | 485,6 | 1071,6                   | 21,4         |
| 4           | 13,1 | 483,8        | 325,5  | 18    | 0,7   | 1228,7   | 2711,7    | 15    | 0,6   | 862,4                  | 1903,3  | 645,0                   | 1423,6                    | 483,8 | 1067,7                   | 28,4         |
| 5           | 16,4 | 385,6        | 259,4  | 28    | 1,1   | 1025,0   | 2262,2    | 23    | 0,9   | 702,7                  | 1550,8  | 565,7                   | 1248,4                    | 449,8 | 992,7                    | 35,5         |
| 6           | 19,7 | 320,1        | 215,4  | 41    | 1,6   | 877,2    | 1935,9    | 33    | 1,3   | 609,1                  | 1344,2  | 476,9                   | 1052,6                    | 375,4 | 828,5                    | 42,6         |
| 7           | 23,0 | 254,1        | 170,9  | 56    | 2,2   | 764,6    | 1687,4    | 45    | 1,8   | 536,3                  | 1183,6  | 411,1                   | 907,3                     | 326,1 | 719,7                    | 49,7         |
| 8           | 26,2 | 192,8        | 129,7  | 73    | 2,9   | 675,8    | 1491,4    | 58    | 2,3   | 477,9                  | 1054,8  | 360,2                   | 794,9                     | 287,4 | 634,4                    | 56,8         |
| 9           | 29,5 | 150,8        | 101,5  | 92    | 3,6   | 603,7    | 1332,3    | 74    | 2,9   | 430,0                  | 949,0   | 319,5                   | 705,2                     | 256,3 | 565,6                    | 63,9         |
| 10          | 32,8 | 120,8        | 81,3   | 114   | 4,5   | 543,9    | 1200,3    | 91    | 3,6   | 389,8                  | 860,2   | 286,2                   | 631,6                     | 230,5 | 508,7                    | 71           |
| 11          | 36,1 | 98,6         | 66,3   | 137   | 5,4   | 493,3    | 1088,6    | 110   | 4,3   | 355,5                  | 784,6   | 258,3                   | 570,1                     | 208,8 | 460,8                    | 78,1         |
| 12          | 39,4 | 81,7         | 55,0   | 164   | 6,5   | 449,8    | 992,7     | 131   | 5,2   | 325,8                  | 719,1   | 234,6                   | 517,7                     | 190,2 | 419,8                    | 85,2         |
| 13          | 42,6 | 68,5         | 46,1   | 192   | 7,6   | 411,9    | 909,1     | 154   | 6,1   | 299,8                  | 661,7   | 214,0                   | 472,4                     | 174,1 | 384,2                    | 92,3         |
| 14          | 45,9 | 58,1         | 39,1   | 223   | 8,8   | 378,6    | 835,5     | 178   | 7,0   | 276,8                  | 611,0   | 196,1                   | 432,8                     | 159,9 | 352,9                    | 99,4         |
| 15          | 49,2 | 49,7         | 33,4   | 256   | 10,1  | 348,9    | 770,0     | 205   | 8,1   | 256,3                  | 565,6   | 180,2                   | 397,7                     | 147,3 | 325,1                    | 106,5        |
| 16          | 52,5 | 42,8         | 28,8   | 291   | 11,5  | 322,2    | 711,1     | 233   | 9,2   | 237,7                  | 524,6   | 166,0                   | 366,4                     | 136,0 | 300,2                    | 113,6        |
| 17          | 55,8 | 37,1         | 25,0   | 328   | 12,9  | 298,1    | 657,9     | 263   | 10,4  | 220,9                  | 487,4   | 153,2                   | 338,2                     | 125,8 | 277,7                    | 120,7        |
| 18          | 59,0 | 32,3         | 21,7   | 368   | 14,5  | 276,1    | 609,3     | 295   | 11,6  | 205,4                  | 453,4   | 141,6                   | 312,6                     | 116,5 | 257,2                    | 127,8        |
| 19          | 62,3 | 28,3         | 19,0   | 410   | 16,1  | 255,9    | 564,8     | 328   | 12,9  | 191,2                  | 422,1   | 131,0                   | 289,2                     | 108,0 | 238,4                    | 134,9        |
| 20          | 65,6 | 24,8         | 16,7   | 454   | 17,9  | 237,3    | 523,6     | 364   | 14,3  | 178,1                  | 393,0   | 121,3                   | 267,6                     | 100,2 | 221,1                    | 142          |

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



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- Loading figures are only valid for static loads.
- Loading figures are only valid for single spans with supports at both ends.
- All static systems, other than single spans, need an individual structural calculation. Please contact a structural engineer or Prolyte for assistance.
- Loading figures are calculated according to and in full compliance with European standards (Eurocode).
- The self-weight of the trusses is already taken into account.
- Loading figures are only valid for the cross sectional orientation of the truss as shown by the icon in the loading table.
- The interaction between bending moment and shear force at the connection point is already taken into account.
- Truss spans can be assembled from different truss lengths.
- Read the manual before assembling, using and loading the truss.

| Technical Specifications - Verto |               |  |  |  |  |  |  |  |  |  |
|----------------------------------|---------------|--|--|--|--|--|--|--|--|--|
| Type VER-H30V                    |               |  |  |  |  |  |  |  |  |  |
| Alloy                            | EN AW 6082 T6 |  |  |  |  |  |  |  |  |  |
| Main Chords                      | 48 x 3 mm     |  |  |  |  |  |  |  |  |  |
| Diagonal Members                 | 16 x 2 mm     |  |  |  |  |  |  |  |  |  |
| Coupling System                  | Verto, CrMo4  |  |  |  |  |  |  |  |  |  |

| VER-H30V - S | tandard available Le | engths and Codes |
|--------------|----------------------|------------------|
| Metres       | Feet                 | Code             |
| 0,25         | 0.82                 | VER-H30V-L025    |
| 0,29         | 0.95                 | VER-H30V-L029    |
| 0,50         | 1.64                 | VER-H30V-L050    |
| 0,71         | 2.33                 | VER-H30V-L071    |
| 1,00         | 3.28                 | VER-H30V-L100    |
| 1,50         | 4.57                 | VER-H30V-L150    |
| 2,00         | 6.56                 | VER-H30V-L200    |
| 2,50         | 8.20                 | VER-H30V-L250    |
| 3,00         | 9.84                 | VER-H30V-L300    |
| 4,00         | 13.12                | VER-H30V-L400    |
|              |                      |                  |





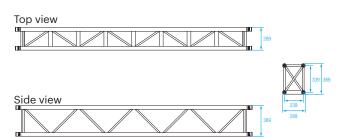
Photo: Prolyte at Prolight + Sound, Frankfurt, Germany

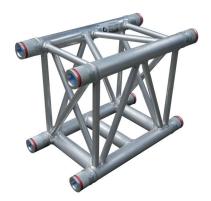
The Verto-H40V offers extra strength compared to the Verto-H30V, next to its flexible application possibilities and is the ideal solution for the event or exhibition market.

The Verto-H40R has a clever program of specifications; compact

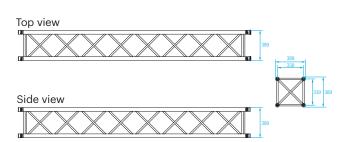
and strong, and three-sided webbing. The thicker braces on the bottom side allow easy mounting of moving heads and central loading, reducing the torsion effect resulting from one-sided loading in standard trusses.

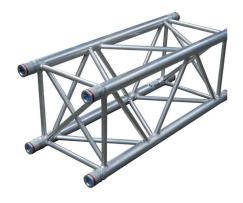
### VER-H40R





### VER-H40V





| <b>X</b> v | VER-H40V - Allowable Loading |       |                   |       |       |          |           |       |       |             |                          |             |                           |       |                          |              |
|------------|------------------------------|-------|-------------------|-------|-------|----------|-----------|-------|-------|-------------|--------------------------|-------------|---------------------------|-------|--------------------------|--------------|
|            |                              |       |                   |       |       |          |           | M     | AXIMU | M ALLO\     | WABLE P                  |             | ADS                       | A     |                          |              |
|            |                              |       | Distributed<br>ad |       |       | Centre P | oint Load |       |       | Single Load | Third Points<br>er Point | Single Load | Fourth Points<br>er Point |       | Fifth Points<br>er Point |              |
| S          | PAN                          | UE    |                   | DEFLE | CTION | CF       | PL PL     | DEFLE | CTION | TE          |                          | QI          |                           | FF    |                          | SPAN         |
| m          | ft                           | kg/m  | lbs/ft            | mm    | inch  | kgs      | lbs       | mm    | inch  | kgs         | lbs                      | kgs         | lbs                       | kgs   | lbs                      | total weight |
| 3          | 9,8                          | 834,5 | 561,5             | 7     | 0,3   | 2011,3   | 4438,9    | 6     | 0,2   | 1251,7      | 2762,5                   | 834,5       | 1841,7                    | 625,8 | 1381,2                   | 24           |
| 4          | 13,1                         | 624,0 | 419,9             | 13    | 0,5   | 1595,7   | 3521,8    | 10    | 0,4   | 1100,7      | 2429,2                   | 832,1       | 1836,4                    | 624,0 | 1377,3                   | 32           |
| 5          | 16,4                         | 497,8 | 334,9             | 20    | 0,8   | 1352,2   | 2984,4    | 16    | 0,6   | 915,7       | 2021,0                   | 768,2       | 1695,3                    | 612,0 | 1350,7                   | 40           |
| 6          | 19,7                         | 413,6 | 278,3             | 29    | 1,1   | 1171,3   | 2585,1    | 23    | 0,9   | 793,0       | 1750,2                   | 656,1       | 1448,0                    | 506,0 | 1116,8                   | 48           |
| 7          | 23,0                         | 353,5 | 237,9             | 40    | 1,6   | 1031,4   | 2276,3    | 32    | 1,2   | 706,6       | 1559,4                   | 569,5       | 1256,9                    | 443,4 | 978,6                    | 56           |
| 8          | 26,2                         | 276,5 | 186,1             | 52    | 2,0   | 919,6    | 2029,6    | 41    | 1,6   | 636,2       | 1404,1                   | 502,1       | 1108,2                    | 394,0 | 869,5                    | 64           |
| 9          | 29,5                         | 217,0 | 146,0             | 65    | 2,6   | 828,2    | 1827,8    | 52    | 2,1   | 577,6       | 1274,8                   | 448,1       | 988,9                     | 353,8 | 780,9                    | 72           |
| 10         | 32,8                         | 174,4 | 117,3             | 81    | 3,2   | 751,8    | 1659,1    | 65    | 2,5   | 528,0       | 1165,4                   | 403,7       | 890,9                     | 320,4 | 707,2                    | 80           |
| 11         | 36,1                         | 142,9 | 96,1              | 98    | 3,8   | 686,8    | 1515,9    | 78    | 3,1   | 485,5       | 1071,4                   | 366,5       | 808,8                     | 292,2 | 644,9                    | 88           |
| 12         | 39,4                         | 118,9 | 80,0              | 116   | 4,6   | 630,9    | 1392,4    | 93    | 3,7   | 448,4       | 989,7                    | 334,8       | 738,9                     | 268,0 | 591,4                    | 96           |
| 13         | 42,6                         | 100,2 | 67,4              | 137   | 5,4   | 582,1    | 1284,4    | 109   | 4,3   | 415,8       | 917,7                    | 307,4       | 678,5                     | 246,9 | 545,0                    | 104          |
| 14         | 45,9                         | 85,4  | 57,5              | 158   | 6,2   | 539,0    | 1189,6    | 127   | 5,0   | 386,9       | 853,9                    | 283,5       | 625,7                     | 228,4 | 504,1                    | 112          |
| 15         | 49,2                         | 73,5  | 49,5              | 182   | 7,2   | 500,7    | 1105,0    | 146   | 5,7   | 361,0       | 796,7                    | 262,4       | 579,1                     | 212,0 | 467,9                    | 120          |
| 16         | 52,5                         | 63,7  | 42,9              | 207   | 8,1   | 466,3    | 1029,0    | 166   | 6,5   | 337,6       | 745,1                    | 243,5       | 537,5                     | 197,3 | 435,4                    | 128          |
| 17         | 55,8                         | 55,6  | 37,4              | 234   | 9,2   | 435,1    | 960,4     | 187   | 7,4   | 316,4       | 698,2                    | 226,6       | 500,1                     | 184,0 | 406,1                    | 136          |
| 18         | 59,0                         | 48,8  | 32,9              | 262   | 10,3  | 406,8    | 897,8     | 210   | 8,3   | 296,9       | 655,4                    | 211,3       | 466,3                     | 171,9 | 379,5                    | 144          |
| 19         | 62,3                         | 43,1  | 29,0              | 292   | 11,5  | 380,9    | 840,6     | 233   | 9,2   | 279,1       | 615,9                    | 197,3       | 435,5                     | 160,9 | 355,2                    | 152          |
| 20         | 65,6                         | 38,2  | 25,7              | 323   | 12,7  | 357,0    | 787,8     | 259   | 10,2  | 262,6       | 579,5                    | 184,5       | 407,2                     | 150,8 | 332,8                    | 160          |

 $1 \text{ inch} = 25,4 \text{ mm} \mid 1 \text{m} = 3.28 \text{ ft} \mid 1 \text{ lbs} = 0,453 \text{ kg}$ 

Without deflection limit

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- Loading figures are only valid for static loads.
- Loading figures are only valid for single spans with supports at both ends.
- All static systems, other than single spans, need an individual structural calculation. Please contact a structural engineer or Prolyte for assistance.
- Loading figures are calculated according to and in full compliance with European standards (Eurocode).
- The self-weight of the trusses is already taken into account.
- Loading figures are only valid for the cross sectional orientation of the truss as shown by the icon in the loading table.
- · The interaction between bending moment and shear force at the connection point is already taken into account.
- Truss spans can be assembled from different truss lengths.
- Read the manual before assembling, using and loading the truss.

| Technical Specifications – Verto H40V |               |  |  |  |  |  |
|---------------------------------------|---------------|--|--|--|--|--|
| Туре                                  | VER-H40V      |  |  |  |  |  |
| Alloy                                 | EN AW 6082 T6 |  |  |  |  |  |
| Main Chords                           | 48 x 3 mm     |  |  |  |  |  |
| Braces                                | 20 x 2 mm     |  |  |  |  |  |
| Coupling System                       | Verto, CrMo4  |  |  |  |  |  |

| Standard available ler | Standard available lengths and codes H40V series |               |  |  |  |  |  |  |  |
|------------------------|--|---------------|--|--|--|--|--|--|--|
| Metres                 | Feet   | Code          |  |  |  |  |  |  |  |
| 0,50                   | 1,64   | VER-H40V-L050 |  |  |  |  |  |  |  |
| 1,00                   | 3,28   | VER-H40V-L100 |  |  |  |  |  |  |  |
| 1,50                   | 4,57   | VER-H40V-L150 |  |  |  |  |  |  |  |
| 2,00                   | 6,56   | VER-H40V-L200 |  |  |  |  |  |  |  |
| 2,50                   | 8,20   | VER-H40V-L250 |  |  |  |  |  |  |  |
| 3,00                   | 9,84   | VER-H40V-L300 |  |  |  |  |  |  |  |
| 4,00                   | 13,12  | VER-H40R-L400 |  |  |  |  |  |  |  |





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

37.4

32,9

29,0

25,7

234

262

292

323

9.2

10,3

11,3

12,7

Without deflection limit

55.8

59,0

62.3

65,6

55.6

48,8

43.1

38,2

17

18

19

20

- Tüv certification only valid for loading table above.
- · Loading figures are only valid for static loads.
- · Loading figures are only valid for single spans with supports at both ends.

435,1

406,8

380,9

357,0

960.4

897,8

840,6

787,8

187

210

233

259

7.4

8,3

9,2

10,2

316.4

296,9

279,1

262,6

• All static systems, other than single spans, need an individual structural calculation. Please contact a structural engineer or Prolyte for assistance.

226,6

211,3

197,3

184,5

698.2

655,4

615,9

579,5

500,1

466,3

435,5

407,2

184,0

171,9

160,9

150,8

406,1

379,5

355,2

332,8

136

144

152

160

- Loading figures are calculated according to and in full compliance with European standards (Eurocode).
- The self-weight of the trusses is already taken into account.
- Loading figures are only valid for the cross sectional orientation of the truss as shown by the icon in the loading table.
- The interaction between bending moment and shear force at the connection point is already taken into account.
- Truss spans can be assembled from different truss lengths.
- Read the manual before assembling, using and loading the truss.

| Technical Specifications – Verto H40R |               |  |  |  |  |  |
|---------------------------------------|---------------|--|--|--|--|--|
| Туре                                  | VER-H40R      |  |  |  |  |  |
| Alloy                                 | EN AW 6082 T6 |  |  |  |  |  |
| Main Chords                           | 48 x 3 mm     |  |  |  |  |  |
| Braces                                | 20 x 2 mm     |  |  |  |  |  |
| Coupling System                       | Verto, CrMo4  |  |  |  |  |  |

| Standard available lengths and codes H40R codes |       |               |  |  |  |  |  |
|---|-------|---------------|--|--|--|--|--|
| Metres  | Feet  | Code          |  |  |  |  |  |
| 0,50  | 1,64  | VER-H40R-L050 |  |  |  |  |  |
| 1,00  | 3,28  | VER-H40R-L100 |  |  |  |  |  |
| 1,50  | 4,57  | VER-H40R-L150 |  |  |  |  |  |
| 2,00  | 6,56  | VER-H40R-L200 |  |  |  |  |  |
| 2,50  | 8,20  | VER-H40R-L250 |  |  |  |  |  |
| 3,00  | 9,84  | VER-H40R-L300 |  |  |  |  |  |
| 4,00  | 13,12 | VER-H40R-L400 |  |  |  |  |  |



Photo: DWR Distribution CC, South Africa. Project: JHB International Motor Show

H40 Series truss is constructed of main chords ( $48 \times 3 \text{ mm}$ ) and diagonals ( $20 \times 2 \text{ mm}$ ), and uses the CCS6 coupling system. Prolyte supplies a variety of H40 Series truss elements that provide maximum flexibility, including standard or custom-

made lengths, circles and arches and several types of corners. Prolyte can create custom-made pieces on request.

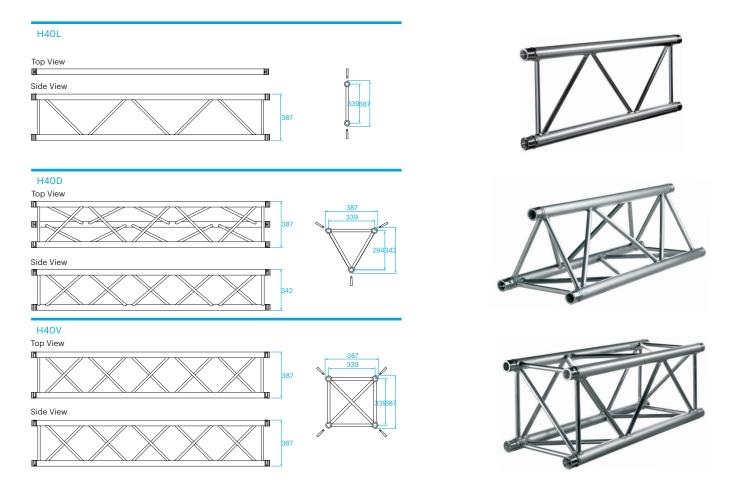
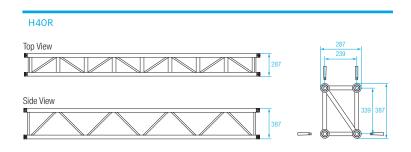






Photo: IPS, AV Network London Event , H40R truss





| Technical Specifications - H40L, H40D, H40V, H40R             |           |  |  |  |  |  |
|---|-----------|--|--|--|--|--|
| Types Ladder (L), Triangular (D), Square (V), Rectangular (R) |           |  |  |  |  |  |
| Alloy EN AW 6082 T6   |           |  |  |  |  |  |
| Main Chords   | 48 x 3 mm |  |  |  |  |  |
| Diagonal Members  | 20 x 2 mm |  |  |  |  |  |
| Coupling System   | CCS6      |  |  |  |  |  |

Structural data can be found at www.prolyte.com

| H40L, H40D, H40V, H40     | R- Standard available Ler  | ngths and Codes |  |  |
|---------------------------|----------------------------|-----------------|--|--|
| Metres                    | Feet                       | Code*           |  |  |
| 0.25/1.00 m in 5 mm steps | 0.82'/3.28', in 0.2' steps |                 |  |  |
| 0,25                      | 0.82                       | H40•-L025       |  |  |
| 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                      | 4.92                       | H40•-L150       |  |  |
| 2,00                      | 6.56                       | H40•-L200       |  |  |
| 2,50                      | 8.20                       | H40•-L250       |  |  |
| 3,00                      | 9.84                       | H40•-L300       |  |  |
| 4,00                      | 13.12                      | H40•-L400       |  |  |

\*on • indicate L for Ladder, D for triangular or

V for square, R for rectangular truss

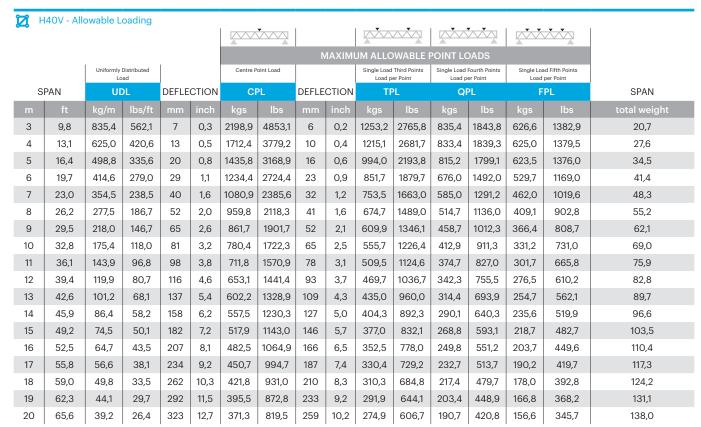
Example: H40V-L200

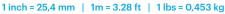
| \$ ⊢ | 40D - All | owable L    | oading |       |       |          |                   |       |        |         |                          |         |                           |       |                             |              |
|------|-----------|-------------|--------|-------|-------|----------|-------------------|-------|--------|---------|--------------------------|---------|---------------------------|-------|-----------------------------|--------------|
| •    |           |             |        |       |       |          | <b>*</b>          |       |        |         |                          |         |                           |       |                             |              |
|      |           |             |        |       |       |          |                   | M     | IAXIML | JM ALLO | WABLE P                  | OINT LC | ADS                       |       |                             |              |
|      |           | Uniformly I |        |       |       | Centre P | Centre Point Load |       |        |         | Third Points<br>er Point |         | Fourth Points<br>er Point |       | d Fifth Points<br>per Point |              |
| SI   | PAN       | UE          |        | DEFLE | CTION | CF       | PL                | DEFLE | CTION  | TF      |                          | QI      |                           |       | PL                          | SPAN         |
| m    | ft        | kg/m        | lbs/ft | mm    | inch  | kgs      | lbs               | mm    | inch   | kgs     | lbs                      | kgs     | lbs                       | kgs   | lbs                         | total weight |
| 3    | 9,8       | 724,4       | 487,4  | 9     | 0,4   | 1048,3   | 2313,5            | 8     | 0,3    | 715,6   | 1579,4                   | 581,4   | 1283,2                    | 451,7 | 996,8                       | 15,0         |
| 4    | 13,1      | 487,6       | 328,1  | 17    | 0,7   | 824,1    | 1818,9            | 13    | 0,5    | 573,8   | 1266,3                   | 446,7   | 985,8                     | 352,4 | 777,8                       | 20,0         |
| 5    | 16,4      | 310,4       | 208,9  | 26    | 1,0   | 677,3    | 1494,8            | 21    | 0,8    | 477,8   | 1054,6                   | 361,7   | 798,2                     | 288,3 | 636,3                       | 25,0         |
| 6    | 19,7      | 214,2       | 144,1  | 38    | 1,5   | 573,4    | 1265,4            | 30    | 1,2    | 408,5   | 901,5                    | 303,0   | 668,8                     | 243,3 | 536,9                       | 30,0         |
| 7    | 23,0      | 156,2       | 105,1  | 51    | 2,0   | 495,7    | 1094,1            | 41    | 1,6    | 355,9   | 785,4                    | 260,0   | 573,8                     | 209,9 | 463,2                       | 35,0         |
| 8    | 26,2      | 118,5       | 79,8   | 64    | 2,5   | 435,3    | 960,7             | 53    | 2,1    | 314,5   | 694,1                    | 226,9   | 500,9                     | 184,0 | 406,0                       | 40,0         |
| 9    | 29,5      | 92,7        | 62,4   | 85    | 3,3   | 386,8    | 853,8             | 68    | 2,7    | 281,0   | 620,2                    | 200,7   | 443,0                     | 163,3 | 360,4                       | 45,0         |
| 10   | 32,8      | 74,2        | 50,0   | 104   | 4,1   | 347,0    | 765,8             | 84    | 3,3    | 253,3   | 558,9                    | 179,3   | 395,8                     | 146,3 | 323,0                       | 50,0         |
| 11   | 36,1      | 60,6        | 40,8   | 126   | 5,0   | 313,5    | 691,9             | 101   | 4,0    | 229,8   | 507,3                    | 161,5   | 356,5                     | 132,1 | 291,6                       | 55,0         |
| 12   | 39,4      | 50,2        | 33,8   | 150   | 5,9   | 284,9    | 628,9             | 120   | 4,7    | 209,8   | 463,0                    | 146,4   | 323,1                     | 120,1 | 265,0                       | 60,0         |
| 13   | 42,6      | 42,1        | 28,3   | 176   | 6,9   | 260,2    | 574,3             | 141   | 5,6    | 192,3   | 424,5                    | 133,4   | 294,3                     | 109,6 | 241,9                       | 65,0         |
| 14   | 45,9      | 35,7        | 24,0   | 205   | 8,1   | 238,5    | 526,4             | 164   | 6,5    | 177,0   | 390,6                    | 122,0   | 269,2                     | 100,5 | 221,7                       | 70,0         |
| 15   | 49,2      | 30,5        | 20,5   | 235   | 9,3   | 219,3    | 484,0             | 188   | 7,4    | 163,3   | 360,5                    | 111,9   | 247,1                     | 92,4  | 203,9                       | 75,0         |
| 16   | 52,5      | 26,3        | 17,7   | 267   | 10,5  | 202,1    | 446,0             | 214   | 8,4    | 151,1   | 333,5                    | 103,0   | 227,3                     | 85,1  | 187,9                       | 80,0         |
| 17   | 55,8      | 22,7        | 15,3   | 302   | 11,9  | 186,6    | 411,7             | 241   | 9,5    | 140,0   | 309,0                    | 94,9    | 209,5                     | 78,6  | 173,5                       | 85,0         |
| 18   | 59,0      | 19,8        | 13,3   | 338   | 13,3  | 172,4    | 380,6             | 271   | 10,7   | 129,9   | 286,8                    | 87,6    | 193,4                     | 72,7  | 160,5                       | 90,0         |
| 19   | 62,3      | 17,3        | 11,6   | 377   | 14,8  | 159,5    | 352,1             | 302   | 11,9   | 120,7   | 266,3                    | 81,0    | 178,7                     | 67,3  | 148,5                       | 95,0         |
| 20   | 65,6      | 15,2        | 10,2   | 417   | 16,4  | 147,6    | 325,8             | 334   | 13,1   | 112,1   | 247,5                    | 74,9    | 165,2                     | 62,3  | 137,5                       | 100,0        |

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

- Tüv certification only valid for loading table above.
- Loading figures are only valid for static loads.
- Loading figures are only valid for single spans with supports at both ends.
- All static systems, other than single spans, need an individual structural calculation. Please contact a structural engineer or Prolyte for assistance.
- Loading figures are calculated according to and in full compliance with European standards (Eurocode).
- The self-weight of the trusses is already taken into account.
- Loading figures are only valid for the cross sectional orientation of the truss as shown by the icon in the loading table.
- The interaction between bending moment and shear force at the connection point is already taken into account.
- Truss spans can be assembled from different truss lengths.
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| <b>∑</b> ⊢ | H40R - All | owable L    | oading. |       |       |          |           |       |       |        |                          |         |                           |       |                  |              |
|------------|------------|-------------|---------|-------|-------|----------|-----------|-------|-------|--------|--------------------------|---------|---------------------------|-------|------------------|--------------|
|            |            |             |         |       |       |          |           |       |       |        |                          |         |                           |       |                  |              |
|            |            |             |         |       |       |          |           |       | MAXIM | UM ALL | OWABLE                   | POINT L | OADS                      |       |                  |              |
|            |            | Uniformly I |         |       |       | Centre P | oint Load |       |       |        | Third Points<br>er Point |         | Fourth Points<br>er Point |       | oad Fifth Points |              |
| SI         | PAN        | U           |         | DEFLE | CTION | C        | PL        | DEFLE | CTION | TI     |                          | Q       |                           |       | FPL              | SPAN         |
| m          | ft         | kg/m        | lbs/ft  | mm    | inch  | kgs      | lbs       | mm    | inch  | kgs    | lbs                      | kgs     | lbs                       | kgs   | lbs              | total weight |
| 3          | 9,8        | 835,3       | 562,0   | 7     | 0,3   | 2198,8   | 4852,8    | 6     | 0,2   | 1252,9 | 2765,2                   | 835,3   | 1843,4                    | 626,5 | 1382,6           | 20.7         |
| 4          | 13,1       | 624,9       | 420,4   | 13    | 0,5   | 1712,1   | 3778,7    | 10    | 0,4   | 1214,9 | 2681,3                   | 833,1   | 1838,7                    | 624,9 | 1379,1           | 27.6         |
| 5          | 16,4       | 498,6       | 335,5   | 20    | 0,8   | 1435,5   | 3168,2    | 16    | 0,6   | 993,8  | 2193,4                   | 815,0   | 1798,7                    | 623,3 | 1375,5           | 34.5         |
| 6          | 19,7       | 414,4       | 278,9   | 29    | 1,1   | 1234,1   | 2723,6    | 23    | 0,9   | 851,5  | 1879,2                   | 675,8   | 1491,5                    | 529,5 | 1168,7           | 41.4         |
| 7          | 23,0       | 354,3       | 238,4   | 40    | 1,6   | 1080,5   | 2384,6    | 32    | 1,2   | 753,2  | 1662,4                   | 584,8   | 1290,6                    | 461,8 | 1019,1           | 48.3         |
| 8          | 26,2       | 277,3       | 186,6   | 52    | 2,0   | 959,3    | 2117,1    | 41    | 1,6   | 674,4  | 1488,3                   | 514,4   | 1135,3                    | 408,8 | 902,3            | 55.2         |
| 9          | 29,5       | 217,8       | 146,5   | 65    | 2,6   | 861,0    | 1900,3    | 52    | 2,1   | 609,5  | 1345,3                   | 458,3   | 1011,6                    | 366,1 | 808,1            | 62.1         |
| 10         | 32,8       | 175,2       | 117,9   | 81    | 3,2   | 779,7    | 1720,7    | 65    | 2,5   | 555,3  | 1225,4                   | 412,5   | 910,4                     | 330,9 | 730,4            | 69.0         |
| 11         | 36,1       | 143,7       | 96,7    | 98    | 3,8   | 711,0    | 1569,2    | 78    | 3,1   | 509,0  | 1123,4                   | 374,3   | 826,0                     | 301,3 | 665,1            | 75.9         |
| 12         | 39,4       | 119,7       | 80,5    | 116   | 4,6   | 652,2    | 1439,4    | 93    | 3,7   | 469,2  | 1035,4                   | 341,8   | 754,4                     | 276,1 | 609,3            | 82.8         |
| 13         | 42,6       | 101,1       | 68,0    | 137   | 5,4   | 601,2    | 1326,8    | 109   | 4,3   | 434,3  | 958,6                    | 313,9   | 692,7                     | 254,3 | 561,1            | 89.7         |
| 14         | 45,9       | 86,3        | 58,0    | 158   | 6,2   | 556,4    | 1228,0    | 127   | 5,0   | 403,6  | 890,8                    | 289,6   | 639,1                     | 235,1 | 519,0            | 96.6         |
| 15         | 49,2       | 74,3        | 50,0    | 182   | 7,2   | 516,7    | 1140,4    | 146   | 5,7   | 376,3  | 830,4                    | 268,1   | 591,8                     | 218,2 | 481,7            | 103.5        |
| 16         | 52,5       | 64,5        | 43,4    | 207   | 8,1   | 481,3    | 1062,2    | 166   | 6,5   | 351,7  | 776,2                    | 249,1   | 549,7                     | 203,2 | 448,4            | 110.4        |
| 17         | 55,8       | 56,4        | 38,0    | 234   | 9,2   | 449,3    | 991,7     | 187   | 7,4   | 329,5  | 727,3                    | 232,0   | 512,1                     | 189,6 | 418,5            | 117.3        |
| 18         | 59,0       | 49,7        | 33,4    | 262   | 10,3  | 420,4    | 927,8     | 210   | 8,3   | 309,3  | 682,7                    | 216,6   | 478,1                     | 177,4 | 391,4            | 124,2        |
| 19         | 62,3       | 43,9        | 29,5    | 292   | 11,5  | 394,0    | 869,5     | 233   | 9,2   | 290,9  | 641,9                    | 202,6   | 447,2                     | 166,2 | 366,8            | 131,1        |
| 20         | 65,6       | 39,0        | 26,2    | 323   | 12,7  | 369,7    | 816,0     | 259   | 10,2  | 273,9  | 604,4                    | 189,8   | 418,9                     | 156,0 | 344,2            | 138          |

1 inch = 25,4 mm  $\mid$  1m = 3.28 ft  $\mid$  1 lbs = 0,453 kg



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- Loading figures are only valid for single spans with supports at both ends.
- All static systems, other than single spans, need an individual structural calculation. Please contact a structural engineer or Prolyte for assistance.
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| H40R - Standard avai      | ilable Lengths and Co      | des       |
|---------------------------|----------------------------|-----------|
| Metres                    | Feet                       | Code*     |
| 0.25/1.00 m in 5 mm steps | 0.82'/3.28', in 0.2' steps |           |
| 0,25                      | 0.83                       | H40R-L025 |
| 0,50                      | 1.90                       | H40R-L050 |
| 0,75                      | 2.46                       | H40R-L075 |
| 1,00                      | 3.28                       | H40R-L100 |
| 1,50                      | 4.92                       | H40R-L150 |
| 2,00                      | 6.56                       | H40R-L200 |
| 2,50                      | 8.20                       | H40R-L250 |
| 3,00                      | 9.84                       | H40R-L300 |
| 4,00                      | 13.12                      | H40R-L400 |

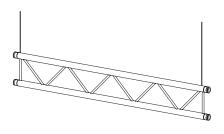






| S | PAN  | UDL    |        | DEFLECTION |      |        | PL PL  | DEFLECTION |      |
|---|------|--------|--------|------------|------|--------|--------|------------|------|
| m |      | kg/m   | lbs/ft | mm         | inch | kgs    | lbs    | mm         | inch |
| 1 | 3,3  | 1259,8 | 847,7  | 1          | 0,0  | 1259,8 | 2780,4 | 0          | 0,0  |
| 2 | 6,6  | 629,0  | 423,2  | 1          | 0,0  | 629,0  | 1388,2 | 1          | 0,0  |
| 3 | 9,8  | 253,0  | 170,2  | 2          | 0,1  | 380,0  | 838,7  | 1          | 0,1  |
| 4 | 13,1 | 105,0  | 70,7   | 2          | 0,1  | 210,0  | 463,5  | 2          | 0,1  |
| 5 | 16,4 | 52,0   | 35,0   | 3          | 0,1  | 130,0  | 286,9  | 2          | 0,1  |
| 6 | 19,7 | 24,0   | 16,1   | 3          | 0,1  | 72,0   | 158,9  | 2          | 0,1  |

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



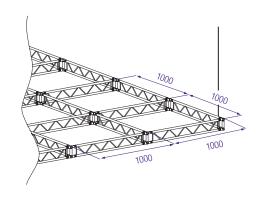
Spans must be supported at each end.

Loads must be suspended from bottom chord only.

### H40L - Allowable Loading (Top chord sideways supported each metre.)

| Uniformly Distributed<br>Load |      |       |        |       |       |       |        |            |      |
|-------------------------------|------|-------|--------|-------|-------|-------|--------|------------|------|
| S                             | PAN  | UE    | DL     | DEFLE | CTION | CI    | PL     | DEFLECTION |      |
| m                             | ft   | kg/m  | lbs/ft | mm    | inch  | kgs   | lbs    | mm         | inch |
| 4                             | 13,1 | 312,9 | 210,6  | 13    | 0,5   | 806,8 | 1780,5 | 10         | 0,4  |
| 5                             | 16,4 | 249,8 | 168,1  | 20    | 0,8   | 682,7 | 1506,7 | 16         | 0,6  |
| 6                             | 19,7 | 207,7 | 139,8  | 29    | 1,1   | 590,9 | 1304,1 | 23         | 0,9  |
| 7                             | 23,0 | 173,4 | 116,7  | 40    | 1,6   | 520,2 | 1148,0 | 32         | 1,2  |
| 8                             | 26,2 | 133,7 | 90,0   | 52    | 2,0   | 463,9 | 1023,7 | 41         | 1,6  |
| 9                             | 29,5 | 106,0 | 71,3   | 65    | 2,6   | 417,9 | 922,4  | 52         | 2,1  |
| 10                            | 32,8 | 85,8  | 57,7   | 81    | 3,2   | 379,7 | 838,0  | 65         | 2,5  |
| 11                            | 36,1 | 70,8  | 47,6   | 98    | 3,8   | 347,3 | 766,5  | 78         | 3,1  |
| 12                            | 39,4 | 59,2  | 39,9   | 116   | 4,6   | 319,5 | 705,1  | 93         | 3,7  |

 $1 \text{ inch} = 25,4 \text{ mm} \mid 1 \text{m} = 3.28 \text{ ft} \mid 1 \text{ lbs} = 0,453 \text{ kg}$ 



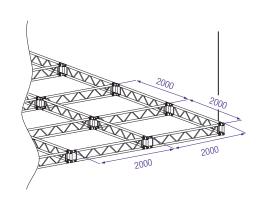
Spans must be supported at each end.

Loads must be suspended from bottom chord only.

### H40L - Allowable Loading (Top chords sideways supported every 2 metres.)

| Uniformly Distributed<br>Load |      |       |        |       |       |       |       |            |      |
|-------------------------------|------|-------|--------|-------|-------|-------|-------|------------|------|
| S                             | PAN  | UE    | DL     | DEFLE | CTION | CF    | PL PL | DEFLECTION |      |
| m                             | ft   | kg/m  | lbs/ft | mm    | inch  | kgs   | lbs   | mm         | inch |
| 4                             | 13,1 | 156,2 | 105,1  | 4     | 0,1   | 312,5 | 689,6 | 3          | 0,1  |
| 5                             | 16,4 | 99,0  | 66,6   | 6     | 0,2   | 247,5 | 546,3 | 5          | 0,2  |
| 6                             | 19,7 | 67,9  | 45,7   | 8     | 0,3   | 203,8 | 449,8 | 7          | 0,3  |
| 7                             | 23,0 | 49,2  | 33,1   | 11    | 0,4   | 172,2 | 380,0 | 9          | 0,3  |
| 8                             | 26,2 | 37,0  | 24,9   | 14    | 0,6   | 148,1 | 326,9 | 12         | 0,5  |
| 9                             | 29,5 | 28,7  | 19,3   | 18    | 0,7   | 129,1 | 285,0 | 15         | 0,6  |
| 10                            | 32,8 | 22,7  | 15,3   | 23    | 0,9   | 113,6 | 250,8 | 18         | 0,7  |
| 11                            | 36,1 | 18,3  | 12,3   | 27    | 1,1   | 100,7 | 222,3 | 22         | 0,9  |
| 12                            | 39,4 | 15,0  | 10,1   | 33    | 1,3   | 89,8  | 198,1 | 26         | 1,0  |

1 inch = 25,4 mm  $\mid$  1m = 3.28 ft  $\mid$  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 product line consists of the S, B, C, D and M Series, ranging from the S36 to the M145 truss, all available in several profiles. They are designed as robust truss systems, with thick-walled chords, heavy-duty diagonal members and an exceptionally strong coupler system.

The main characteristics of the Heavy-Duty truss are relative compactness and ultimate strength, while a user-friendly design, durability and unrivalled loading capacities make Prolyte Heavy-Duty truss 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 frequent use, for example when 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. All heavy-duty series are mainly used in the rental, staging, event and exhibition markets.

# **Coupling system**

Prolyte S, B and C Series Heavy-Duty trusses use the CCS7 conical coupling system. The CCS7 allows fast, efficient and reliable coupling of trusses and corners. The D and M Series uses the pin-fork coupling system.



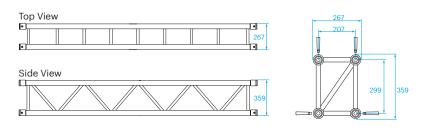


S36 Series truss is constructed of main chords (50 x 4 mm) and diagonal members (25 x 3 mm), and uses the CCS7 coupling system. Prolyte supplies a variety of S36 truss elements that provide maximum flexibility, including standard or custom-made lengths, circles and arches and several types of corners.

Prolyte can create custom-made pieces on request. The S36V has 4-sided diagonal webbing and can therefore handle vertical

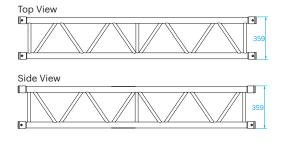
Photo: Prolyte. Project: Amusement park, Germany. as well as horizontal loads. The S36R can handle only vertical loading. Thanks to the clever spigot pin orientation in the couplers, assembly of the truss is easy.

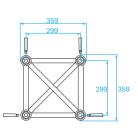
### S36R

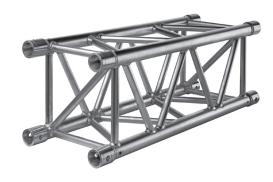




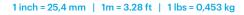
### S36V







| 🐧 S36R - Allowable Loading |                            |        |        |            |      |                               |        |            |  |        |   |        |  |       |        |              |
|----------------------------|----------------------------|--------|--------|------------|------|-------------------------------|--------|------------|--|--------|---|--------|--|-------|--------|--------------|
|                            |                            |        |        |            |      | •                             |        |            |  |        |   |        |  |       |        |              |
|                            |                            |        |        |            |      | MAXIMUM ALLOWABLE POINT LOADS |        |            |  |        |   |        |  |       |        |              |
|                            | Uniformly Distributed Load |        |        |            |      | Centre Point Load             |        |            | Single Load Third Points<br>Load per Point |        | Single Load Fourth<br>Points Load per Point |        | Single Load Fifth Points<br>Load per Point |       |        |              |
| SP                         | AN                         | UDL    |        | DEFLECTION |      | CPL                           |        | DEFLECTION |  | TPL    |   | QPL    |  | FPL   |        | SPAN         |
| m                          | ft                         | kg/m   | lbs/ft | mm         | inch | kgs                           | lbs    | mm         | inch                                       | kgs    | lbs   | kgs    | lbs  | kgs   | lbs    | total weight |
| 3                          | 9,8                        | 1533,6 | 1031,9 | 8          | 0,3  | 2270,5                        | 5011,1 | 7          | 0,3  | 1471,3 | 3247,1                                      | 1167,6 | 2576,9                                     | 979,3 | 2161,4 | 31,5         |
| 4                          | 13,1                       | 1147,8 | 772,3  | 15         | 0,6  | 1874,3                        | 4136,6 | 12         | 0,5  | 1217,2 | 2686,4                                      | 996,5  | 2199,2                                     | 822,7 | 1815,8 | 42,0         |
| 5                          | 16,4                       | 863,7  | 581,1  | 23         | 0,9  | 1593,3                        | 3516,5 | 18         | 0,7  | 1055,9 | 2330,3                                      | 881,6  | 1945,7                                     | 693,7 | 1531,0 | 52,5         |
| 6                          | 19,7                       | 596,9  | 401,6  | 33         | 1,3  | 1383,3                        | 3052,9 | 26         | 1,0  | 930,9  | 2054,6                                      | 780,4  | 1722,4                                     | 598,6 | 1321,0 | 63,0         |
| 7                          | 23,0                       | 436,0  | 293,4  | 45         | 1,8  | 1219,9                        | 2692,3 | 36         | 1,4  | 831,2  | 1834,4                                      | 678,0  | 1496,3                                     | 525,4 | 1159,6 | 73,5         |
| 8                          | 26,2                       | 331,6  | 223,1  | 58         | 2,3  | 1088,9                        | 2403,2 | 47         | 1,8  | 749,5  | 1654,1                                      | 598,0  | 1319,8                                     | 467,3 | 1031,2 | 84,0         |
| 9                          | 29,5                       | 260,0  | 175,0  | 74         | 2,9  | 981,3                         | 2165,7 | 59         | 2,3  | 681,2  | 1503,5                                      | 533,7  | 1177,9                                     | 419,8 | 926,5  | 94,5         |
| 10                         | 32,8                       | 208,8  | 140,5  | 91         | 3,6  | 891,1                         | 1966,7 | 73         | 2,9  | 623,2  | 1375,5                                      | 480,8  | 1061,1                                     | 380,3 | 839,3  | 105,0        |
| 11                         | 36,1                       | 170,9  | 115,0  | 111        | 4,4  | 814,3                         | 1797,1 | 88         | 3,5  | 573,3  | 1265,2                                      | 436,4  | 963,1                                      | 346,8 | 765,4  | 115,5        |
| 12                         | 39,4                       | 142,1  | 95,6   | 132        | 5,2  | 747,9                         | 1650,6 | 105        | 4,1  | 529,6  | 1168,9                                      | 398,5  | 879,4                                      | 318,0 | 701,8  | 126,0        |
| 13                         | 42,6                       | 119,7  | 80,5   | 154        | 6,1  | 689,8                         | 1522,5 | 124        | 4,9  | 491,2  | 1084,0                                      | 365,7  | 807,0                                      | 292,9 | 646,4  | 136,5        |
| 14                         | 45,9                       | 101,9  | 68,6   | 179        | 7,0  | 638,5                         | 1409,2 | 143        | 5,6  | 456,9  | 1008,4                                      | 336,9  | 743,6                                      | 270,8 | 597,7  | 147,0        |
| 15                         | 49,2                       | 87,6   | 58,9   | 206        | 8,1  | 592,7                         | 1308,1 | 164        | 6,5  | 426,2  | 940,6                                       | 311,5  | 687,6                                      | 251,1 | 554,3  | 157,5        |
| 16                         | 52,5                       | 75,8   | 51,0   | 234        | 9,2  | 551,5                         | 1217,2 | 187        | 7,4  | 398,4  | 879,2                                       | 288,9  | 637,5                                      | 233,5 | 515,3  | 168,0        |
| 17                         | 55,8                       | 66,1   | 44,5   | 264        | 10,4 | 514,2                         | 1134,8 | 211        | 8,3  | 373,0  | 823,2                                       | 268,4  | 592,5                                      | 217,6 | 480,1  | 178,5        |
| 18                         | 59,0                       | 57,9   | 39,0   | 296        | 11,7 | 480,1                         | 1059,6 | 237        | 9,3  | 349,8  | 772,0                                       | 249,9  | 551,6                                      | 203,0 | 448,1  | 189,0        |
| 19                         | 62,3                       | 51,0   | 34,3   | 330        | 13,0 | 448,9                         | 990,7  | 264        | 10,4                                       | 328,4  | 724,7                                       | 233,0  | 514,3                                      | 189,8 | 418,8  | 199,5        |
| 20                         | 65,6                       | 45,1   | 30,4   | 365        | 14,4 | 420,0                         | 927,0  | 292        | 11,5                                       | 308,6  | 681,0                                       | 217,5  | 480,1                                      | 177,5 | 391,8  | 210,0        |





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- Loading figures are only valid for static loads.
- Loading figures are only valid for single spans with supports at both ends.
- All static systems, other than single spans, need an individual structural calculation. Please contact a structural engineer or Prolyte for assistance.
- Loading figures are calculated according to and in full compliance with European standards (Eurocode).
- The self-weight of the trusses is already taken into account.
- Loading figures are only valid for the cross sectional orientation of the truss as shown by the icon in the loading table.
- The interaction between bending moment and shear force at the connection point is already taken into account.
- Truss spans can be assembled from different truss lengths.
- Read the manual before assembling, using and loading the truss.

| Technical Specifications - S36 Series |                             |  |  |  |  |  |  |  |  |  |
|---------------------------------------|-----------------------------|--|--|--|--|--|--|--|--|--|
| Types                                 | Rectangular (R), Square (V) |  |  |  |  |  |  |  |  |  |
| Alloy                                 | EN AW 6082 T6               |  |  |  |  |  |  |  |  |  |
| Main Chords                           | 50 x 4 mm                   |  |  |  |  |  |  |  |  |  |
| Diagonal Members                      | 25 x 3 mm                   |  |  |  |  |  |  |  |  |  |
| Coupling System                       | CCS7                        |  |  |  |  |  |  |  |  |  |

Structural data can be found at www.prolyte.com

| S36 Series - Standard available Lengths and Codes |       |           |  |  |  |  |  |  |  |
|---|-------|-----------|--|--|--|--|--|--|--|
| Metres  | Feet  | Code*     |  |  |  |  |  |  |  |
| 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 |  |  |  |  |  |  |  |
| 4,00  | 13.12 | S36•-L400 |  |  |  |  |  |  |  |

\*on • indicate R for Rectangular, V for Square truss.

Example: S36V-L200





### S36V - Allowable Loading

| - Coor Americanic Educating |      |        |        |            | •                             |                   |        |            |      |  |        |   | *****  |  |        |              |
|-----------------------------|------|--------|--------|------------|-------------------------------|-------------------|--------|------------|------|--|--------|---|--------|--|--------|--------------|
|                             |      |        |        |            | MAXIMUM ALLOWABLE POINT LOADS |                   |        |            |      |  |        |   |        |  |        |              |
| Uniformly Distr<br>Load     |      |        |        |            |                               | Centre Point Load |        |            |      | Single Load Third Points<br>Load per Point |        | Single Load Fourth Points<br>Load per Point |        | Single Load Fifth Points<br>Load per Point |        |              |
| SPAN                        |      | UDL    |        | DEFLECTION |                               | CPL               |        | DEFLECTION |      | TPL  |        | QPL   |        | FPL  |        | SPAN         |
| m                           | ft   | kg/m   | lbs/ft | mm         | inch                          | kgs               | lbs    | mm         | inch | kgs  | lbs    | kgs   | lbs    | kgs  | lbs    | total weight |
| 3                           | 9,8  | 1532,2 | 1031,0 | 8          | 0,3                           | 2269,7            | 5009,3 | 7          | 0,3  | 1470,7                                     | 3245,8 | 1167,0                                      | 2575,6 | 978,8                                      | 2160,1 | 36           |
| 4                           | 13,1 | 1146,5 | 771,4  | 15         | 0,6                           | 1873,0            | 4133,7 | 12         | 0,5  | 1216,4                                     | 2684,5 | 995,6                                       | 2197,4 | 822,1                                      | 1814,3 | 48           |
| 5                           | 16,4 | 862,3  | 580,2  | 23         | 0,9                           | 1591,5            | 3512,5 | 18         | 0,7  | 1054,7                                     | 2327,7 | 880,4                                       | 1943,1 | 692,8                                      | 1528,9 | 60           |
| 6                           | 19,7 | 595,5  | 400,7  | 33         | 1,3                           | 1380,8            | 3047,5 | 26         | 1,0  | 929,4                                      | 2051,2 | 778,9                                       | 1719,0 | 597,4                                      | 1318,5 | 72           |
| 7                           | 23,0 | 434,7  | 292,5  | 45         | 1,8                           | 1216,9            | 2685,6 | 36         | 1,4  | 829,2                                      | 1830,1 | 676,1                                       | 1492,1 | 524,0                                      | 1156,5 | 84           |
| 8                           | 26,2 | 330,3  | 222,2  | 58         | 2,3                           | 1085,3            | 2395,2 | 47         | 1,8  | 747,2                                      | 1649,0 | 595,8                                       | 1314,9 | 465,6                                      | 1027,5 | 96           |
| 9                           | 29,5 | 258,7  | 174,1  | 74         | 2,9                           | 977,0             | 2156,3 | 59         | 2,3  | 678,5                                      | 1497,5 | 531,2                                       | 1172,3 | 417,9                                      | 922,3  | 108          |
| 10                          | 32,8 | 207,5  | 139,6  | 91         | 3,6                           | 886,2             | 1955,8 | 73         | 2,9  | 620,1                                      | 1368,6 | 477,9                                       | 1054,8 | 378,1                                      | 834,5  | 120          |
| 11                          | 36,1 | 169,6  | 114,1  | 111        | 4,4                           | 808,7             | 1784,8 | 88         | 3,5  | 569,7                                      | 1257,3 | 433,2                                       | 956,0  | 344,4                                      | 760,0  | 132          |
| 12                          | 39,4 | 140,8  | 94,7   | 132        | 5,2                           | 741,7             | 1636,9 | 105        | 4,1  | 525,7                                      | 1160,1 | 394,9                                       | 871,6  | 315,3                                      | 695,8  | 144          |
| 13                          | 42,6 | 118,4  | 79,6   | 154        | 6,1                           | 682,9             | 1507,2 | 124        | 4,9  | 486,7                                      | 1074,2 | 361,8                                       | 798,5  | 289,9                                      | 639,8  | 156          |
| 14                          | 45,9 | 100,6  | 67,7   | 179        | 7,0                           | 630,9             | 1392,5 | 143        | 5,6  | 452,0                                      | 997,7  | 332,7                                       | 734,3  | 267,5                                      | 590,4  | 168          |
| 15                          | 49,2 | 86,2   | 58,0   | 206        | 8,1                           | 584,5             | 1289,9 | 164        | 6,5  | 420,8                                      | 928,8  | 307,0                                       | 677,5  | 247,6                                      | 546,4  | 180          |
| 16                          | 52,5 | 74,5   | 50,1   | 234        | 9,2                           | 542,6             | 1197,5 | 187        | 7,4  | 392,6                                      | 866,4  | 284,0                                       | 626,7  | 229,7                                      | 506,9  | 192          |
| 17                          | 55,8 | 64,7   | 43,6   | 264        | 10,4                          | 504,5             | 1113,5 | 211        | 8,3  | 366,7                                      | 809,4  | 263,2                                       | 580,9  | 213,5                                      | 471,1  | 204          |
| 18                          | 59,0 | 56,6   | 38,1   | 296        | 11,7                          | 469,8             | 1036,8 | 237        | 9,3  | 343,0                                      | 757,1  | 244,3                                       | 539,3  | 198,7                                      | 438,4  | 216          |
| 19                          | 62,3 | 49,7   | 33,4   | 330        | 13,0                          | 437,8             | 966,3  | 264        | 10,4 | 321,1                                      | 708,7  | 227,1                                       | 501,2  | 185,1                                      | 408,5  | 228          |
| 20                          | 65,6 | 43,8   | 29,5   | 365        | 14,4                          | 408,3             | 901,1  | 292        | 11,5 | 300,8                                      | 663,9  | 211,2                                       | 466,2  | 172,6                                      | 380,9  | 240          |

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



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- Loading figures are only valid for single spans with supports at both ends.
- · All static systems, other than single spans, need an individual structural calculation. Please contact a structural engineer or Prolyte for assistance.
- Loading figures are calculated according to and in full compliance with European standards (Eurocode).
- The self-weight of the trusses is already taken into account.
- · Loading figures are only valid for the cross sectional orientation of the truss as shown by the icon in the loading table.
- The interaction between bending moment and shear force at the connection point is already taken into account.
- Truss spans can be assembled from different truss lengths.
- Read the manual before assembling, using and loading the truss.

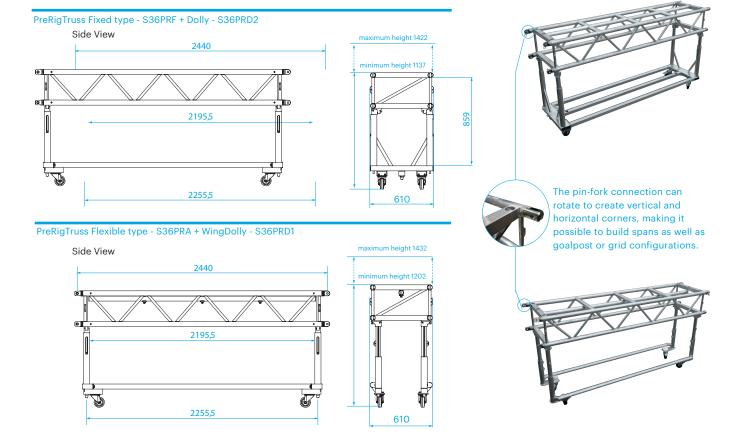


Photo: Flashlight Rental by, The Netherlands

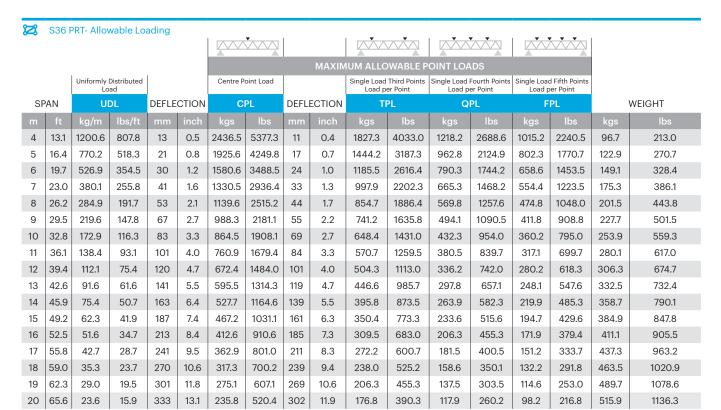
The S36PRF and S36PRA have measurements of 360 mm height and 610 mm width and are available in different lengths. The truss has fixed cross and linear braces on the topside; the diameter is 50x4 mm for the main chords and 25x3 mm for the diagonal members and cross members. The truss can be stacked with or without the dolly. Both the truss and the dolly types are compatible and can be interchanged.

Flexible cross members in the topside of the S36PRA make it

possible to mount the fixtures or bars at any required place. These braces are equipped with M12 sliding slots to facilitate placing. The stackable dollies guarantee easy handling; one person can do stacking, tipping and connection of the legs. The dolly has foldable bumpers to improve side protection.







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

WHEN DOLLIES ARE NOT MOUNTED ON THE TRUSS THE LOADING COULD BE INCREASED WITH 12 KG PER METER

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- · Loading figures are calculated according to and in full compliance with European standards (Eurocode).
- The self-weight of the trusses is already taken into account.
- · Loading figures are only valid for the cross sectional orientation of the truss as shown by the icon in the loading table.
- The interaction between bending moment and shear force at the connection point is already taken into account.
- Truss spans can be assembled from different truss lengths.
- Read the manual before assembling, using and loading the truss.

| Technical Specifications - PreRigTruss |                    |  |  |
|--|--------------------|--|--|
| Types                                  | Pre rig            |  |  |
| Alloy                                  | EN AW 6082 T6      |  |  |
| Main Chords                            | 50 x 4 mm          |  |  |
| Diagonal Members                       | 25 x 3 mm          |  |  |
| Coupling System                        | Rotatable Pin/fork |  |  |

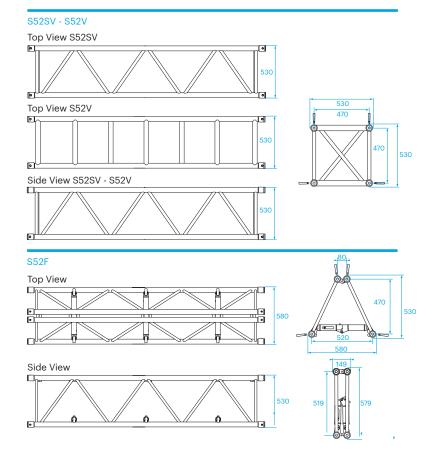
Structural data can be found at www.prolyte.com

| CODE         | DESCRIPTION                                   | WEIGHT  |
|--------------|---|---------|
| S36PRF-L122  | PreRigTruss, fixed, length 4ft                | 28 kg   |
| S36PRF-L244  | PreRigTruss, fixed, length 8ft                | 36 kg   |
| S36PRF-L305  | PreRigTruss, fixed, length 10ft               | 43 kg   |
| S36PRA-L122  | PreRigTruss, flexable, length 4ft             | 23 kg   |
| S36PRA-L244  | PreRigTruss, flexable, length 8ft             | 35 kg   |
| S36PRA-L305  | PreRigTruss, flexable, length 10ft            | 42 kg   |
| S36PRD1-L122 | Dolly for S36PR truss, wing type, length 4ft  | 12.5 kg |
| S36PRD1-L244 | Dolly for S36PR truss, wing type, length 8ft  | 13.5 kg |
| S36PRD1-L305 | Dolly for S36PR truss, wing type, length 10ft | 14.5 kg |
| S36PRD2-L122 | Dolly for S36PR truss, length 4ft             | 34 kg   |
| S36PRD2-L244 | Dolly for S36PR truss, length 8ft             | 38 kg   |
| S36PRD2-L305 | Dolly for S36PR truss, length 10ft            | 40 kg   |
| S36PRA-T-122 | extra tube for PRT 2 4ft incl bolts and nuts  | 2.4 kg  |
| S36PRA-T-244 | extra tube for PRT 2 8ft incl bolts and nuts  | 4 kg    |
| S36PRA-T-305 | extra tube for PRT 2 10ft incl bolts and nuts | 4.9 kg  |
|              | pins to connect trusses (4 per type needed)   |         |
| ACC-LP-16    | LOCKING PIN FOR CCS6-HINGE                    |         |
| CCS7-705     | SPIGOT R-SPRING, CCS 700                      |         |
| ACC-LP-10    | Removable pin with clip for legs dollies      |         |
|              |   |         |



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

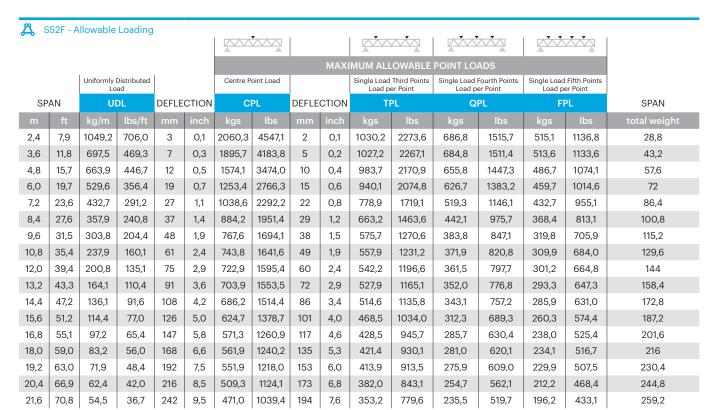
The S52SV has 4-sided diagonal webbing and can therefore handle vertical as well as horizontal loads. The S52V/S52F can only handle vertical loading. The S52F folding truss can save up to 70-80% of warehouse and truck space, while the smart placing of the hinges reduces the risk of hand and finger injuries.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











- 1 inch = 25,4 mm | 1m = 3.28 ft | 1 lbs = 0,453 kg
- Tüv certification only valid for loading table above.
- · Loading figures are only valid for static loads.
- Loading figures are only valid for single spans with supports at both ends.
- All static systems, other than single spans, need an individual structural calculation. Please contact a structural engineer or Prolyte for assistance.
- · Loading figures are calculated according to and in full compliance with European standards (Eurocode).
- The self-weight of the trusses is already taken into account.
- · Loading figures are only valid for the cross sectional orientation of the truss as shown by the icon in the loading table.
- The interaction between bending moment and shear force at the connection point is already taken into account.
- Truss spans can be assembled from different truss lengths.
- Read the manual before assembling, using and loading the truss.

| Technical Specifications - S52 Series |                                      |  |  |  |
|---------------------------------------|--------------------------------------|--|--|--|
| Types                                 | Folding (F), Square (V)              |  |  |  |
| Alloy                                 | EN AW 6082 T6                        |  |  |  |
| Main Chords                           | 50 x 4 mm                            |  |  |  |
| Diagonal Members                      | S52F - 25 x 3 mm S52V/SV - 30 x 3 mm |  |  |  |
| Coupling System                       | CCS7                                 |  |  |  |

Structural data can be found at www.prolyte.com

| S52V / S52SV | / / S52F - Standard | available Lengths and Codes |
|--------------|---------------------|-----------------------------|
| Metres       | Feet                | Code*                       |
| 0,60         | 1.97                | S52•-L060 S52F-L060         |
| 0,80         | 2.62                | S52•-L080 S52F-L080         |
| 1,00         | 3.28                | S52•-L100                   |
| 1,20         | 3.94                | S52•-L120 S52F-L120         |
| 1,50         | 4.92                | S52•-L150                   |
| 1,60         | 5.25                | S52•-L160 S52F-L160         |
| 2,00         | 6.56                | S52•-L200                   |
| 2,40         | 7.87                | S52•-L240 S52F-L240         |
| 2,50         | 8.20                | S52•-L250                   |
| 3,00         | 9.84                | S52•-L300                   |
| 3,20         | 10.50               | S52•-L320                   |
| 4,00         | 13.12               | S52•-L400                   |

\*on  $\bullet$  indicate V for Square and SV for Square truss with

4-sided webbing. Example: S52V-L200

|    |      |                   |        |       |        |          |           |       | MAXI   | MUM ALLO               | DWABLE P | OINT LOA              | DS                        |        |                                  |              |
|----|------|-------------------|--------|-------|--------|----------|-----------|-------|--------|------------------------|----------|-----------------------|---------------------------|--------|----------------------------------|--------------|
|    |      | Uniformly I<br>Lo |        |       |        | Centre P | oint Load |       |        | Single Load<br>Load pe |          | Single Load<br>Load p | Fourth Points<br>er Point | Po     | Load Fifth<br>pints<br>per Point |              |
| SI | PAN  | U                 | )L     | DEFLI | ECTION | C        | PL        | DEFLE | ECTION | TE                     | L        | Q                     | PL                        | F      | PL                               | SPAN         |
|    | ft   | kg/m              | lbs/ft | mm    | inch   | kgs      | lbs       | mm    | inch   | kgs                    | lbs      | kgs                   | lbs                       | kgs    | lbs                              | total weight |
| 3  | 9,8  | 1880,2            | 1265,1 | 5     | 0,2    | 2962,7   | 6538,7    | 4     | 0,2    | 1863,5                 | 4112,8   | 1410,7                | 3113,4                    | 1144,2 | 2525,2                           | 45,0         |
| 4  | 13,1 | 1406,8            | 946,6  | 9     | 0,4    | 2526,0   | 5574,9    | 7     | 0,3    | 1584,5                 | 3496,9   | 1239,4                | 2735,3                    | 1028,6 | 2270,1                           | 60,0         |
| 5  | 16,4 | 1122,7            | 755,5  | 14    | 0,5    | 2198,7   | 4852,4    | 11    | 0,4    | 1394,6                 | 3078,0   | 1115,6                | 2462,2                    | 931,1  | 2055,0                           | 75,0         |
| 6  | 19,7 | 895,7             | 602,7  | 20    | 0,8    | 1943,7   | 4289,6    | 16    | 0,6    | 1254,9                 | 2769,7   | 1020,4                | 2252,0                    | 854,2  | 1885,1                           | 90,0         |
| 7  | 23,0 | 654,5             | 440,4  | 27    | 1,1    | 1738,9   | 3837,8    | 22    | 0,9    | 1139,2                 | 2514,2   | 938,8                 | 2072,0                    | 759,5  | 1676,3                           | 105,0        |
| 8  | 26,2 | 497,9             | 335,0  | 36    | 1,4    | 1570,6   | 3466,3    | 29    | 1,1    | 1041,5                 | 2298,6   | 868,0                 | 1915,6                    | 682,6  | 1506,5                           | 120,0        |
| 9  | 29,5 | 390,6             | 262,8  | 45    | 1,8    | 1429,4   | 3154,7    | 36    | 1,4    | 957,8                  | 2113,9   | 805,7                 | 1778,3                    | 618,6  | 1365,3                           | 135,0        |
| 10 | 32,8 | 313,8             | 211,2  | 56    | 2,2    | 1309,1   | 2889,1    | 45    | 1,8    | 885,2                  | 1953,6   | 733,5                 | 1618,8                    | 564,6  | 1246,0                           | 150,0        |
| 11 | 36,1 | 257,0             | 172,9  | 68    | 2,7    | 1205,0   | 2659,5    | 54    | 2,1    | 821,4                  | 1812,9   | 668,8                 | 1476,0                    | 518,1  | 1143,5                           | 165,0        |
| 12 | 39,4 | 213,8             | 143,9  | 80    | 3,2    | 1114,0   | 2458,6    | 64    | 2,5    | 764,9                  | 1688,1   | 613,2                 | 1353,3                    | 477,8  | 1054,4                           | 180,0        |
| 13 | 42,6 | 180,2             | 121,2  | 94    | 3,7    | 1033,5   | 2281,0    | 76    | 3,0    | 714,3                  | 1576,5   | 564,8                 | 1246,4                    | 442,2  | 976,0                            | 195,0        |
| 14 | 45,9 | 153,5             | 103,3  | 109   | 4,3    | 961,7    | 2122,5    | 88    | 3,4    | 668,7                  | 1475,9   | 522,1                 | 1152,4                    | 410,7  | 906,4                            | 210,0        |
| 15 | 49,2 | 132,0             | 88,8   | 126   | 4,9    | 897,1    | 1979,9    | 101   | 4,0    | 627,4                  | 1384,6   | 484,3                 | 1068,8                    | 382,5  | 844,1                            | 225,0        |
| 16 | 52,5 | 114,4             | 76,9   | 143   | 5,6    | 838,5    | 1850,7    | 114   | 4,5    | 589,6                  | 1301,2   | 450,3                 | 993,9                     | 357,0  | 787,8                            | 240,0        |
| 17 | 55,8 | 99,8              | 67,1   | 161   | 6,4    | 785,1    | 1732,8    | 129   | 5,1    | 554,9                  | 1224,6   | 419,7                 | 926,2                     | 333,8  | 736,7                            | 255,0        |
| 18 | 59,0 | 87,5              | 58,9   | 181   | 7,1    | 736,1    | 1624,6    | 145   | 5,7    | 522,8                  | 1153,8   | 391,8                 | 864,6                     | 312,6  | 689,9                            | 270,0        |
| 19 | 62,3 | 77,2              | 51,9   | 202   | 7,9    | 690,9    | 1524,8    | 161   | 6,4    | 493,0                  | 1088,0   | 366,2                 | 808,3                     | 293,1  | 646,9                            | 285,0        |
| 20 | 65,6 | 68,3              | 46,0   | 223   | 8,8    | 648,9    | 1432,2    | 179   | 7,0    | 465,2                  | 1026,7   | 341,7                 | 754,0                     | 275,1  | 607,1                            | 300,0        |

1 inch = 25,4 mm  $\mid$  1m = 3.28 ft  $\mid$  1 lbs = 0,453 kg



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- · Loading figures are only valid for static loads.
- Loading figures are only valid for single spans with supports at both ends.
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- Loading figures are calculated according to and in full compliance with European standards (Eurocode).
- The self-weight of the trusses is already taken into account.
- · Loading figures are only valid for the cross sectional orientation of the truss as shown by the icon in the loading table.
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- Truss spans can be assembled from different truss lengths.
- Read the manual before assembling, using and loading the truss.





| 121 | ₹ S52SV - Allowable Loading |           |        |       |       |          |           |          |         |                        |          |               |          |             |                          |              |
|-----|-----------------------------|-----------|--------|-------|-------|----------|-----------|----------|---------|------------------------|----------|---------------|----------|-------------|--------------------------|--------------|
|     |                             |           |        |       |       |          |           |          |         |                        | <b>V</b> |               | <b>*</b> |             |                          |              |
|     | MAX                         |           |        |       |       |          |           | IMUM ALL | .OWABLE | POINT LO               | ADS      |               |          |             |                          |              |
|     |                             | Uniformly |        |       |       | Centre P | oint Load |          |         | Single Load<br>Load pe |          | Single Load F |          | Single Load | Fifth Points<br>er Point |              |
| SP  | AN                          | UI        |        | DEFLE | CTION | C        | PL        | DEFLE    | CTION   | TF                     |          | QF            |          | FF          |                          | SPAN         |
|     |                             |           |        |       |       |          |           |          |         |                        |          |               |          |             |                          |              |
| m   | ft                          | kg/m      | lbs/ft | mm    | inch  | kgs      | lbs       | mm       | inch    | kgs                    | lbs      | kgs           | lbs      | kgs         | lbs                      | total weight |
| 3   | 9,8                         | 1880,2    | 1265,1 | 5     | 0,2   | 2946,1   | 6501,9    | 4        | 0,2     | 1863,5                 | 4112,8   | 1410,7        | 3113,4   | 1144,2      | 2525,2                   | 45,0         |
| 4   | 13,1                        | 1406,8    | 946,6  | 9     | 0,4   | 2505,6   | 5529,8    | 7        | 0,3     | 1584,5                 | 3496,9   | 1239,4        | 2735,3   | 1028,6      | 2270,1                   | 60,0         |
| 5   | 16,4                        | 1122,7    | 755,5  | 15    | 0,6   | 2179,5   | 4810,2    | 12       | 0,5     | 1384,5                 | 3055,5   | 1109,0        | 2447,6   | 927,3       | 2046,5                   | 75,0         |
| 6   | 19,7                        | 933,4     | 628,0  | 21    | 0,8   | 1925,9   | 4250,5    | 17       | 0,7     | 1245,2                 | 2748,1   | 1013,9        | 2237,7   | 846,0       | 1867,2                   | 90,0         |
| 7   | 23,0                        | 686,7     | 462,1  | 29    | 1,1   | 1722,6   | 3801,8    | 23       | 0,9     | 1129,9                 | 2493,8   | 932,5         | 2058,1   | 752,1       | 1660,0                   | 105,0        |
| 8   | 26,2                        | 522,6     | 351,7  | 37    | 1,5   | 1555,6   | 3433,2    | 30       | 1,2     | 1032,8                 | 2279,4   | 862,0         | 1902,4   | 675,9       | 1491,6                   | 120,0        |
| 9   | 29,5                        | 410,1     | 275,9  | 47    | 1,9   | 1415,7   | 3124,5    | 38       | 1,5     | 949,7                  | 2096,1   | 800,1         | 1765,8   | 612,6       | 1351,9                   | 135,0        |
| 10  | 32,8                        | 329,6     | 221,8  | 59    | 2,3   | 1296,6   | 2861,6    | 47       | 1,8     | 877,7                  | 1937,1   | 725,7         | 1601,6   | 559,1       | 1233,9                   | 150,0        |
| 11  | 36,1                        | 270,1     | 181,7  | 71    | 2,8   | 1193,7   | 2634,6    | 57       | 2,2     | 814,5                  | 1797,6   | 661,8         | 1460,7   | 513,2       | 1132,6                   | 165,0        |
| 12  | 39,4                        | 224,8     | 151,2  | 84    | 3,3   | 1103,8   | 2436,1    | 67       | 2,7     | 758,6                  | 1674,1   | 607,0         | 1339,7   | 473,3       | 1044,6                   | 180,0        |
| 13  | 42,6                        | 189,5     | 127,5  | 99    | 3,9   | 1024,4   | 2260,8    | 79       | 3,1     | 708,6                  | 1563,8   | 559,3         | 1234,4   | 438,3       | 967,3                    | 195,0        |
| 14  | 45,9                        | 161,6     | 108,7  | 115   | 4,5   | 953,6    | 2104,5    | 92       | 3,6     | 663,6                  | 1464,5   | 517,3         | 1141,8   | 407,2       | 898,7                    | 210,0        |
| 15  | 49,2                        | 139,0     | 93,5   | 132   | 5,2   | 889,9    | 1964,0    | 105      | 4,1     | 622,7                  | 1374,4   | 480,1         | 1059,5   | 379,4       | 837,3                    | 225,0        |
| 16  | 52,5                        | 120,5     | 81,1   | 150   | 5,9   | 832,3    | 1836,8    | 120      | 4,7     | 585,5                  | 1292,1   | 446,7         | 985,9    | 354,3       | 781,9                    | 240,0        |
| 17  | 55,8                        | 105,2     | 70,8   | 169   | 6,7   | 779,7    | 1720,8    | 135      | 5,3     | 551,3                  | 1216,7   | 416,6         | 919,4    | 331,5       | 731,6                    | 255,0        |
| 18  | 59,0                        | 92,4      | 62,2   | 190   | 7,5   | 731,5    | 1614,5    | 152      | 6,0     | 519,7                  | 1147,0   | 389,2         | 858,9    | 310,7       | 685,6                    | 270,0        |
| 19  | 62,3                        | 81,5      | 54,9   | 211   | 8,3   | 687,1    | 1516,5    | 169      | 6,7     | 490,4                  | 1082,4   | 364,1         | 803,7    | 291,5       | 643,4                    | 285,0        |
| 20  | 65,6                        | 72,3      | 48,6   | 234   | 9,2   | 646,0    | 1425,7    | 187      | 7,4     | 463,2                  | 1022,2   | 341,1         | 752,9    | 273,8       | 604,4                    | 300,0        |

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

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- Loading figures are only valid for static loads.
- Loading figures are only valid for single spans with supports at both ends.
- All static systems, other than single spans, need an individual structural calculation. Please contact a structural engineer or Prolyte for assistance.
- · Loading figures are calculated according to and in full compliance with European standards (Eurocode).
- The self-weight of the trusses is already taken into account.
- Loading figures are only valid for the cross sectional orientation of the truss as shown by the icon in the loading table.
- The interaction between bending moment and shear force at the connection point is already taken into account.
- Truss spans can be assembled from different truss lengths.
- Read the manual before assembling, using and loading the truss.

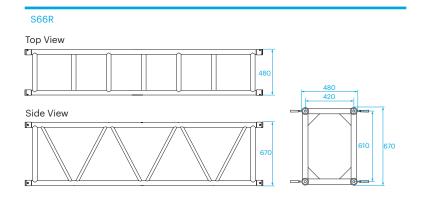


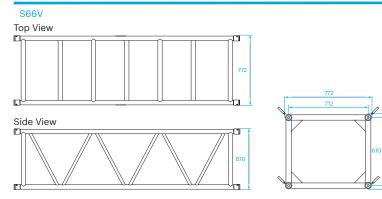
Photo: Italstage, Italy.

S66 Series truss is constructed of main chords (50 x 4 mm) and diagonal members (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 Series truss elements that provide maximum flexibility, including standard or custom-

made lengths, circles and arches and several types of corners. Prolyte can create custom-made pieces on request.

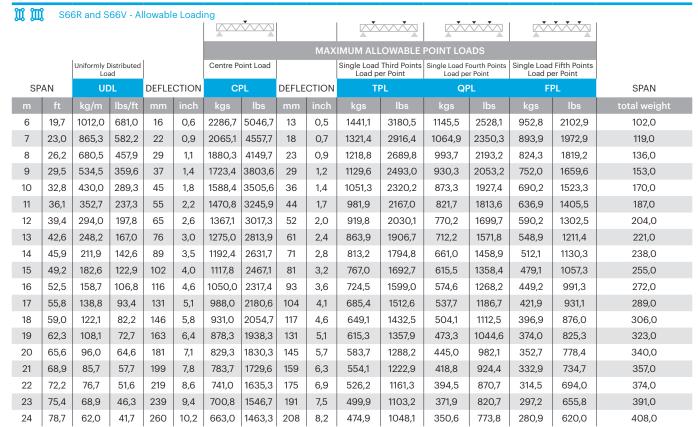












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- Truss spans can be assembled from different truss lengths.
- Read the manual before assembling, using and loading the truss.

| Technical Specifications - S66 Series |                             |  |  |  |
|---------------------------------------|-----------------------------|--|--|--|
| Types                                 | Rectangular (R), Square (V) |  |  |  |
| Alloy                                 | EN AW 6082 T6               |  |  |  |
| Main Chords                           | 50 x 4 mm                   |  |  |  |
| Diagonal Members                      | 30 x 3 mm                   |  |  |  |
| Coupling System                       | CCS7                        |  |  |  |

Structural data can be found at www.prolyte.com

| S66 Series - Standard available Lengths and Codes |                            |           |  |  |  |
|---|----------------------------|-----------|--|--|--|
| Metres  | Feet                       | Code*     |  |  |  |
| 0.50/1.00 m in 5 mm steps                         | 0.82'/3.28', in 0.2' steps |           |  |  |  |
| 1,00  | 3.28                       | S66•-L100 |  |  |  |
| 1,50  | 4.92                       | S66•-L150 |  |  |  |
| 1,74*   | 5.71                       | S66•-L174 |  |  |  |
| 2,00  | 6.56                       | S66•-L200 |  |  |  |
| 2,50*   | 8.20                       | S66•-L250 |  |  |  |
| 3,00  | 9.84                       | S66•-L300 |  |  |  |
| 3,26*   | 10.69                      | S66•-L326 |  |  |  |
| 4,00  | 13.12                      | S66•-L400 |  |  |  |

\*on • indicate R for Rectangular, V for Square truss.

Example: S66V-L200

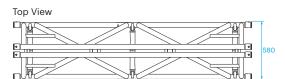


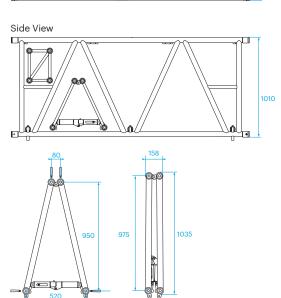
Photo: AED RENT, Belgium. Project: Fashion show.

S100F truss is constructed of main chords (50 x 4 mm), diagonal members (48 x 3 mm), and uses the CCS7 coupling system. Prolyte supplies a variety of S100F truss elements that provide maximum flexibility, including standard or custommade lengths and several types of corners. Prolyte can create custom-made pieces on request. For obvious reasons, the S100F is not available in curved sections. Increased truss height and larger diagonal members make it possible to assemble 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 members are welded between the diagonal members to make it possible for technicians to climb the truss. The S100F Series 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 easy.

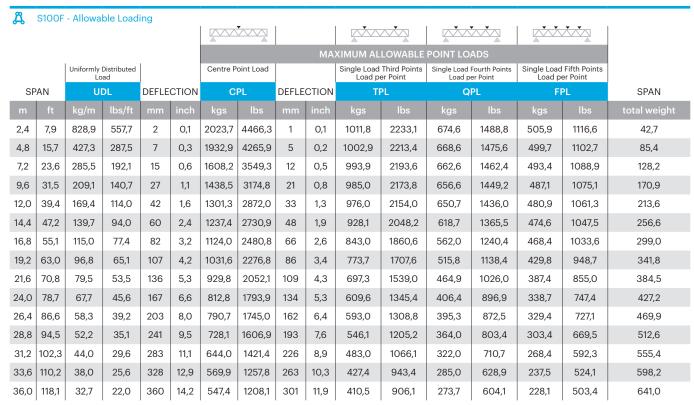
#### S100F











- $1 \text{ inch} = 25,4 \text{ mm} \mid 1 \text{m} = 3.28 \text{ ft} \mid 1 \text{ lbs} = 0,453 \text{ kg}$
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- Truss spans can be assembled from different truss lengths.
- Read the manual before assembling, using and loading the truss.

| Technical Specifications - S100F |               |  |  |  |
|----------------------------------|---------------|--|--|--|
| Types                            | Folding (F)   |  |  |  |
| Alloy                            | EN AW 6082 T6 |  |  |  |
| Main Chords                      | 50 x 4 mm     |  |  |  |
| Diagonal members                 | 48 x 3 mm     |  |  |  |
| Coupling System                  | CCS7          |  |  |  |

Structural data can be found at www.prolyte.com

| S100F - Standard available Lengths and Codes |      |            |  |  |  |
|--|------|------------|--|--|--|
| Metres                                       | Feet | Code       |  |  |  |
| 0,74   | 3.28 | S100F-L074 |  |  |  |
| 0,80   | 2.62 | S100F-L080 |  |  |  |
| 1,20   | 3.94 | S100F-L120 |  |  |  |
| 1,60   | 5.25 | S100F-L160 |  |  |  |
| 2,40   | 7,87 | S100F-L240 |  |  |  |

Other Lengths on request

#### BGR70 A low volume truss with extreme load bearing capacity.

The BGR70 truss is designed to create large spans that can hold heavy loads. Compared to conventional B100RV Series truss systems, the BGR70 truss is 40% stronger and safes up to 35% transport volume. Rectangular profiles create a truss that can be used for spans up to 45 metres, still allowing a centre point load of 750 kg.

#### Application scope

Due to its low volume and height, combined with a high load bearing capacity, the BGR70 truss is extremely suitable as a mother grid, or to support a front façade for large sets, like on dance festivals. Due to its zero deflection, the BGR70 truss is ideal in applications with motion or LED screens.

#### BGR70 benefits:

- Tool-less system, no tools needed for assembly and disassembly
- Low volume element reduces transport volume and storage costs
- · Integration for dolly and lifting bracket
- Zero deflection, due to pre-camber system. Ideal for motion or LED applications.
- Strong and compact loads up to 3300kg on a 20 m span.
- Integration to accommodate cross trusses
- Designed in compliance with Eurocodes, manufactured following EN1090 standards.
- Can be stacked to 3-units height to facilitate transport inside the truss span, thereby reducing total trim-height.



#### Flexible options

The BGR70 truss can easily accommodate 30-series truss. The spacing of the braces is designed to facilitate the placing of 30-series truss in between the bracing. Perfect for pre-rig applications or when constructing mother grids.

The removable wheel dollies facilitate handling and transport. When rigged, the dolly can be removed or replaced to guarantee a clean look.



#### Integrated hoist adapter

A special hoist adapter is designed for the BGR70 truss. This adapter can be used either at the end of span or in between two truss sections, offering a fully integrated suspension system. The hoist can be mounted above or inside the truss span, thereby reducing total trim-height.

#### Indoor and outdoor application

Due to its 4-sided webbing the BGR70 truss can be used in vertical as well as a horizontal plane, or a combination of these. Creating possibilities for outdoor and indoor applications, as well as combinations in 2 or 3 dimensional structures.



#### BGR70 accessories

Wheel dolly BGR70-DOLLY-01 Lifting bracket BGR70-LIFT-01 Rigging bracket BGR70-RIG-01





#### Zero deflection due to pre-cambering

Using the unique pre-camber options, you can create an absolute straight truss span. Using the BGR70 truss with pre-camber options, you can create an absolute straight truss span. Depending on the applied load, a combination of spacers ranging from 0mm to 4 mm can create a pre-camber effect that will result in zero deflection, despite the applied loading. This is a great feature when using motion or led screens.

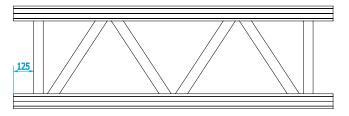
#### The loading table is for regular use - without any pre-camber effect.

Intermediate values can be found by interpolating, taking the following variable values into account:

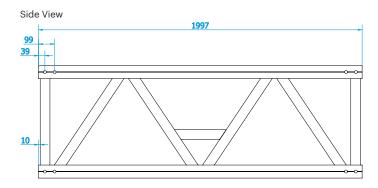
- Span
- Load applied
- Spacers types used
- Allowable deflection

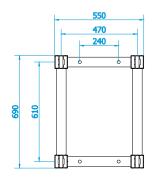
#### BGR70

Top View









| recnnical Specifications | s - BGR/U                |
|--------------------------|--------------------------|
| Type                     | BGR70                    |
| Alloy                    | EN AW 6082-T6            |
| Truss height             | 690 mm                   |
| Truss width              | 550 mm                   |
| Self-weight              | 45 kg/m                  |
| Main chord               | 80x80x5 mm               |
| Bracing                  | 60x60x3,5 mm             |
| Coupling system          | Lug 70x20 mm + pin 18 mm |
|                          |                          |

| Spacer, Pin and Clip - BGR70 |            |  |  |  |
|------------------------------|------------|--|--|--|
| Spacer 0mm                   | BGR-S00    |  |  |  |
| Spacer 1mm                   | BGR-S01    |  |  |  |
| Spacer 2mm                   | BGR-S02    |  |  |  |
| Spacer 3mm                   | BGR-S03    |  |  |  |
| Spacer 4mm                   | BGR-S04    |  |  |  |
| BGR Locking pin 18mm         | BGR70-LP18 |  |  |  |
| SAFETY CLIP 4MM              | ACC-LP-04  |  |  |  |

| BGR70 - stand | lard available le | ngths and codes |
|---------------|-------------------|-----------------|
| Metres        | Feet              | Code            |
| 0,50          | 1,64              | BGR70-L050      |
| 1,00          | 3,28              | BGR70-L100      |
| 2,00          | 6,56              | BGR70-L200      |



| BGR7 | 0 - Allowa     | able Load | ding       |        |       |           |           |        |       |           |           |           |           |          |           |              |
|------|----------------|-----------|------------|--------|-------|-----------|-----------|--------|-------|-----------|-----------|-----------|-----------|----------|-----------|--------------|
|      |                |           |            |        |       |           |           |        |       |           | <b>V</b>  |           |           |          | × ×       |              |
|      |                |           |            |        |       |           |           | М      | AXIMU | M ALLO    | WABLE P   | OINT LO   | ADS       |          |           |              |
|      |                | Uniforml  | y Distrib- |        |       | Centre Si | ngle Load |        |       | Single Lo | oad Third | Single Lo | ad Fourth | Single L | oad Fifth |              |
| SI   | PAN            | UI        |            | DFFI F | CTION | C         | PI        | DFFI F | CTION | T         |           | Q         |           | FI       |           | SPAN         |
| m    | ft             | kg/m      | lbs/ft     | mm     | inch  | kg        | lbs       | mm     | inch  | kg        | lbs       | kg        | lbs       | kg       | lbs       | total weight |
| 10   | 32,8           | 1453      | 978        | 37     | 1,5   | 7267      | 16038     | 30     | 1,2   | 5450      | 12028     | 3633      | 8019      | 3028     | 6682      | 450          |
| 11   | 36,1           | 1194      | 803        | 45     | 1,8   | 6568      | 14495     | 36     | 1,4   | 4926      | 10871     | 3284      | 7247      | 2736     | 6039      | 495          |
| 12   | 39,4           | 997       | 671        | 54     | 2,1   | 5981      | 13201     | 44     | 1,7   | 4486      | 9901      | 2991      | 6601      | 2492     | 5500      | 540          |
| 13   | 42,6           | 843       | 568        | 63     | 2,5   | 5482      | 12100     | 51     | 2,0   | 4112      | 9075      | 2741      | 6050      | 2284     | 5042      | 585          |
| 14   | 45,9           | 722       | 486        | 73     | 2,9   | 5052      | 11149     | 60     | 2,3   | 3789      | 8362      | 2526      | 5575      | 2105     | 4645      | 630          |
| 15   | 49,2           | 623       | 419        | 84     | 3,3   | 4676      | 10320     | 69     | 2,7   | 3507      | 7740      | 2338      | 5160      | 1948     | 4300      | 675          |
| 16   | 52,5           | 543       | 365        | 96     | 3,8   | 4344      | 9588      | 78     | 3,1   | 3258      | 7191      | 2172      | 4794      | 1810     | 3995      | 720          |
| 17   | 55,8           | 476       | 321        | 109    | 4,3   | 4049      | 8937      | 89     | 3,5   | 3037      | 6703      | 2025      | 4469      | 1687     | 3724      | 765          |
| 18   | 59,0           | 421       | 283        | 122    | 4,8   | 3785      | 8354      | 100    | 3,9   | 2839      | 6265      | 1893      | 4177      | 1577     | 3481      | 810          |
| 19   | 62,3           | 373       | 251        | 136    | 5,3   | 3546      | 7827      | 112    | 4,4   | 2660      | 5870      | 1773      | 3914      | 1478     | 3261      | 855          |
| 20   | 65,6           | 333       | 224        | 151    | 5,9   | 3330      | 7349      | 124    | 4,9   | 2497      | 5511      | 1665      | 3674      | 1387     | 3062      | 900          |
| 21   | 68,9           | 298       | 201        | 166    | 6,5   | 3132      | 6911      | 137    | 5,4   | 2349      | 5184      | 1566      | 3456      | 1305     | 2880      | 945          |
| 22   | 72,2           | 268       | 180        | 183    | 7,2   | 2950      | 6510      | 151    | 6,0   | 2212      | 4882      | 1475      | 3255      | 1229     | 2712      | 990          |
| 23   | 75,4           | 242       | 163        | 200    | 7,9   | 2782      | 6139      | 166    | 6,5   | 2086      | 4605      | 1391      | 3070      | 1159     | 2558      | 1035         |
| 24   | 78,7           | 219       | 147        | 218    | 8,6   | 2626      | 5796      | 182    | 7,2   | 1970      | 4347      | 1313      | 2898      | 1094     | 2415      | 1080         |
| 25   | 82,0           | 199       | 134        | 237    | 9,3   | 2481      | 5477      | 198    | 7,8   | 1861      | 4107      | 1241      | 2738      | 1034     | 2282      | 1125         |
| 26   | 85,3           | 180       | 121        | 257    | 10,1  | 2346      | 5178      | 216    | 8,5   | 1760      | 3884      | 1173      | 2589      | 978      | 2158      | 1170         |
| 27   | 88,6           | 164       | 111        | 277    | 10,9  | 2220      | 4899      | 234    | 9,2   | 1665      | 3674      | 1110      | 2449      | 925      | 2041      | 1215         |
| 28   | 91,8           | 150       | 101        | 299    | 11,8  | 2101      | 4636      | 253    | 10,0  | 1575      | 3477      | 1050      | 2318      | 875      | 1932      | 1260         |
| 29   | 95,1           | 137       | 92         | 321    | 12,6  | 1988      | 4388      | 273    | 10,7  | 1491      | 3291      | 994       | 2194      | 828      | 1828      | 1305         |
| 30   | 98,4           | 125       | 84         | 344    | 13,5  | 1882      | 4154      | 293    | 11,6  | 1412      | 3116      | 941       | 2077      | 784      | 1731      | 1350         |
| 31   | 101,7          | 115       | 77         | 368    | 14,5  | 1782      | 3932      | 315    | 12,4  | 1336      | 2949      | 891       | 1966      | 742      | 1638      | 1395         |
| 32   | 105,0          | 105       | 71         | 393    | 15,5  | 1686      | 3721      | 338    | 13,3  | 1265      | 2791      | 843       | 1861      | 703      | 1551      | 1440         |
| 33   | 108,2          | 97        | 65         | 419    | 16,5  | 1595      | 3521      | 362    | 14,2  | 1196      | 2640      | 798       | 1760      | 665      | 1467      | 1485         |
| 34   | 111,5          | 89        | 60         | 445    | 17,5  | 1508      | 3329      | 386    | 15,2  | 1131      | 2497      | 754       | 1664      | 628      | 1387      | 1530         |
| 35   | 114,8          | 81        | 55         | 473    | 18,6  | 1425      | 3146      | 412    | 16,2  | 1069      | 2359      | 713       | 1573      | 594      | 1311      | 1575         |
| 36   | 118,1          | 75        | 50         | 501    | 19,7  | 1346      | 2970      | 439    | 17,3  | 1009      | 2228      | 673       | 1485      | 561      | 1238      | 1620         |
| 37   | 121,4          | 69        | 46         | 531    | 20,9  | 1269      | 2802      | 467    | 18,4  | 952       | 2101      | 635       | 1401      | 529      | 1167      | 1665         |
| 38   | 124,6          | 63        | 42         | 561    | 22,1  | 1196      | 2640      | 496    | 19,5  | 897       | 1980      | 598       | 1320      | 498      | 1100      | 1710         |
| 39   | 127,9          | 58        | 39         | 592    | 23,3  | 1125      | 2484      | 526    | 20,7  | 844       | 1863      | 563       | 1242      | 469      | 1035      | 1755         |
| 40   | 131,2          | 53        | 36         | 624    | 24,6  | 1057      | 2334      | 557    | 21,9  | 793       | 1750      | 529       | 1167      | 441      | 972       | 1800         |
| 41   | 134,5          | 48        | 33         | 657    | 25,9  | 992       | 2188      | 589    | 23,2  | 744       | 1641      | 496       | 1094      | 413      | 912       | 1845         |
| 42   | 137,8          | 44        | 30         | 692    | 27,2  | 928       | 2048      | 623    | 24,5  | 696       | 1536      | 464       | 1024      | 387      | 853       | 1890         |
| 43   | 141,0          | 40        | 27         | 727    | 28,6  | 866       | 1912      | 658    | 25,9  | 650       | 1434      | 433       | 956       | 361      | 797       | 1935         |
| 44   | 144,3<br>147,6 | 37<br>33  | 25<br>22   | 763    | 30,0  | 807       | 1780      | 694    | 27,3  | 605       | 1335      | 403       | 890       | 336      | 742       | 1980         |
| 45   | 800            | 31,5      | 749        | 1652   | 732   | 28,8      | 561       | 1239   | 374   | 826       | 312       | 688       | 2025      |          |           |              |

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

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- Loading figures are only valid for single spans with supports at both ends.
- All static systems, other than single spans, need an individual structural calculation. Please contact a structural engineer or Prolyte Group for assistance.
- Loading figures are calculated according to and in full compliance with European standards (Eurocode).
- The self-weight of the trusses is already taken into account.
- · Loading figures are only valid for the cross sectional orientation of the truss as shown by the icon in the loading table.
- The interaction between bending moment and shear force at the connection point is already taken into account.
- Truss spans can be assembled from different truss lengths.
- Read the manual before assembling, using and loading the truss.





Photo: PROmontaje, Venezuela, Premios Pepsi Music (PPM) Awards

B100RV truss is constructed of main chords (60 x 6 mm) and diagonal members (48 x 3 mm), and uses the CCS7 coupling system. Prolyte supplies a variety of B100RV truss elements that provide maximum flexibility, including standard or custommade lengths, circles and arches and corners. Prolyte can create custom-made pieces on request. Due to the 4-sided webbing of the B100RV 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.

#### B100RV

Top View 406 580 580

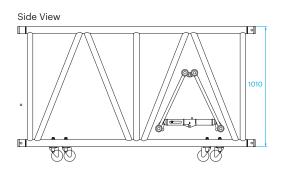








Photo: Kühl Beschallung, Dubai

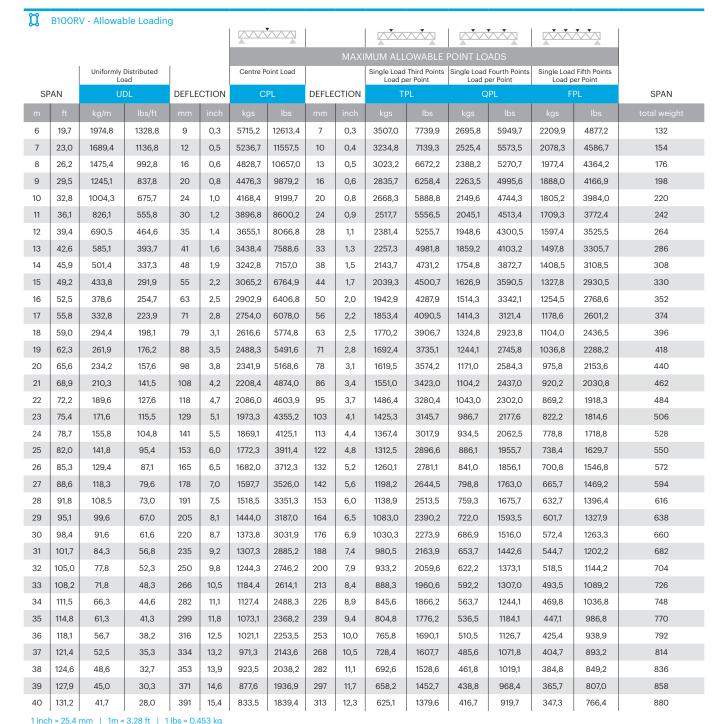
| Technical Specifica | tions - B100RV Series |
|---------------------|-----------------------|
| Types               | Rectangular (R)       |
| Alloy               | EN AW 6082 T6         |
| Main Chords         | 60 x 6 mm             |
| Diagonal Members    | 48 x 3 mm             |
| Coupling System     | CCS7                  |

Structural data can be found at www.prolyte.com

| B100RV Series - Stand | ard available Lengths a | and Codes   |
|-----------------------|-------------------------|-------------|
| Metres                | Feet                    | Code        |
| 0,74                  | 2.43                    | B100RV-L074 |
| 0,80                  | 2.62                    | B100RV-L080 |
| 1,00                  | 3.28                    | B100RV-L100 |
| 1,20                  | 3.94                    | B100RV-L120 |
| 1,60                  | 5.25                    | B100RV-L160 |
| 2,00                  | 6.56                    | B100RV-L200 |
| 2,40                  | 7.87                    | B100RV-L240 |
| 2,50                  | 8.20                    | B100RV-L250 |
| 3,00                  | 9.84                    | B100RV-L300 |
| 3,20                  | 10.50                   | B100RV-L320 |
| 4,00                  | 13.12                   | B100RV-L400 |
|                       |                         |             |

Other Lengths on request





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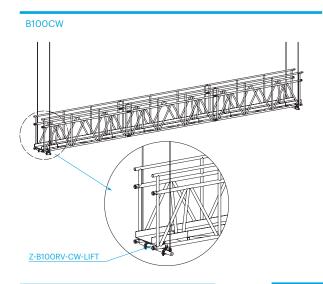


Photo: Jan Hoefnagels, Flashlight Rental BV, The Netherlands. Project: Blue Man Group.

The design of the Prolyte Catwalk Truss (B100RV-CW) is based on the B100RV. It can be used to create mother grids or working platforms, and in a theatrical environment it can be used for prosceniums or lighting bridges. The B100RV-CW truss is fitted

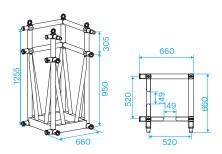
with an extra handrail on the top side and a reinforced plate on the bottom side to create a walking platform. The Catwalk Truss can be flown by assembling bracing bars with fixed lifting eyes to the bottom braces of the truss.

The Catwalk truss is standard non-powder coated.

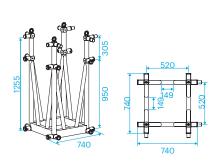




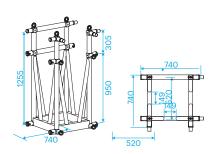
B100CW-C003



B100CW-C016



B100CW-C017







| Ц В | 100CW | - Allowak | ole Loadi         | ng    |       |                                |           |       |       |          |                          |          |                           |        |                            |              |
|-----|-------|-----------|-------------------|-------|-------|--------------------------------|-----------|-------|-------|----------|--------------------------|----------|---------------------------|--------|----------------------------|--------------|
|     |       |           |                   |       |       |                                |           |       |       |          |                          |          |                           |        |                            |              |
|     |       |           |                   |       |       |                                |           |       | MAX   | XIMUM AL | LOWABLE                  | POINT LO | ADS                       |        |                            |              |
|     |       |           | Distributed<br>ad |       |       | Centre P                       | oint Load |       |       |          | Third Points<br>er Point |          | Fourth Points<br>er Point |        | l Fifth Points<br>er Point |              |
| SP  | AN    | U         | DL                | DEFLE | CTION | C                              | PL        | DEFLE | CTION | TI       | PL                       | Q        | PL                        | FI     | PL                         | SPAN         |
| m   | ft    | kg/m      | lbs/ft            | mm    | inch  | kgs                            | lbs       | mm    | inch  | kgs      | lbs                      | kgs      | lbs                       | kgs    | lbs                        | total weight |
| 4   | 13,1  | 1475,0    | 992,5             | 1     | 0,04  | 3188,7                         | 7037,4    | 1     | 0,04  | 2391,5   | 5278,0                   | 1594,3   | 3518,7                    | 1328,6 | 2932,2                     | 120,0        |
| 5   | 16,4  | 1010,7    | 680,0             | 2     | 0,08  | 2526,6                         | 5576,3    | 1     | 0,04  | 1895,0   | 4182,2                   | 1263,3   | 2788,1                    | 1052,8 | 2323,4                     | 150,0        |
| 6   | 19,7  | 693,6     | 466,7             | 2     | 0,08  | 2080,8 4592,3<br>1758.5 3880.9 |           | 2     | 0,08  | 1560,6   | 3444,2                   | 1040,4   | 2296,1                    | 867,0  | 1913,4                     | 180,0        |
| 7   | 23,0  | 502,4     | 338,1             | 3     | 0,12  | 1758,5                         | 3880,9    | 2     | 0,08  | 1318,8   | 2910,7                   | 879,2    | 1940,5                    | 732,7  | 1617,0                     | 210,0        |
| 8   | 26,2  | 378,3     | 254,6             | 4     | 0,16  | 1513,3                         | 3339,9    | 3     | 0,12  | 1135,0   | 2504,9                   | 756,7    | 1670,0                    | 630,6  | 1391,6                     | 240,0        |
| 9   | 29,5  | 293,3     | 197,3             | 5     | 0,20  | 1319,7 2912,5                  |           | 4     | 0,16  | 989,8    | 2184,4                   | 659,8    | 1456,3                    | 549,9  | 1213,6                     | 270,0        |
| 10  | 32,8  | 232,4     | 156,4             | 6     | 0,24  | 1162,1                         | 2564,7    | 5     | 0,20  | 871,6    | 1923,5                   | 581,0    | 1282,3                    | 484,2  | 1068,6                     | 300,0        |
| 11  | 36,1  | 187,4     | 126,1             | 7     | 0,28  | 1030,7                         | 2274,6    | 6     | 0,24  | 773,0    | 1706,0                   | 515,3    | 1137,3                    | 429,4  | 947,8                      | 330,0        |
| 12  | 39,4  | 153,1     | 103,0             | 9     | 0,35  | 918,9                          | 2028,0    | 7     | 0,28  | 689,2    | 1521,0                   | 459,4    | 1014,0                    | 382,9  | 845,0                      | 360,0        |
| 13  | 42,6  | 126,5     | 85,1              | 10    | 0,39  | 822,2                          | 1814,7    | 8     | 0,31  | 616,7    | 1361,0                   | 411,1    | 907,3                     | 342,6  | 756,1                      | 390,0        |
| 14  | 45,9  | 105,4     | 70,9              | 12    | 0,47  | 737,5                          | 1627,6    | 10    | 0,39  | 553,1    | 1220,7                   | 368,7    | 813,8                     | 307,3  | 678,2                      | 420,0        |
| 15  | 49,2  | 88,3      | 59,4              | 14    | 0,55  | 662,2                          | 1461,5    | 11    | 0,43  | 496,7    | 1096,1                   | 331,1    | 730,7                     | 275,9  | 609,0                      | 450,0        |
| 16  | 52,5  | 74,3      | 50,0              | 16    | 0,63  | 594,7                          | 1312,4    | 13    | 0,51  | 446,0    | 984,3                    | 297,3    | 656,2                     | 247,8  | 546,8                      | 480,0        |
| 17  | 55,8  | 62,8      | 42,2              | 18    | 0,71  | 533,5                          | 1177,4    | 14    | 0,55  | 400,1    | 883,0                    | 266,7    | 588,7                     | 222,3  | 490,6                      | 510,0        |
| 18  | 59,0  | 53,1      | 35,7              | 20    | 0,79  | 477,6                          | 1054,0    | 16    | 0,63  | 358,2    | 790,5                    | 238,8    | 527,0                     | 199,0  | 439,2                      | 540,0        |
| 19  | 62,3  | 44,9      | 30,2              | 22    | 0,87  | 426,2                          | 940,5     | 18    | 0,71  | 319,6    | 705,4                    | 213,1    | 470,3                     | 177,6  | 391,9                      | 570,0        |
| 20  | 65,6  | 37,9      | 25,5              | 25    | 0,98  | 378,5                          | 835,4     | 20    | 0,79  | 283,9    | 626,6                    | 189,3    | 417,7                     | 157,7  | 348,1                      | 600,0        |

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

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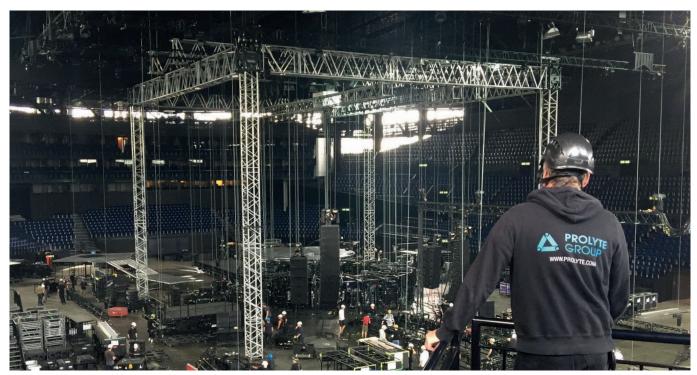


Photo: Malecon, Germany

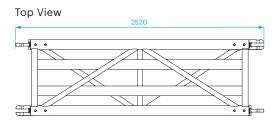
#### **BIG, BIGGER, BIGGEST?**

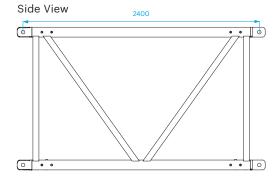
The Prolyte M145RV Mammoth Truss is one of the largest trusses ever constructed from aluminium. The design of this truss not only reflects the Prolyte philosophy of making user-friendly products, it also underscores the unrivalled technological knowledge and experience Prolyte has gained over the years.

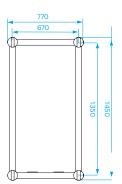
#### **EXPERIENCE TRANSLATED INTO DESIGN**

Mammoth Truss provides massive strength for a range of application possibilities within a large construction, such as a roof system or mother grid. With its superior loading capacity the M145RV Mammoth Truss is five times stronger than the B100 Series truss. For example, on a stretch of 30 metres you still can apply a point load of 6400kg. Other truss types can be stored inside the M145RV trusses. The overall measurements are thus designed that container and truck space are efficiently used.

#### M145RV















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- Loading figures are only valid for single spans with supports at both ends.
- All static systems, other than single spans, need an individual structural calculation. Please contact a structural engineer or Prolyte for assistance.
- Loading figures are calculated according to and in full compliance with European standards (Eurocode).
- The self-weight of the trusses is already taken into account.
- Loading figures are only valid for the cross sectional orientation of the truss as shown by the icon in the loading table.
- The interaction between bending moment and shear force at the connection point is already taken into account.
- Truss spans can be assembled from different truss lengths.
- Read the manual before assembling, using and loading the truss.

| Technical Specificati | ons - M145RV              |
|-----------------------|---------------------------|
| Types                 | Rectangular (RV)          |
| Alloy                 | EN AW 6082 T6             |
| Main Chords           | 100 x 8 mm                |
| Diagonal Members      | 60 x 60 x 3,5 / 50 x 4 mm |
| Coupling System       | Pin / Fork connection     |

Structural data can be found at www.prolyte.com

| M145RV - Stan | dard available Length | s and Codes |
|---------------|-----------------------|-------------|
| Metres        | Feet                  | Code        |
| 2,40          | 7.87                  | M145RV-L240 |
| 3,00          | 9.84                  | M145RV-L300 |
| 4,80          | 15,75                 | M145RV-L480 |
| 6,00          | 19.69                 | M145RV-L600 |

Other Lengths on request

#### **CIRCULAR TRUSS**



Photo: AED Rent, Belgium.

In addition to straight lengths, Prolyte manufactures circular trusses, curved trusses and arcs. These trusses are manufactured with a high degree of accuracy, ensuring a perfect fit without distortion. Semi-automated welding jigs are used for production

to ensure that all parts are identical. This guarantees that every segment of a circle can be mounted at any position or be replaced by a new part without affecting the integrity or overall shape of the circle.

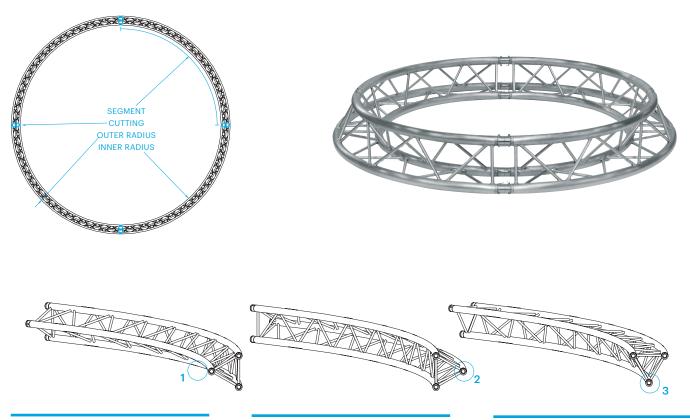






Photo: PRO 1, Project: Wella fasion show.

Circular or curved trusses are manufactured in different diameters or degrees. When ordering a complete circular truss, the number 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 meters. Prolyte recommends segment lengths of between 3/4 meters, and an even number of segments. For further details in this regard, please refer to the Prolyte BlackBook.



| X30  | D Circ | ular tru | ss - All | owable    | e Loadin | g    |          |          |        |      |         |          |        |      |          |          |        |      |          |         |        |
|------|--------|----------|----------|-----------|----------|------|----------|----------|--------|------|---------|----------|--------|------|----------|----------|--------|------|----------|---------|--------|
|      |        | 3        | Suspens  | sion Poir | nts      |      | 4 Suspen | sion Poi | nts    | 6    | Suspens | ion Poin | ts     |      | 8 Suspen | sion Poi | nts    |      | 10 Suspe | nsion P | oints  |
| Dian | neter  | U        | )L       | C         | PL       | U    | DL       | (        | CPL    | U    | DL      | С        | PL     | UI   | DL       | ,        | CPL    | ι    | JDL      |         | CPL    |
| m    |        | kg/m     | lbs/ft   |           | lbs      | kg/m | lbs/ft   | kg       | lbs    | kg/m | lbs/ft  |          | lbs    | kg/m | lbs/ft   | kg       | lbs    | kg/m | lbs/ft   | kg      | lbs    |
| 4    | 13.1   | 115      | 77,7     | 318       | 701,8    | 205  | 138,0    | 457      | 1008,4 | 410  | 275,9   | 686      | 1515,4 | 622  | 418,3    | 840      | 1854,4 | 830  | 558,7    | 939     | 2072,0 |
| 6    | 19.7   | 58       | 39,3     | 232       | 512,1    | 110  | 74,3     | 349      | 769,4  | 239  | 161,1   | 533      | 1177,2 | 380  | 255,6    | 714      | 1575,7 | 521  | 350,5    | 848     | 1872,9 |
| 8    | 26.2   | 34       | 22,8     | 182       | 402,6    | 62   | 41,7     | 260      | 573,1  | 142  | 95,7    | 397      | 876,9  | 255  | 171,4    | 533      | 1177,2 | 369  | 248,2    | 669     | 1476,2 |
| 10   | 32.8   | 21       | 14,0     | 146       | 321,8    | 39   | 26,1     | 203      | 449,1  | 90   | 60,7    | 315      | 695,3  | 162  | 109,1    | 425      | 937,1  | 255  | 171,4    | 533     | 1177,2 |
| 12   | 39.4   | 14       | 9,3      | 116       | 255,5    | 26   | 17,7     | 165      | 364,8  | 62   | 41,7    | 260      | 573,1  | 112  | 75,3     | 352      | 776,2  | 176  | 118,5    | 443     | 977,2  |
| 14   | 45.9   | 10       | 6,4      | 93        | 206,2    | 19   | 12,6     | 137      | 303,1  | 45   | 30,2    | 220      | 484,8  | 82   | 54,9     | 299      | 660,5  | 129  | 86,7     | 378     | 833,8  |

| НЗ  | OD Cir | cular tr | uss - Al | llowab   | le Load | ing  |           |           |        |      |         |          |        |      |         |           |        |      |          |         |        |
|-----|--------|----------|----------|----------|---------|------|-----------|-----------|--------|------|---------|----------|--------|------|---------|-----------|--------|------|----------|---------|--------|
|     |        | 3        | Suspensi | ion Poin | ts      | 4    | 1 Suspens | ion Point | ts     | 6    | Suspens | ion Poin | ts     | 8    | Suspens | ion Point | S      | 10   | ) Suspen | sion Po | ints   |
| Dia | meter  | UI       | )L       | С        | PL      | UE   | )L        | C         | PL     | UI   | DL      | C        | CPL    | UE   | L       | C         | PL     | ι    | IDL      | C       | CPL    |
| m   | ft     | kg/m     | lbs/ft   |          | lbs     | kg/m | lbs/ft    |           | lbs    | kg/m | lbs/ft  | kg       | lbs    | kg/m | lbs/ft  | kg        | lbs    | kg/m | lbs/ft   |         | lbs    |
| 4   | 13.1   | 115      | 77,1     | 317      | 699,8   | 204  | 137,3     | 456       | 1006,3 | 409  | 275,3   | 686      | 1513,3 | 621  | 417,7   | 839       | 1852,5 | 829  | 558,1    | 938     | 2070,3 |
| 6   | 19.7   | 58       | 38,7     | 231      | 510,0   | 109  | 73,7      | 347       | 767,0  | 238  | 160,5   | 565      | 1246,8 | 379  | 254,9   | 731       | 1612,9 | 520  | 349,9    | 847     | 1870,6 |
| 8   | 26.2   | 34       | 22,9     | 181      | 400,3   | 68   | 45,9      | 280       | 618,8  | 159  | 106,7   | 480      | 1059,3 | 262  | 176,2   | 647       | 1427,6 | 368  | 247,6    | 773     | 1705,6 |
| 10  | 32.8   | 22       | 14,7     | 149      | 328,9   | 46   | 31,1      | 235       | 518,0  | 114  | 76,4    | 417      | 920,3  | 194  | 130,5   | 580       | 1280,0 | 278  | 187,4    | 710     | 1567,0 |
| 12  | 39.4   | 15       | 10,0     | 126      | 278,7   | 33   | 22,3      | 202       | 444,9  | 85   | 57,4    | 357      | 789,0  | 150  | 101,2   | 484       | 1069,0 | 220  | 148,1    | 610     | 1346,1 |
| 14  | 45.9   | 10       | 7,1      | 109      | 241,5   | 25   | 16,6      | 176       | 389,6  | 62   | 41,6    | 302      | 667,3  | 112  | 75,6    | 412       | 909,5  | 177  | 119,4    | 520     | 1148,4 |

| X30  | V Circ | cular tru | ıss - All | owab    | le Load | ding |          |          |        |      |           |           |        |      |          |           |        |      |         |          |        |
|------|--------|-----------|-----------|---------|---------|------|----------|----------|--------|------|-----------|-----------|--------|------|----------|-----------|--------|------|---------|----------|--------|
|      |        | 3 5       | Suspensi  | on Poir | nts     | 4    | Suspensi | on Point | S      | 6    | Suspensio | on Points | 3      |      | 8 Suspen | sion Poin | ts     | 10   | Suspens | ion Poin | nts    |
| Dian | neter  | UI        | DL        | C       | PL      | UD   | L        | C        | PL     | UE   | )L        | С         | PL     | UI   | )L       | С         | PL     | UI   | DL      | C        | CPL    |
| m    | ft     | kg/m      | lbs/ft    | kg      | lbs     | kg/m | lbs/ft   |          | lbs    | kg/m | lbs/ft    | kg        | lbs    | kg/m | lbs/ft   |           | lbs    | kg/m | lbs/ft  |          | lbs    |
| 4    | 13.1   | 189       | 127,0     | 576     | 1272,4  | 306  | 205,9    | 759      | 1676,0 | 548  | 369,1     | 1003      | 2213,1 | 787  | 529,5    | 1135      | 2505,1 | 1020 | 686,4   | 1210     | 2670,7 |
| 6    | 19.7   | 103       | 69,1      | 445     | 982,4   | 176  | 118,7    | 619      | 1366,2 | 337  | 227,0     | 882       | 1947,0 | 499  | 335,8    | 1043      | 2302,5 | 657  | 442,4   | 1141     | 2518,4 |
| 8    | 26.2   | 64        | 43,4      | 362     | 798,5   | 116  | 78,2     | 522      | 1151,7 | 235  | 157,8     | 787       | 1737,1 | 357  | 240,0    | 965       | 2129,6 | 477  | 321,1   | 1079     | 2382,1 |
| 10   | 32.8   | 44        | 29,6      | 304     | 671,4   | 82   | 55,5     | 450      | 994,2  | 175  | 117,5     | 710       | 1567,2 | 272  | 183,3    | 897       | 1980,3 | 370  | 248,8   | 1024     | 2259,5 |
| 12   | 39.4   | 32        | 21,2      | 262     | 578,3   | 62   | 41,4     | 392      | 865,6  | 136  | 91,5      | 606       | 1338,8 | 217  | 146,1    | 817       | 1804,0 | 299  | 200,9   | 973      | 2148,5 |
| 14   | 45.9   | 23        | 15,8      | 230     | 507,2   | 45   | 30,2     | 329      | 726,9  | 105  | 71,0      | 515       | 1137,5 | 178  | 119,9    | 697       | 1538,7 | 248  | 167,0   | 877      | 1936,2 |

| H30 | V Circu | lar trus | s - Allo | wable L    | oading |      |          |           |        |      |         |          |        |      |           |           |        |      |          |           |        |
|-----|---------|----------|----------|------------|--------|------|----------|-----------|--------|------|---------|----------|--------|------|-----------|-----------|--------|------|----------|-----------|--------|
|     |         | 3        | Suspens  | sion Point | ts     |      | 4 Suspen | sion Poir | nts    | 6    | Suspens | sion Poi | nts    | ;    | 8 Suspens | sion Poin | its    |      | 10 Suspe | nsion Poi | nts    |
| Dia | meter   | U        | DL       | CI         | PL     | U    | DL       | C         | PL     | U    | DL      | C        | CPL    | UI   | DL        | C         | PL     | ι    | JDL      | C         | PL     |
| m   |         | kg/m     | lbs/ft   |            | lbs    | kg/m | lbs/ft   |           | lbs    | kg/m | lbs/ft  | kg       | lbs    | kg/m | lbs/ft    |           | lbs    | kg/m | lbs/ft   | kg        | lbs    |
| 4   | 13.1    | 188      | 126,3    | 575        | 1268,3 | 305  | 205,2    | 757       | 1671,9 | 547  | 368,4   | 1001     | 2209,5 | 786  | 528,8     | 1133      | 2502,1 | 1019 | 685,7    | 1209      | 2668,1 |
| 6   | 19.7    | 102      | 68,4     | 443        | 977,6  | 175  | 118,0    | 617       | 1361,3 | 336  | 226,3   | 880      | 1942,3 | 498  | 335,1     | 1041      | 2298,3 | 656  | 441,7    | 1139      | 2514,8 |
| 8   | 26.2    | 63       | 42,7     | 359        | 793,3  | 115  | 77,5     | 519       | 1146,1 | 233  | 157,1   | 784      | 1731,5 | 356  | 239,3     | 962       | 2124,4 | 476  | 320,4    | 1077      | 2377,5 |
| 10  | 32.8    | 43       | 28,8     | 302        | 665,9  | 81   | 54,8     | 448       | 988,2  | 174  | 116,8   | 707      | 1560,9 | 271  | 182,6     | 894       | 1974,3 | 369  | 248,0    | 1021      | 2254,0 |
| 12  | 39.4    | 30       | 20,5     | 259        | 572,6  | 60   | 40,7     | 393       | 867,4  | 135  | 90,8    | 643      | 1419,9 | 216  | 145,4     | 835       | 1843,3 | 297  | 200,2    | 970       | 2142,3 |
| 14  | 45.9    | 22       | 15,1     | 227        | 501,3  | 46   | 31,3     | 350       | 772,0  | 108  | 72,8    | 590      | 1301,6 | 177  | 119,2     | 783       | 1728,0 | 247  | 166,3    | 924       | 2040,7 |

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 contact our engineering department.

- The absence of diagonal members 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 Eurocode; to comply with BS 7905-2 / ANSI E1.2-2006 / CWA 15902-2, the loading data must be multiplied by 0.85.
- Truss orientation apex-up/down. Truss 100% horizontal.

## H40 / \$36V / \$52\$V CIRCULAR TRUSS





| H4  | OV Circ | ular tr | uss - Al | lowable   | e Loadir | ng   |          |         |        |      |          |            |        |      |           |          |        |      |          |            |        |
|-----|---------|---------|----------|-----------|----------|------|----------|---------|--------|------|----------|------------|--------|------|-----------|----------|--------|------|----------|------------|--------|
|     |         | (       | 3 Suspen | sion Poin | ts       | 4 :  | Suspensi | on Poir | nts    |      | 6 Suspen | sion Point | ts     | 8    | 3 Suspens | ion Poin | ts     |      | 10 Suspe | ension Poi | nts    |
| Dia | meter   | U       | DL       | C         | PL       | UI   | OL       | (       | CPL    | U    | DL       | CI         | PL     | U    | )L        | С        | PL     | U    | DL       | (          | CPL    |
| m   |         | kg/m    | lbs/ft   |           | lbs      | kg/m | lbs/ft   | kg      | lbs    | kg/m | lbs/ft   | kg         | lbs    | kg/m | lbs/ft    |          | lbs    | kg/m | lbs/ft   |            | lbs    |
| 4   | 13.1    | 277     | 187,2    | 892       | 1969,1   | 430  | 289,6    | 1122    | 2476,1 | 739  | 497,6    | 1398       | 3085,7 | 1041 | 700,4     | 1535     | 3389,5 | 1336 | 899,1    | 1610       | 3554,2 |
| 6   | 19.7    | 156     | 105,4    | 712       | 1571,7   | 256  | 172,1    | 946     | 2089,4 | 464  | 312,0    | 1264       | 2791,3 | 668  | 449,8     | 1440     | 3179,5 | 869  | 584,6    | 1541       | 3402,0 |
| 8   | 26.2    | 101     | 68,2     | 591       | 1304,6   | 173  | 116,1    | 818     | 1805,0 | 328  | 220,7    | 1154       | 2546,9 | 483  | 325,3     | 1356     | 2993,2 | 636  | 427,8    | 1478       | 3261,8 |
| 10  | 32.8    | 70      | 47,3     | 505       | 1114,8   | 125  | 84,2     | 719     | 1587,0 | 248  | 166,9    | 1060       | 2340,7 | 373  | 251,2     | 1281     | 2826,9 | 496  | 334,1    | 1419       | 3132,2 |
| 12  | 39.4    | 51      | 34,5     | 440       | 971,3    | 95   | 63,9     | 641     | 1414,7 | 196  | 131,8    | 981        | 2164,5 | 301  | 202,2     | 1213     | 2677,5 | 404  | 271,9    | 1365       | 3012,2 |
| 14  | 45.9    | 39      | 26,4     | 389       | 858,7    | 75   | 50,2     | 578     | 1275,0 | 159  | 107,2    | 911        | 2012,1 | 249  | 167,6     | 1152     | 2542,5 | 338  | 227,6    | 1314       | 2900,6 |

| S36  | S36V Circular truss - Allowable Loading |      |        |      |                     |      |        |                     |        |      |                     |      |        |                      |        |      |        |      |        |      |        |
|------|---|------|--------|------|---------------------|------|--------|---------------------|--------|------|---------------------|------|--------|----------------------|--------|------|--------|------|--------|------|--------|
|      | 3 Suspension Points                     |      | nts    |      | 4 Suspension Points |      |        | 6 Suspension Points |        |      | 8 Suspension Points |      |        | 10 Suspension Points |        |      |        |      |        |      |        |
| Diar | meter                                   | UI   | DL     | C    | PL                  | U    | DL     | С                   | PL     | U    | DL                  | C    | PL     | UI                   | DL     | С    | PL     | U    | DL     | С    | PL     |
| m    |   | kg/m | lbs/ft | kg   | lbs                 | kg/m | lbs/ft |                     | lbs    | kg/m | lbs/ft              | kg   | lbs    | kg/m                 | lbs/ft |      | lbs    | kg/m | lbs/ft |      | lbs    |
| 4    | 13.1                                    | 485  | 326,7  | 1535 | 3388,7              | 766  | 515,6  | 1963                | 4333,2 | 1335 | 898,3               | 2495 | 5508,5 | 1891                 | 1272,4 | 2769 | 6111,7 | 2435 | 1638,5 | 2919 | 6443,6 |
| 6    | 19.7                                    | 270  | 182,0  | 1211 | 2673,4              | 451  | 303,3  | 1636                | 3612,3 | 832  | 559,8               | 2236 | 4936,2 | 1209                 | 813,8  | 2580 | 5694,5 | 1579 | 1062,4 | 2780 | 6137,6 |
| 8    | 26.2                                    | 173  | 116,4  | 998  | 2203,1              | 302  | 202,9  | 1401                | 3093,3 | 585  | 393,7               | 2025 | 4469,3 | 871                  | 586,4  | 2414 | 5329,2 | 1152 | 775,4  | 2654 | 5858,5 |
| 10   | 32.8                                    | 117  | 78,6   | 816  | 1800,9              | 214  | 144,3  | 1123                | 2478,0 | 440  | 296,2               | 1721 | 3799,3 | 670                  | 451,1  | 2268 | 5006,7 | 897  | 603,9  | 2538 | 5602,8 |
| 12   | 39.4                                    | 79   | 52,9   | 658  | 1452,5              | 146  | 98,4   | 919                 | 2028,8 | 340  | 228,7               | 1423 | 3142,0 | 538                  | 362,0  | 1919 | 4235,3 | 729  | 490,3  | 2410 | 5320,8 |
| 14   | 45.9                                    | 55   | 37,3   | 542  | 1196,1              | 105  | 70,8   | 771                 | 1702,3 | 247  | 166,5               | 1209 | 2668,7 | 444                  | 299,0  | 1636 | 3612,0 | 609  | 409,5  | 2059 | 4546,0 |

| S52               | 52SV Circular truss - Allowable Loading |           |        |      |                     |      |        |                     |        |      |                     |      |        |                      |        |      |        |      |        |      |        |
|-------------------|---|-----------|--------|------|---------------------|------|--------|---------------------|--------|------|---------------------|------|--------|----------------------|--------|------|--------|------|--------|------|--------|
| 3 Suspension Poir |   | sion Poin | ts     |      | 4 Suspension Points |      |        | 6 Suspension Points |        |      | 8 Suspension Points |      |        | 10 Suspension Points |        |      |        |      |        |      |        |
| Diar              | neter                                   | U         | DL     | С    | PL                  | UI   | DL     | С                   | PL     | U    | DL                  | С    | PL     | U                    | DL     | С    | PL     | ا    | UDL    | CI   | PL     |
| m                 | ft                                      | kg/m      | lbs/ft |      | lbs                 | kg/m | lbs/ft |                     | lbs    | kg/m | lbs/ft              | kg   | lbs    | kg/m                 | lbs/ft | kg   | lbs    | kg/m | lbs/ft |      | lbs    |
| 4                 | 13.1                                    | 688       | 462,7  | 2325 | 5131,5              | 1035 | 696,5  | 2806                | 6195,3 | 1721 | 1158,3              | 3336 | 7365,1 | 2390                 | 1608,2 | 3583 | 7909,6 | 3047 | 2050,2 | 3712 | 8195,0 |
| 6                 | 19.7                                    | 401       | 269,5  | 1919 | 4236,5              | 631  | 424,4  | 2442                | 5391,8 | 1095 | 737,1               | 3086 | 6811,9 | 1549                 | 1042,5 | 3413 | 7534,1 | 1993 | 1341,5 | 3592 | 7929,8 |
| 8                 | 26.2                                    | 265       | 178,7  | 1631 | 3601,3              | 435  | 292,5  | 2160                | 4768,2 | 785  | 528,5               | 2869 | 6333,6 | 1130                 | 760,7  | 3258 | 7191,3 | 1468 | 987,7  | 3479 | 7680,5 |
| 10                | 32.8                                    | 187       | 125,6  | 1303 | 2876,0              | 321  | 216,1  | 1780                | 3929,0 | 601  | 404,8               | 2680 | 5915,8 | 880                  | 592,3  | 3115 | 6877,1 | 1153 | 775,8  | 3373 | 7445,6 |
| 12                | 39.4                                    | 126       | 85,1   | 1059 | 2337,3              | 233  | 156,7  | 1463                | 3229,7 | 480  | 323,3               | 2250 | 4965,9 | 714                  | 480,7  | 2984 | 6588,0 | 944  | 635,0  | 3272 | 7223,9 |
| 14                | 45.9                                    | 90        | 60,6   | 880  | 1943,3              | 168  | 113,2  | 1234                | 2723,2 | 392  | 263,6               | 1915 | 4226,4 | 596                  | 401,4  | 2583 | 5701,3 | 794  | 534,6  | 3178 | 7014,4 |

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 members 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 Eurocode; to comply with BS 7905-2 / ANSI E1.2-2006 / CWA 15902-2, the loading data must be multiplied by 0.85.
- Truss orientation apex-up/down. Truss 100% horizontal.

### **CANTILEVER LOAD**



Photo by Christi Mitrea: Standard vision, Linkin Park concert Bucharest

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 compiled the loading tables for cantilever loads for all our truss types. By using the

tables in the following section, you will be able to apply cantilever loads safely and securely. Please be sure to read and understand these loading tables before applying cantilever loads in practice.





| E20D - Cantilever load |        |          |  |  |  |  |  |  |
|------------------------|--------|----------|--|--|--|--|--|--|
| l <sub>k</sub> (m)     | P (kg) | q (kg/m) |  |  |  |  |  |  |
| 0,5                    | 162,3  | 323,9    |  |  |  |  |  |  |
| 1,0                    | 93,3   | 161,2    |  |  |  |  |  |  |
| 1,5                    | 64,9   | 78,2     |  |  |  |  |  |  |
| 2,0                    | 49,4   | 45,6     |  |  |  |  |  |  |
| 2,5                    | 39,5   | 29,6     |  |  |  |  |  |  |
| 3,0                    | 32,6   | 20,6     |  |  |  |  |  |  |

| E20V - Cantilever load |        |          |  |  |  |  |  |  |
|------------------------|--------|----------|--|--|--|--|--|--|
| l <sub>k</sub> (m)     | P (kg) | q (kg/m) |  |  |  |  |  |  |
| 0,5                    | 187,1  | 374,1    |  |  |  |  |  |  |
| 1,0                    | 187,1  | 186,1    |  |  |  |  |  |  |
| 1,5                    | 140,0  | 123,4    |  |  |  |  |  |  |
| 2,0                    | 108,8  | 92,1     |  |  |  |  |  |  |
| 2,5                    | 88,6   | 63,8     |  |  |  |  |  |  |
| 3,0                    | 74,3   | 45,3     |  |  |  |  |  |  |

#### X30

| X30D - Cantilever load |        |          |  |  |  |  |  |  |
|------------------------|--------|----------|--|--|--|--|--|--|
| l <sub>k</sub> (m)     | P (kg) | q (kg/m) |  |  |  |  |  |  |
| 0,5                    | 633,5  | 1697,9   |  |  |  |  |  |  |
| 1,0                    | 387,1  | 631,2    |  |  |  |  |  |  |
| 1,5                    | 277,6  | 318,2    |  |  |  |  |  |  |
| 2,0                    | 215,6  | 191,2    |  |  |  |  |  |  |
| 2,5                    | 175,4  | 127,0    |  |  |  |  |  |  |
| 3,0                    | 147,2  | 90,1     |  |  |  |  |  |  |

| X30V - Cantilever load |        |          |  |  |  |  |  |  |  |
|------------------------|--------|----------|--|--|--|--|--|--|--|
| l <sub>k</sub> (m)     | P (kg) | q (kg/m) |  |  |  |  |  |  |  |
| 0,5                    | 979,7  | 1959,4   |  |  |  |  |  |  |  |
| 1,0                    | 767,8  | 977,4    |  |  |  |  |  |  |  |
| 1,5                    | 574,5  | 611,6    |  |  |  |  |  |  |  |
| 2,0                    | 457,9  | 380,9    |  |  |  |  |  |  |  |
| 2,5                    | 379,6  | 259,9    |  |  |  |  |  |  |  |
| 3,0                    | 323,4  | 188,4    |  |  |  |  |  |  |  |
| 3,5                    | 280,8  | 142,5    |  |  |  |  |  |  |  |

#### H30

| H30D - Cantilever load |        |          |  |  |  |  |  |  |
|------------------------|--------|----------|--|--|--|--|--|--|
| l <sub>k</sub> (m)     | P (kg) | q (kg/m) |  |  |  |  |  |  |
| 0,5                    | 837,8  | 1696,8   |  |  |  |  |  |  |
| 1,0                    | 520,0  | 834,8    |  |  |  |  |  |  |
| 1,5                    | 375,6  | 425,0    |  |  |  |  |  |  |
| 2,0                    | 292,9  | 256,9    |  |  |  |  |  |  |
| 2,5                    | 239,0  | 171,4    |  |  |  |  |  |  |
| 3,0                    | 201,0  | 122,0    |  |  |  |  |  |  |
|                        |        |          |  |  |  |  |  |  |

| H30V - Cantilever load |        |          |  |  |  |  |  |  |
|------------------------|--------|----------|--|--|--|--|--|--|
| l <sub>k</sub> (m)     | P (kg) | q (kg/m) |  |  |  |  |  |  |
| 0,5                    | 979,2  | 1958,3   |  |  |  |  |  |  |
| 1,0                    | 979,2  | 976,3    |  |  |  |  |  |  |
| 1,5                    | 769,9  | 649,0    |  |  |  |  |  |  |
| 2,0                    | 617,2  | 485,3    |  |  |  |  |  |  |
| 2,5                    | 513,9  | 347,2    |  |  |  |  |  |  |
| 3,0                    | 439,2  | 252,8    |  |  |  |  |  |  |
| 3,5                    | 382,5  | 191,9    |  |  |  |  |  |  |

#### H40

| H4                 | H40D - Cantilever load |          |  |  |  |  |  |  |  |
|--------------------|------------------------|----------|--|--|--|--|--|--|--|
| I <sub>k</sub> (m) | P (kg)                 | q (kg/m) |  |  |  |  |  |  |  |
| 0,5                | 1020,9                 | 2182,2   |  |  |  |  |  |  |  |
| 1,0                | 670,0                  | 1018,1   |  |  |  |  |  |  |  |
| 1,5                | 497,4                  | 536,7    |  |  |  |  |  |  |  |
| 2,0                | 394,4                  | 332,0    |  |  |  |  |  |  |  |
| 2,5                | 325,7                  | 225,4    |  |  |  |  |  |  |  |
| 3,0                | 276,6                  | 162,7    |  |  |  |  |  |  |  |
| 3,5                | 239,6                  | 122,6    |  |  |  |  |  |  |  |
| 4,0                | 210,6                  | 95,4     |  |  |  |  |  |  |  |
|                    |                        |          |  |  |  |  |  |  |  |

| H4                 | H40V - Cantilever load |          |  |  |  |  |  |  |  |
|--------------------|------------------------|----------|--|--|--|--|--|--|--|
| l <sub>k</sub> (m) | P (kg)                 | q (kg/m) |  |  |  |  |  |  |  |
| 0,5                | 1259,6                 | 2519,1   |  |  |  |  |  |  |  |
| 1,0                | 1256,5                 | 1256,5   |  |  |  |  |  |  |  |
| 1,5                | 980,6                  | 835,6    |  |  |  |  |  |  |  |
| 2,0                | 802,7                  | 624,3    |  |  |  |  |  |  |  |
| 2,5                | 678,2                  | 436,7    |  |  |  |  |  |  |  |
| 3,0                | 586,1                  | 322,8    |  |  |  |  |  |  |  |
| 3,5                | 515,0                  | 248,1    |  |  |  |  |  |  |  |
| 4,0                | 458,4                  | 196,5    |  |  |  |  |  |  |  |

| H4                 | H40R - Cantilever load |          |  |  |  |  |  |  |  |
|--------------------|------------------------|----------|--|--|--|--|--|--|--|
| l <sub>k</sub> (m) | P (kg)                 | q (kg/m) |  |  |  |  |  |  |  |
| 0,5                | 1259,5                 | 2518,9   |  |  |  |  |  |  |  |
| 1,0                | 1256,4                 | 1256,3   |  |  |  |  |  |  |  |
| 1,5                | 980,4                  | 835,4    |  |  |  |  |  |  |  |
| 2,0                | 802,5                  | 624,1    |  |  |  |  |  |  |  |
| 2,5                | 677,9                  | 436,5    |  |  |  |  |  |  |  |
| 3,0                | 585,7                  | 322,6    |  |  |  |  |  |  |  |
| 3,5                | 514,6                  | 247,9    |  |  |  |  |  |  |  |
| 4,0                | 458,0                  | 196,3    |  |  |  |  |  |  |  |

- Loading figures are only valid for cantilever spans smaller than the resp. field spans
- $\bullet$  A separate calculation is required in the following cases:
- · When dynamic loads or wind loads are involved
- $\cdot$  When more than two supporting points are applied
- $\cdot$  When load is applied in the resp. field spans
- The self-weight of the trusses has been taken into account

## CANTILEVER LOAD

#### **S36**

| S3                 | S36R - Cantilever load |          |  |  |  |  |  |  |  |
|--------------------|------------------------|----------|--|--|--|--|--|--|--|
| l <sub>k</sub> (m) | P (kg)                 | q (kg/m) |  |  |  |  |  |  |  |
| 0,5                | 1678,2                 | 3968,1   |  |  |  |  |  |  |  |
| 1,0                | 1278,6                 | 1672,8   |  |  |  |  |  |  |  |
| 2,0                | 861,1                  | 633,5    |  |  |  |  |  |  |  |
| 2,5                | 737,8                  | 450,7    |  |  |  |  |  |  |  |
| 3,0                | 643,9                  | 337,4    |  |  |  |  |  |  |  |
| 3,5                | 569,8                  | 262,0    |  |  |  |  |  |  |  |
| 4,0                | 509,7                  | 209,0    |  |  |  |  |  |  |  |
| 4,5                | 459,8                  | 170,4    |  |  |  |  |  |  |  |

|                        | 01 0 11 1 |          |  |  |  |  |  |  |  |  |  |
|------------------------|-----------|----------|--|--|--|--|--|--|--|--|--|
| S36V - Cantilever load |           |          |  |  |  |  |  |  |  |  |  |
| l <sub>k</sub> (m)     | P (kg)    | q (kg/m) |  |  |  |  |  |  |  |  |  |
| 0,5                    | 1677,7    | 3966,8   |  |  |  |  |  |  |  |  |  |
| 1,0                    | 1277,6    | 1671,4   |  |  |  |  |  |  |  |  |  |
| 2,0                    | 859,3     | 632,1    |  |  |  |  |  |  |  |  |  |
| 2,5                    | 735,6     | 449,3    |  |  |  |  |  |  |  |  |  |
| 3,0                    | 641,3     | 336,1    |  |  |  |  |  |  |  |  |  |
| 3,5                    | 566,8     | 260,6    |  |  |  |  |  |  |  |  |  |
| 4,0                    | 506,4     | 207,7    |  |  |  |  |  |  |  |  |  |
| 4,5                    | 456,2     | 169,0    |  |  |  |  |  |  |  |  |  |

#### B100RV

| B100RV - Cantilever load |        |          |  |  |  |  |  |  |  |  |
|--------------------------|--------|----------|--|--|--|--|--|--|--|--|
| l <sub>k</sub> (m)       | P (kg) | q (kg/m) |  |  |  |  |  |  |  |  |
| 1,0                      | 3713,2 | 4230,4   |  |  |  |  |  |  |  |  |
| 1,5                      | 3298,0 | 2628,2   |  |  |  |  |  |  |  |  |
| 2,0                      | 2963,3 | 1844,0   |  |  |  |  |  |  |  |  |
| 3,0                      | 2456,0 | 1086,3   |  |  |  |  |  |  |  |  |
| 4,0                      | 2088,7 | 727,4    |  |  |  |  |  |  |  |  |
| 5,0                      | 1809,4 | 523,7    |  |  |  |  |  |  |  |  |
| 6,0                      | 1589,1 | 395,3    |  |  |  |  |  |  |  |  |
| 7,0                      | 1410,2 | 308,5    |  |  |  |  |  |  |  |  |

#### **S52**

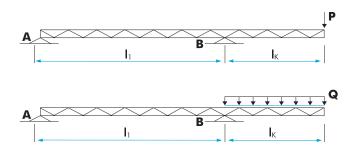
| S5                 | S52F - Cantilever load |          |  |  |  |  |  |  |  |  |  |
|--------------------|------------------------|----------|--|--|--|--|--|--|--|--|--|
| l <sub>k</sub> (m) | P (kg)                 | q (kg/m) |  |  |  |  |  |  |  |  |  |
| 1,0                | 1249,6                 | 1595,6   |  |  |  |  |  |  |  |  |  |
| 2,0                | 833,1                  | 617,5    |  |  |  |  |  |  |  |  |  |
| 3,0                | 618,3                  | 326,3    |  |  |  |  |  |  |  |  |  |
| 4,0                | 485,8                  | 200,5    |  |  |  |  |  |  |  |  |  |
| 4,5                | 436,7                  | 162,7    |  |  |  |  |  |  |  |  |  |
| 5,0                | 395,1                  | 134,3    |  |  |  |  |  |  |  |  |  |
| 5,5                | 359,4                  | 112,4    |  |  |  |  |  |  |  |  |  |
| 6,0                | 328,4                  | 95,0     |  |  |  |  |  |  |  |  |  |
|                    |                        |          |  |  |  |  |  |  |  |  |  |

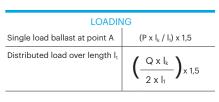
| S52SV - Cantilever load |        |          |  |  |  |  |  |  |  |  |
|-------------------------|--------|----------|--|--|--|--|--|--|--|--|
| l <sub>k</sub> (m)      | P (kg) | q (kg/m) |  |  |  |  |  |  |  |  |
| 1,0                     | 1540,9 | 1881,2   |  |  |  |  |  |  |  |  |
| 2,0                     | 1119,8 | 762,5    |  |  |  |  |  |  |  |  |
| 3,0                     | 872,6  | 424,6    |  |  |  |  |  |  |  |  |
| 4,0                     | 708,9  | 271,4    |  |  |  |  |  |  |  |  |
| 4,5                     | 645,8  | 224,0    |  |  |  |  |  |  |  |  |
| 5,0                     | 591,6  | 187,7    |  |  |  |  |  |  |  |  |
| 5,5                     | 544,3  | 159,3    |  |  |  |  |  |  |  |  |
| 6,0                     | 502,7  | 136,6    |  |  |  |  |  |  |  |  |

| S52V - Cantilever load |        |          |  |  |  |  |  |  |  |  |
|------------------------|--------|----------|--|--|--|--|--|--|--|--|
| l <sub>k</sub> (m)     | P (kg) | q (kg/m) |  |  |  |  |  |  |  |  |
| 1,0                    | 1514,3 | 1861,3   |  |  |  |  |  |  |  |  |
| 2,0                    | 1091,4 | 749,2    |  |  |  |  |  |  |  |  |
| 3,0                    | 846,3  | 415,1    |  |  |  |  |  |  |  |  |
| 4,0                    | 685,0  | 264,3    |  |  |  |  |  |  |  |  |
| 4,5                    | 623,2  | 217,7    |  |  |  |  |  |  |  |  |
| 5,0                    | 570,0  | 182,2    |  |  |  |  |  |  |  |  |
| 5,5                    | 523,8  | 154,3    |  |  |  |  |  |  |  |  |
| 6,0                    | 483,2  | 132,1    |  |  |  |  |  |  |  |  |

#### **S66**

| S66R,              | S66R / S66V- Cantilever load |          |  |  |  |  |  |  |  |  |  |
|--------------------|------------------------------|----------|--|--|--|--|--|--|--|--|--|
| l <sub>k</sub> (m) | P (kg)                       | q (kg/m) |  |  |  |  |  |  |  |  |  |
| 1,0                | 1679,5                       | 1980,6   |  |  |  |  |  |  |  |  |  |
| 2,0                | 1274,4                       | 830,9    |  |  |  |  |  |  |  |  |  |
| 3,0                | 1019,6                       | 474,4    |  |  |  |  |  |  |  |  |  |
| 4,0                | 843,4                        | 309,2    |  |  |  |  |  |  |  |  |  |
| 4,5                | 773,9                        | 257,2    |  |  |  |  |  |  |  |  |  |
| 5,0                | 713,4                        | 217,2    |  |  |  |  |  |  |  |  |  |
| 5,5                | 660,2                        | 185,6    |  |  |  |  |  |  |  |  |  |
| 6,0                | 613,0                        | 160,1    |  |  |  |  |  |  |  |  |  |





P = kg or N

I = 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.

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

#### **PROLYTE CORNERS**



Photo: RSL, The Netherlands.

#### Corner

All Prolyte truss 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 structure or grid configurations.

#### 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 number of specially designed corners, such as the pyramid corner and swivel corner. For more information on these corners, or on custom-made corners, please contact Prolyte's Internal Sales department.

#### **Box corners**

Invented by Prolyte, the Box corner system is revolutionary. 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

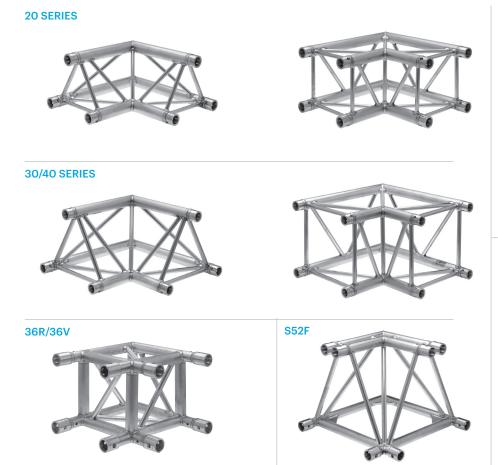
be converted into a 2-to-6-way corner as desired simply by mounting the female or male receivers to the corner. The flexibility and fixed dimensions of the Box corner make it a costefficient investment. Box corners are capable of taking 100% of the applied load in a vertical or horizontal direction. This makes the Box corner a fully-fledged construction element, unlike traditional types of corners.

#### **Book corners**

The Prolyte book corner enables configuration with angle flexibility. Angles ranging from 0 to 180 degrees can be made using the same corner. The attachments are bolted to the corner, using male or female receivers. The required angle is set with the additional attachment set. The book corner is not designed as a loadbearing element and therefore cannot be part of a structural component. (The book corner must be supported on both sides of the hinge.)



Photo: Riegler Messebau, Italy. Project: Introduction new Porsche.







| Ladder Corners     |      |      |      |     |     |     |     |      |     |     |     |     |     |     |
|--------------------|------|------|------|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|
| measurements in mm | А    | В    | С    | D   | E   | F   | G   | Н    | J   | K   | L   | М   | N   | Р   |
| X30L               | 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 |

| C001U - 45°  | C002U - 60°  | C003U - 90°                      |
|--------------|--------------|----------------------------------|
| B            | C            | D E                              |
| C004U - 120° | C005U - 135° | C016U                            |
| D F          | D G          | D H E                            |
| C017U        | C001F - 45°  | C002F - 60°                      |
| D H E        | J A          | K                                |
| C003F - 90°  | C004F - 120° | C005F - 135°                     |
|              | D            | D N                              |
| C016F        | C017F        |                                  |
| L D P        | L D P        | U = LADDER UP<br>F = LADDER FLAT |

| Triangular Corners |      |     |     |     |     |     |     |     |     |     |
|--------------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| measurements in mm | А    | В   | С   | D   | Е   | F   | G   | Н   | 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    |      |     |     |     |     |     |           |     |     |     |  |
|-----------------------|------|-----|-----|-----|-----|-----|-----------|-----|-----|-----|--|
| measurements in mm    | А    | В   | С   | D   | E   | F   | G         | Н   | 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 |  |
|                       | '    |     |     | '   | 1   | '   | 1         | '   |     | •   |  |
|                       |      |     |     |     |     |     |           |     |     |     |  |
|                       |      |     |     |     |     |     |           |     |     |     |  |
| C001 - 45° C002 - 60° |      |     |     |     |     |     | C003 - 90 | )°  |     |     |  |
|                       |      |     |     |     |     |     |           |     |     |     |  |





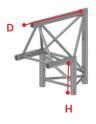


| C004 - 120° | C005 - 135° |
|-------------|-------------|
|             |             |

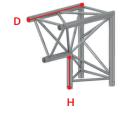


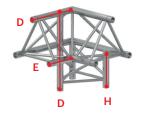


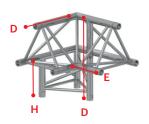




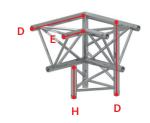
C007 C010 C011

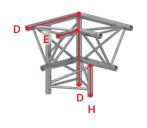


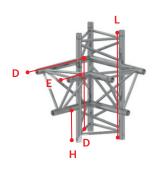




C012 C013 C014



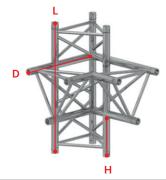






| Triangular Corners |      |     |     |     |     |     |     |     |     |     |
|--------------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| measurements in mm | Α    | В   | С   | D   | E   | F   | G   | Н   | K   | L   |
| E20D               | 800  | 264 | 415 | 400 | 178 | 272 | 308 | 203 | 578 | 603 |
| X/H30D             | 1000 | 300 | 498 | 500 | 210 | 333 | 380 | 242 | 710 | 742 |
| H40D               | 1200 | 258 | 525 | 600 | 210 | 376 | 439 | 255 | 810 | 855 |

# C015



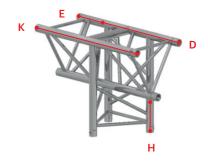
#### C016



C017



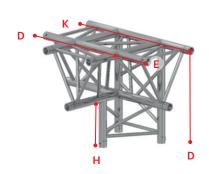
C018



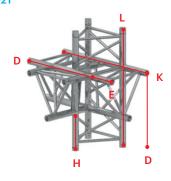
C019



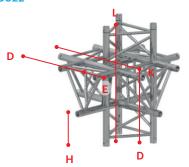
C020



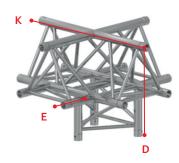
C021



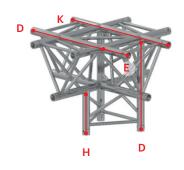
C022



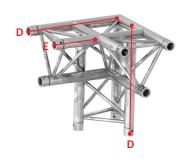
C023



C024



C039



| Square Corners     |      |     |     |     |     |     |     |     |  |  |  |  |
|--------------------|------|-----|-----|-----|-----|-----|-----|-----|--|--|--|--|
| measurements in mm | A    | В   | С   | D   | E   | F   | G   | н   |  |  |  |  |
| 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 |  |  |  |  |





C002 - 60°



C003 - 90°



C004 - 120°



C005 - 135°



C012



C016



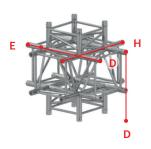
C017



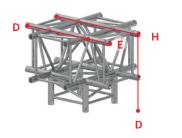
C020



C022



C024



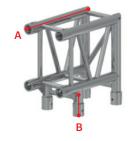


| Standard Corners - S36 Series |     |     |     |     |     |  |  |  |  |  |  |
|-------------------------------|-----|-----|-----|-----|-----|--|--|--|--|--|--|
| measurements in mm            | A   | В   | С   | D   | E   |  |  |  |  |  |  |
| S36R                          | 475 | 125 | 600 | 429 | 172 |  |  |  |  |  |  |
| S36V                          | 475 | 125 | 600 | 475 | 125 |  |  |  |  |  |  |

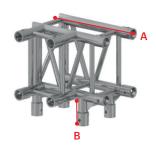
| S3 |  |  |  |
|----|--|--|--|
|    |  |  |  |
|    |  |  |  |



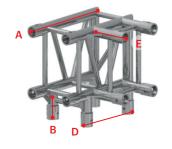
S36R - C007



S36R - C012



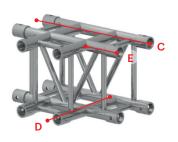
S36R - C013



S36R - C016



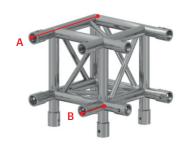
S36R - C017



S36V - C003



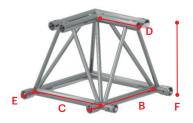
S36V - C012



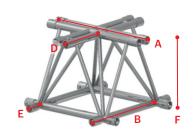
## STANDARD CORNERS S52F / S100F

| Standard Corners - S52F Series |     |     |     |     |    |     |  |  |  |  |  |
|--------------------------------|-----|-----|-----|-----|----|-----|--|--|--|--|--|
| measurements in mm             | A   | В   | С   | D   | E  | F   |  |  |  |  |  |
| S52F                           | 740 | 655 | 580 | 305 | 85 | 530 |  |  |  |  |  |

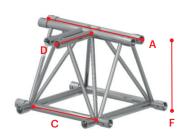
S52F - C003



S52F - C016

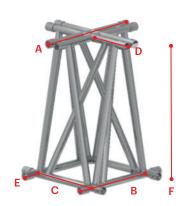


S52F - C017



| Standard Corners - S100F Series |     |     |     |     |    |      |  |  |  |  |  |
|---------------------------------|-----|-----|-----|-----|----|------|--|--|--|--|--|
| measurements in mm              | A   | В   | С   | D   | E  | F    |  |  |  |  |  |
| S100F                           | 740 | 655 | 570 | 305 | 85 | 1010 |  |  |  |  |  |

S100F - C016



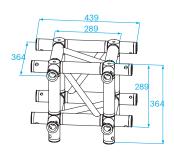
S100F - C017

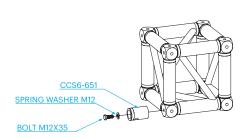






#### BOX-30V-0

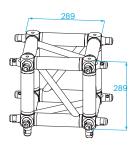


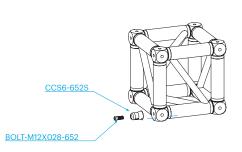


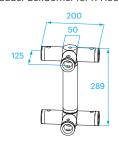


BOX-30L-0

Ladder BoxCorner for X•H30 truss. Measurements.

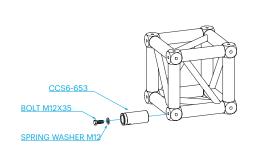








500



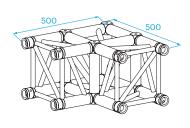
BOX-30 - KIT

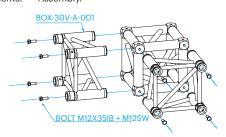
Kit for fixation and assembly. CCS6-651 to Box-30V-0.



BOX-30V-A-001

BoxCorner for X • H30V truss. Measurements. Assembly.





BOX-30V-ATT

BoxCorner attachment, pre- assembled CCS6-651 couplers.

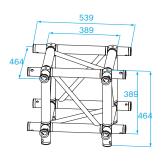


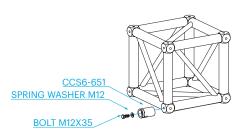
BoxCorner with attachments with same dimensions as standard corner.

Technical specifications - 30V BoxCorners

| 0-way 2-way |      | 3-way |      | 4-way |      | 5-way |      | 6-way |      | coupler | bolt | spring     |                |           |
|-------------|------|-------|------|-------|------|-------|------|-------|------|---------|------|------------|----------------|-----------|
| kg          | lbs  | kg    | lbs  | kg    | lbs  | kg    | lbs  | kg    | lbs  | kg      | lbs  |            |                | washer    |
| 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 | BM-M12x035     | BM-M12xSW |
|             |      |       |      |       |      |       |      |       |      |         |      | CCS6 - 652 | BM12x028 - 652 | -         |
|             |      |       |      |       |      |       |      |       |      |         |      | CCS6 - 653 | BM-M12x035     | BM-M12xSW |

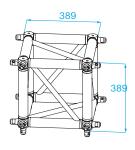
BOX-40V-0

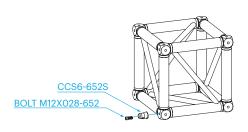


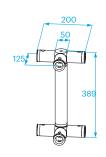




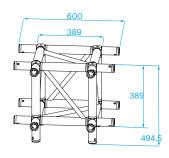
BOX-40L-0 Ladder BoxCorner for H40 truss. Measurements.

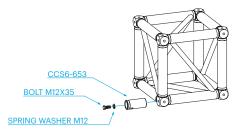






BOX-40-KIT
Kit for fixation and assembly. CCS6-651 to Box-40V-0.

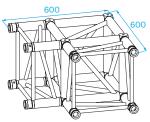


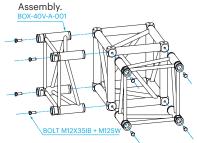




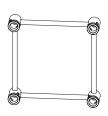
BOX - 40V - A001-A-001

BoxCorner for H40V truss. Measurements.





BOX-40V-ATT
BoxCorner attachment, pre- assembled
CCS6-651 couplers.



BoxCorner with attachments with same dimensions as standard corner.

Technical specifications - 40V BoxCorners

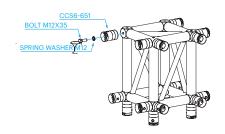
| roommour opcomou |      | TO V DOX |      |      |      |      |      |      |      |      |      |      |            |                |           |
|------------------|------|----------|------|------|------|------|------|------|------|------|------|------|------------|----------------|-----------|
|                  | 0-   | way      | 2-w  | ay   | 3-w  | ay   | 4-w  | ay   | 5-\  | way  | 6-\  | way  | coupler    | bolt           | spring    |
|                  | kg   | lbs      | kg   | lbs  | kg   | lbs  | kg   | lbs  | kg   | lbs  | kg   | lbs  |            |                | washer    |
|                  | 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 | BM-M12X035     | BM-M12-SW |
|                  |      |          |      |      |      |      |      |      |      |      |      |      | CCS6 - 652 | BM12x028 - 652 | -         |
|                  |      |          |      |      |      |      |      |      |      |      |      |      | CCS6 - 653 | BM-M12X035     | BM-M12-SW |

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



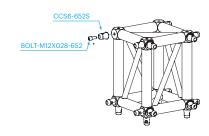
## BOX-40R-0

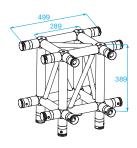


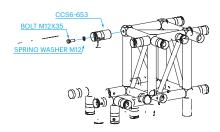












BOX-40R-A-001

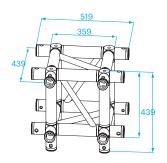


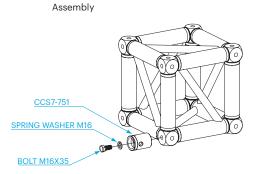




## BOX-36V-0

BoxCorner for S36V truss.

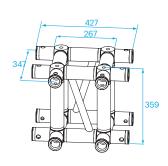


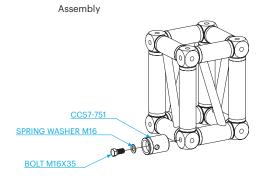




#### BOX-36R-0

BoxCorner for S36R truss.

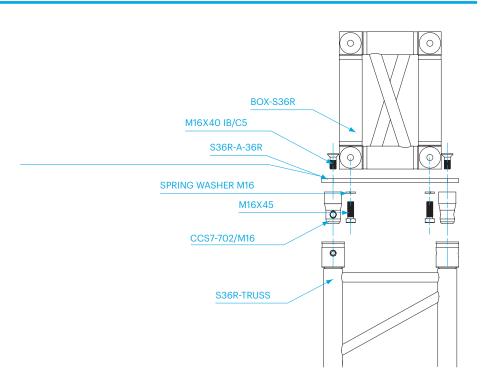






## ADAPTER S36R

Also available for a symmetrical setup with female couplers or an asymmetrical setup with female couplers.



| Technical | specifications S36 BoxCorners |  |
|-----------|-------------------------------|--|
|           |                               |  |

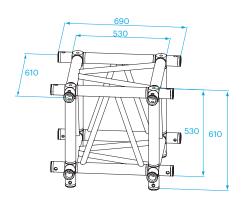
|           | 0-1  | way  | 2-way |      | 3-way |      | 4-way |      | 5-way |      | 6-\  | 6-way coupler |          | bolt       | spring    |
|-----------|------|------|-------|------|-------|------|-------|------|-------|------|------|---------------|----------|------------|-----------|
|           | kg   | lbs  | kg    | lbs  | kg    | lbs  | kg    | lbs  | kg    | lbs  | kg   | lbs           |          |            | washer    |
| 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 | BM-M16x035 | BM-M16-SW |
| 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 | BM-M16x035 | BM-M16-SW |

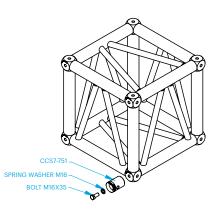
1 inch = 25,4 mm | 1 m = 3.28 ft | 1 lbs = 0,453 kg | 1 daN = 10 N  $\sim$  1 kg

#### BOX-52V-0

BoxCorner for S52/SV truss.

#### Assembly







| Technical specifications - | S52 BoxCorners |
|----------------------------|----------------|
|----------------------------|----------------|

|                | 0-1  | way  | 2-v  | vay  | 3-v  | vay  | 4-v  | vay  | 5-v  | vay  | 6-v  | vay  | coupler  | bolt       | spring    |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------------|-----------|
|                | kg   | lbs  |          |            | washer    |
| 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 | BM-M16-035 | BM-M16-SW |

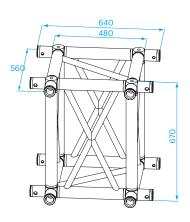
1 inch = 25,4 mm | 1 m = 3.28 ft | 1 lbs = 0,453 kg | 1 daN = 10 N ~1 kg

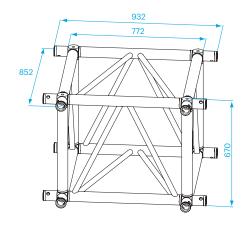
#### BOX-66R-0

BoxCorner for S66R truss.

## BOX-66V-0

BoxCorner for S66V truss.







| Technical: | specifications | - S66 | <b>BoxCorners</b> |
|------------|----------------|-------|-------------------|
|------------|----------------|-------|-------------------|

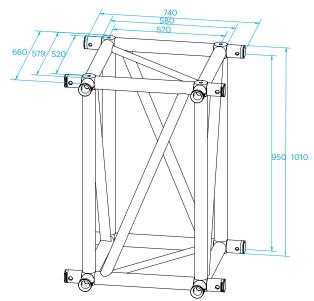
|           | 0-   | way  | 2-way |      | 3-way 4-way |      | 5-way |      | 6-way |      | coupler | bolt | spring   |        |        |
|-----------|------|------|-------|------|-------------|------|-------|------|-------|------|---------|------|----------|--------|--------|
|           | kg   | lbs  | kg    | lbs  | kg          | lbs  | kg    | lbs  | kg    | lbs  | kg      | lbs  |          |        | washer |
| 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 | 1 m = 3.28 ft | 1 lbs = 0,453 kg | 1 daN = 10 N  $\sim$  1 kg

# BOXCORNERS B100RV

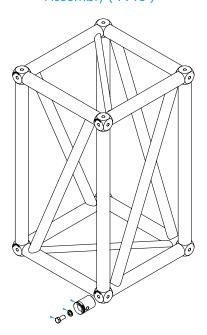
## BOX-100RV-0

BoxCorner for B100RV truss.





Assembly (1:10)



CCS7-751 SPRING WASHER M16 BOLT M16X35

| Technical speci | fication | s - B100 | RV BoxC | Corners |      |       |      |       |      |       |      |        |            |              |
|-----------------|----------|----------|---------|---------|------|-------|------|-------|------|-------|------|--------|------------|--------------|
|                 | 0-1      | way      | 2-\     | way     | 3-\  | 3-way |      | 4-way |      | 5-way |      | way    | bot        | nordlock     |
|                 | kg       | lbs      | kg      | lbs     | kg   | lbs   | kg   | lbs   | kg   | lbs   | kg   | lbs    |            |              |
| Box - 100RV     | 36.1     | 79.67    | 39.7    | 87.62   | 41.5 | 91.59 | 43.3 | 95.56 | 45.1 | 99.53 | 46.9 | 103.51 | BM-M16x035 | BM-M16-nordl |

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

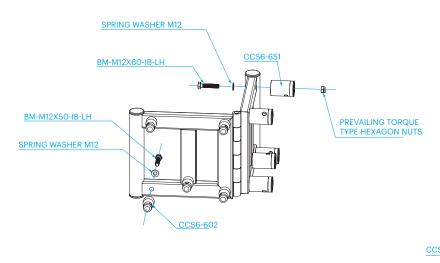




## BOOK-30D/V

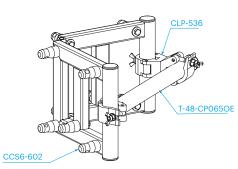
#### Assembly

Book corners can not be used as load bearing component. Loading should be supported form both sides of the book corner.



Book corner for 30D/V truss.





| Technical | specifications - | Book | Corners  | 30D/V  |
|-----------|------------------|------|----------|--------|
| 100mmou   | opoomoutiono     | DOOK | COLLICIO | 000, 0 |

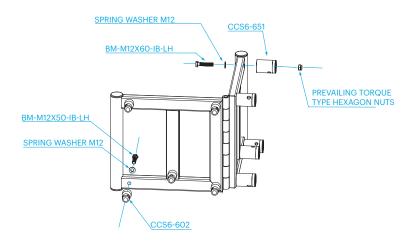
|              | kg   | lbs  | male<br>coupler | bolt   | female<br>coupler | bolt       | nut       | spring<br>washer |
|--------------|------|------|-----------------|--------|-------------------|------------|-----------|------------------|
| Book - 30D/V | 12,0 | 26.5 | CCS6 - 602      | M12x55 | CCS6 - 651        | BM-M12x060 | BM-M12-SN | BM-M12-SW        |

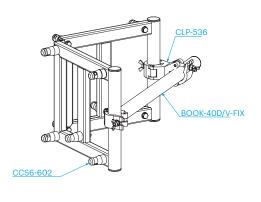
1 inch = 25,4 mm | 1 m = 3.28 ft | 1 lbs = 0,453 kg | 1 daN = 10 N  $\sim$  1 kg

## BOOK-40D/V

Assembly

Book corner for 40D/V truss.



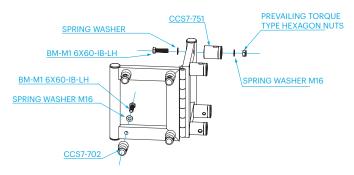


Technical specifications - Book Corners 40D/V

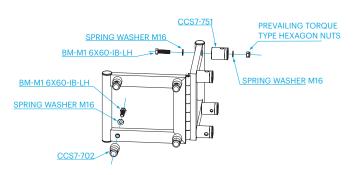
|             | kg   | lbs  | male<br>coupler | bolt   | female<br>coupler | bolt       | nut       | spring<br>washer |
|-------------|------|------|-----------------|--------|-------------------|------------|-----------|------------------|
| Book -40D/V | 15,5 | 34.2 | CCS6 - 602      | M12x55 | CCS6 - 651        | BM-M12x060 | BM-M12-SN | BM-M12-SW        |

#### BOOK-36R/V

Book corner for 36V truss.



Book corner for 36R truss.





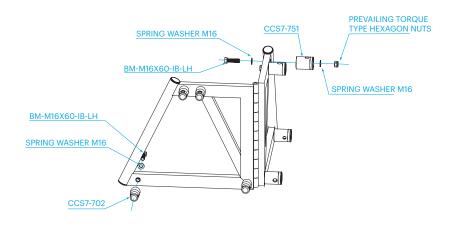
| Technical specifications - Book Corners 36R/V |
|---|
|---|

|            | kg   | lbs  | male<br>coupler | bolt   | female<br>coupler | bolt       | nut       | spring washer |
|------------|------|------|-----------------|--------|-------------------|------------|-----------|---------------|
| Book - 36R | 16,2 | 35.8 | CCS7-702        | M16x60 | CCS7-751          | BM-M16x060 | BM-M16-SN | BM-M16-SW     |
| Book - 36V | 17,2 | 38.0 | CCS7-702        | M16x60 | CCS7-751          | BM-M16x060 | BM-M16-SN | BM-M16-SW     |

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

#### BOOK-52F

Book corner for 52F truss.





|               | kg   | lbs  | male<br>coupler | bolt   | female<br>coupler | bolt       | nut       | spring washer |
|---------------|------|------|-----------------|--------|-------------------|------------|-----------|---------------|
| Book - 52F    | 21,5 | 47.5 | CCS7-702        | M16x60 | CCS7-751          | BM-M16x060 | BM-M16-SN | BM-M16-SW     |
| Book - 52S/SV | 20,7 | 45.7 | CCS7-702        | M16x60 | CCS7-751          | BM-M16x060 | BM-M16-SN | BM-M16-SW     |

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

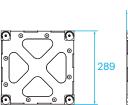


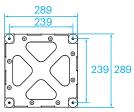
Heavy Duty Box Corner is a fully plated and bolted element and therefore is much stronger than the regular box corner. This allows you to build any 2D or 3D structures without losing involuntary strength due to the corner types used.

Due to its clever design, where the plated sides interlock with each other, the exact 90-degree shape is guaranteed. In combination with the narrow tolerances, this box corner is suitable to use in combination with the Verto truss as well. Furthermore, the plates can easily be changed in case of damages, offering an efficient and cost effective solution.

#### BOX-30V-HD-0

Heavy duty box corner for 30V truss.





Top view

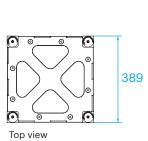
Front view

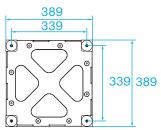


| Alloy       | EN-AW6082T6 |
|-------------|-------------|
| Bolts       | Grade 8.8   |
| Self weight | 12.5 kg     |

#### BOX-40V-HD-0

Heavy duty box corner for 40V truss.







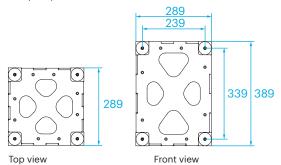


| Technical S | Specifications | Boxcorner | 40V HD |
|-------------|----------------|-----------|--------|
|-------------|----------------|-----------|--------|

| Alloy       | EN-AW6082T6 |  |
|-------------|-------------|--|
| Bolts       | Grade 8.8   |  |
| Self weight | 24.5 kg     |  |

### BOX-40R-HD-0

Heavy duty box corner for 40R truss.



In horizontal direction the boxcorner takes the H40R truss and in vertical direction the boxcorner takes the H30V truss.



| Technical | Specifications | Boxcorner | 40R HD |
|-----------|----------------|-----------|--------|

| · ·         |             |
|-------------|-------------|
| Alloy       | EN-AW6082T6 |
| Bolts       | Grade 8.8   |
| Self weight | 18.5 kg     |

## **COUPLERS AND ACCESSORIES**

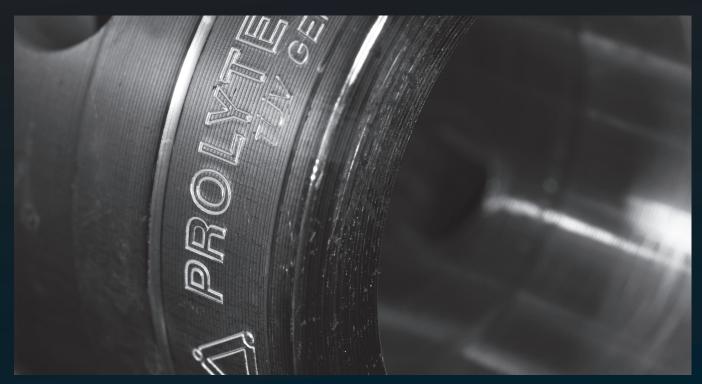


Photo: © the Prolyte. Omke Oudeman.

## **Couplers**

When Prolyte designed the original Conical Coupling System (CCS®), it represented a huge step forward in the development of truss systems. Even today, the now muchcopied Conical Coupling System is unrivalled in efficiency, strength and ease of assembly. Exhibiting significant advantages over other types of connection systems, the innovative Conical Coupling System 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 special coupling configurations is also available. With strong and rigid connections, the Conical Coupling System makes the assembly of your truss system safe, fast and easy.

## **Accessories**

Prolyte accessories are a range of additional products that can be used in combination with the Prolyte trusses or other complementary products.

This section presents a selection of accessories that might prove helpful in the assembly or setting-up of your truss constructions. Prolyte accessories all have one thing in common: they have been developed to help you realize the many possibilities and full potential offered by your Prolyte truss system. All Prolyte accessories are designed and manufactured to the highest industry standards, and all comply with safety regulations and, where applicable, are TUV approved. Prolyte accessories are divided into four categories: clamps, followspot chairs, exhibition products and rigging gear.





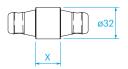


| CCS4-400        | weight = 0,058 kg |
|-----------------|-------------------|
| Conical coupler |                   |



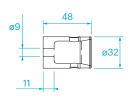


| CCS4-403                      | weight = 0,017 kg          |
|-------------------------------|----------------------------|
| Spigot                        | To be used with CCS6 - 605 |
| CCS4-403-RF (stainless steel) | safety R-spring            |



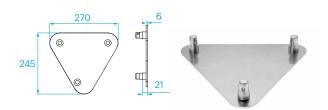


| CCS4-S05 through CCS4-S50 | weight = 0,070 - 0,170 kg          |
|---------------------------|------------------------------------|
| Spacers                   | X = 5 mm to 50 mm in steps of 5 mm |

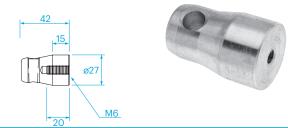




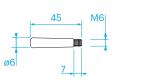
| CCS4-451               | weight = 0,065 kg           |
|------------------------|-----------------------------|
| Female conical coupler | With 9 mm hole for bolts M8 |



| BASE 20D                       | weight = 0,740 kg           |
|--------------------------------|-----------------------------|
| Baseplate for E20D truss incl: |                             |
| CCS4-402                       | Offset half conical coupler |
| BM-M6x020-IB-CS                | Bot M6x20mm countersunk     |

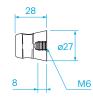


| 20                          |                         |
|-----------------------------|-------------------------|
| CCS4-402                    | weight = 0,050 kg       |
| Offset half conical coupler | Offset 15 mm, thread M6 |



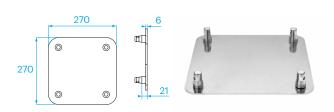


| CCS4-404                        | weight = 0,017 kg               |
|---------------------------------|---------------------------------|
| Spigot with tread M6            | To be used with selflocking nut |
| CCS4 - 404-RF (stainless steel) | BM-M6-SN                        |

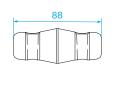




| CCS4-450             | weight = 0,029 kg      |
|----------------------|------------------------|
| Half conical coupler | Offset 0 mm, thread M6 |

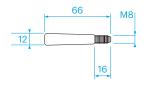


| BASE 20V                       | weight = 1,170 kg           |
|--------------------------------|-----------------------------|
| Baseplate for E20V truss incl: |                             |
| CCS4-402                       | Offset half conical coupler |
| BM-M6x020-IB-CS                | Bot M6x20mm countersunk     |



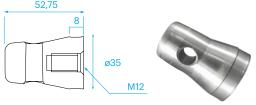


| CCS6-600        | weight = 0,148 kg |
|-----------------|-------------------|
| Conical coupler |                   |





| CCS6-604   | weight = 0,040 kg                           |
|--|---|
| Spigot with thread M8 CCS6 - 604RF (stainless steel) | To be used with selflocking nut<br>BM-M8-SN |
| 52,75  |   |



| CCS6-649                       | weight = 0,09 kg        |
|--------------------------------|-------------------------|
| Half conical coupler baseplate | Offset 8 mm, thread M12 |





| CCS6-650             | weight = 0,069 kg       |
|----------------------|-------------------------|
| Half conical coupler | Offset 0 mm, thread M12 |



| CCS6-652-23,5         | weight = 0,469 kg             |
|-----------------------|-------------------------------|
| Half coniccal coupler | Offset 23,5 mm, 12,5 mm hole  |
|                       | To be used with a M12 Hexagon |
|                       | head                          |

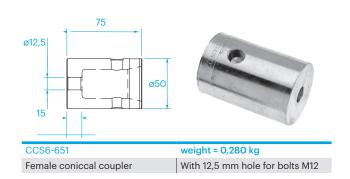


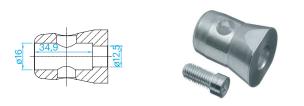
| CCS6-603                     | weight = 0,042 kg               |
|------------------------------|---------------------------------|
| Spigot                       | To be used with CCS6-605 safety |
| CCS6-603RF (stainless steel) | R-spring                        |



| CCS6-605<br>Safety R-spring | weight = 0,003 kg |
|-----------------------------|-------------------|
| 63<br>19<br>Ø35<br>26 M12   |                   |

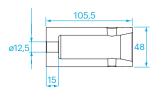
| CCS6-602                    | weight = 0,116 kg        |
|-----------------------------|--------------------------|
| Offset half conical coupler | Offset 19 mm, thread M12 |





| CCS6-652S             |                                     |
|-----------------------|-------------------------------------|
| Male coupler 600 half | With 12,5 mm hole for bolts M12     |
| BM - M12 x O28 - 652. | Bolt M12 x 028 bolt for CCS6 - 652S |







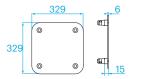
| CCS6-653               | weight = 0,360 kg       |
|------------------------|-------------------------|
| Female conical coupler | With 12 E mm hala for h |

With 12,5 mm hole for bolts M12



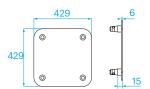
#### CCS6-H weight = 0,590 kg

Hinge for MPT Tower or ST Tower, 4 hinges per tower needed. See BlackBook "Technical Matters" for the use of hinges in different setups.





| BASE 30V                         | weight = 1,860 kg        |
|----------------------------------|--------------------------|
| Baseplate for X•H30D truss incl: |                          |
| CCS6-649                         | Conical half coupler     |
| BM-M12X020-IB-CS                 | Bot M12X20mm countersunk |



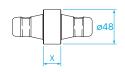


| BASE 40V                       | weight = 2,820 kg        |
|--------------------------------|--------------------------|
| Baseplate for H40D truss incl: |                          |
| CCS6-649                       | Conical half coupler     |
| BM-M12X020-IB-CS               | Bot M12X20mm countersunk |



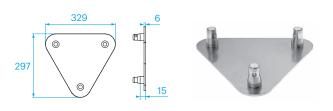
|   | BASE-30-40-SS-BC | weight = 49 kg       |
|---|------------------|----------------------|
| Base steel 30-40 series 800x10 mm round black coated; |                  |                      |
|   | BASE-30-40-SS-G  | - Galvanized         |
|   | CCS6-649         | Conical half counter |

BM-M12X020-IB-CS Bot M12X20mm countersunk



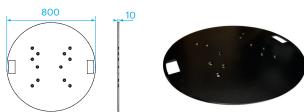


| CCS6-S02 through CCS6-S50 | weight = 0,187 kg - 0,404 kg       |
|---------------------------|------------------------------------|
| Spacers                   | X = 2 mm to 50 mm in steps of 5 mm |



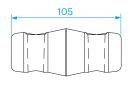
| BASE 30D                         | weight = 1,160 kg        |
|----------------------------------|--------------------------|
| Baseplate for X•H30D truss incl: |                          |
| CCS6-649                         | Conical half coupler     |
| BM-M12X020-IB-CS                 | Bot M12X20mm countersunk |
| 384                              |                          |

| BASE 40D                       | weight = 2,700 kg        |
|--------------------------------|--------------------------|
| Baseplate for H40D truss incl: |                          |
| CCS6-649                       | Conical half coupler     |
| BM-M12X020-IB-CS               | Bot M12X20mm countersunk |



|                         | u                               |
|-------------------------|---------------------------------|
| BASE-30-40-RS-BC        | weight = 38 kg                  |
| Base steel 30-40 series | s 800x10 mm round black coated; |
| BASE-30-40-RS-G         | - Galvanized                    |
| CCS6-649                | Conical half coupler            |
| BM-M12X020-IB-CS        | Bot M12X20mm countersunk        |

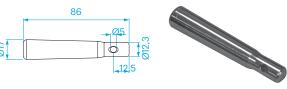
# COUPLERS CCS7





CCS7-700 Conical coupler weight = 0,310 kg

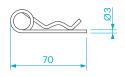




CCS7-703-C52T weight = 0,110 kg

Spigot To be used with CT Towers.

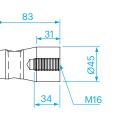
(Flush with truss)





CCS7-705 weight = 0,012 kg

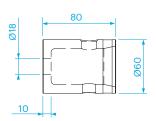
Safety R-spring





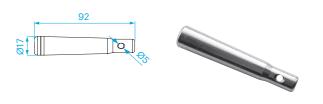
 CCS7-702/16
 weight = 0,260 kg

 Offset half conical coupler
 Offset 31 mm, thread M16



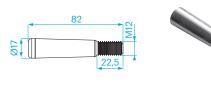


CCS7-751 weight = 0,350 kg
Female conical coupler With 18 mm hole for bolts M16

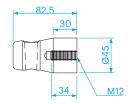


 CCS7-703
 weight = 0,115 kg

 Spigot
 To be used with CCS7 - 705



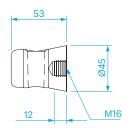
| CCS7-704                       | weight = 0,125 kg               |
|--------------------------------|---------------------------------|
| Spigot with thread M12         | To be used with selflocking nut |
| CCS7 - 704RF (stainless steel) | BM-M12-SN                       |





 CCS7-702/12
 weight = 0,265 kg

 Ofsett half conical coupler
 Offset 31 mm, thread M12





| CCS7-750             | weight = 0,150 kg       |
|----------------------|-------------------------|
| Half conical coupler | Offset 0 mm, thread M16 |

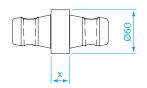


CCS7-H-O / CCS7-H-90 weight = 1,240 kg

Hinge for 36V and 52V truss. See BlackBook "Technical Matters" for the use of hinges in different setups.







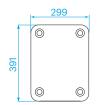


CCS7-S10 through CCS7-S50

weight = 0,350 kg - 0,360 kg

Spacers

x = 2 mm to 50 mm, in steps of 5 mm (minimum of 2 mm)







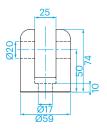
BASE 36R

weight = 1,860 kg

Baseplate for 36R truss incl:

CCS7-702/16 Conical half coupler

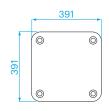
BM-M16X040-IB-CS bolt





CCS7-H-FM-BOLT

weight = 0,326 kg







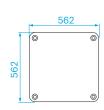
BASE 36V

weight = 1,160 kg

Baseplate for 36V truss incl:

CCS7-702/16 Conical half coupler

BM-M16X040-IB-CS bolt







BASE 52V

weight = 2,700 kg

Baseplate for 52V truss incl:

CCS7-702/16 Conical half coupler

BM-M16X040-IB-CS bolt



TOOL - HAM - 500 / TOOL - HAM - 750

Copper hammer

# CLAMPS 4 SERIES

The clamps are designed to fit a 32 mm (1 1/4") to 35 mm (1 3/8") tubes and are extruded from a high tensile aluminium alloy.

## **Technical features:**

- Compatible with the E20 Series truss
- Rated with safety factor 8:1 (kg) DGUV17/BGV C1
- Polished surface with laser markings
- Interchangeable M10 screw whichs ensures flexible attachment points
- Black anodized standard available, other colours on request



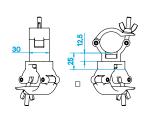






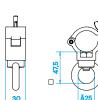
| CLP-P435         | V |
|------------------|---|
| Clamp (32-35 mm) | S |

weight = 0.08 kg SWL 160 kg (SF 8:1)





| CLP-P436                  | weight = 0.16 kg    |
|---------------------------|---------------------|
| Swivel coupler (32-35 mm) | SWI 160 kg (SE 8:1) |



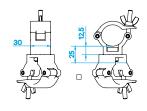


| CLP-P437                      | weight = 0.28 kg    |
|-------------------------------|---------------------|
| Clamp with eye nut (32-35 mm) | SWL 160 kg (SF 8:1) |





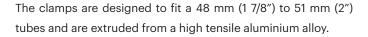
| CLP-P435B (Black) | weight = 0.08 kg    |
|-------------------|---------------------|
| Clamp (32-35 mm)  | SWL 160 kg (SF 8:1) |





| CLP-P436B (Black)         | weight = 0.16 kg    |
|---------------------------|---------------------|
| Swivel coupler (32-35 mm) | SWL 160 kg (SF 8:1) |





## **Technical features:**

- Compatible with the X/H30 and 40, S36, S40, S52, S66 and S100 Series truss
- Rated with safety factor 8:1 (kg) DGUV1722/BGV C1
- Polished surface with laser markings
- Equipped with a M12 Bolt and wingnut
- Black anodized standard available, other colours on request









| CLP-P535         |  |
|------------------|--|
| Clamp (48-51 mm) |  |

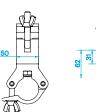
weight = 0.28 kg SWL 650 kg (SF 8:1)

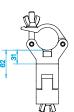


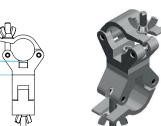




| CLP-P535-FPC            | weight = 0.22 kg   |
|-------------------------|--------------------|
| Panel holder (48-51 mm) | SWL 55 kg (SF 8:1) |







| CLP-P536                  | weight = 1.34 kg    |
|---------------------------|---------------------|
| Swivel coupler (48-51 mm) | SWL 540 kg (SF 8:1) |







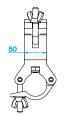
| CLP-P535B (Black) | weight = 0.28 kg    |
|-------------------|---------------------|
| Clamp (48-51 mm)  | SWL 650 kg (SF 8:1) |

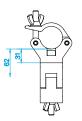






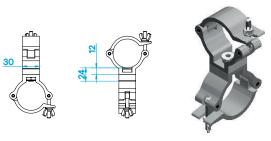
| CLP-P535L        | weight = 0.14 kg       |
|------------------|------------------------|
| Clamp (48-51 mm) | SWL 230 kg (SF 8:1) kg |





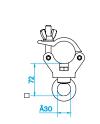


| CLP-P536B (Black)         | weight = 1.34 kg    |
|---------------------------|---------------------|
| Swivel coupler (48-51 mm) | SWL 540 kg (SF 8:1) |



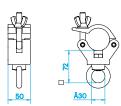
CLP-P536L weight = 0.27 kg SWL 230 kg (SF 8:1) Swivel coupler (48-51 mm)







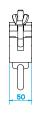
CLP-P537 weight = 0.83 kg Clamp with eye nut (48-51 mm) SWL 170 kg (SF 8:1)

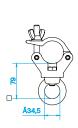




CLP-P537B (Black) Clamp with eye nut (48-51 mm)

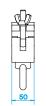
weight = 0.83 kg SWL 170 kg (SF 8:1)

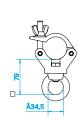






weight = 0.41 kg Clamp with eye nut (48-51 mm) SWL 750 kg (SF 8:1)

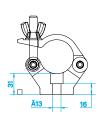






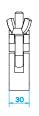
CLP-P538B (Black) weight = 0.41 kg Clamp with eye nut (48-51 mm) SWL 670 kg (SF 8:1)

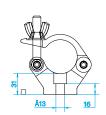






CLP-P545 weight = 0.41 kg SWL 560 kg (SF 8:1) Clamp slim (48-51 mm)



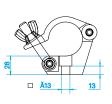




CLP-P545B (Black) weight = 0.41 kg SWL 560 kg (SF 8:1) Clamp slim (48-51 mm)





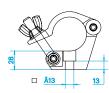




CLP-P587

weight = 0.57 kg SWL 780 kg (SF 8:1) Clamp side entry (48-51 mm)



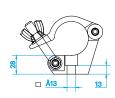




CLP-P587B (Black)

weight = 0.57 kg SWL 780 kg (SF 8:1) Clamp side entry (48-51 mm)



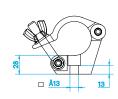




CLP-P588

weight = 0.37 kg Clamp slim side entry (48-51 mm) SWL 410 kg (SF 8:1)





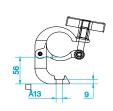


CLP-P588B (Black)

weight = 0.37 kg

Clamp slim side entry (48-51 mm) SWL 410 kg (SF 8:1)



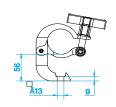




CLP-P589

weight = 0.50 kg SWL 350 kg (SF 8:1) Clamp (48-51 mm)







CLP-P589B (Black) Clamp (48-51 mm)

weight = 0.50 kg SWL 350 kg (SF 8:1)



The clamps are designed to fit a 60 mm (  $2\,3/8"$ ) to 63.5 mm ( $2\,1/2"$ ) tubes and are extruded from a high tensile aluminium alloy.

## **Technical features:**

- Compatible with the B100 and C52T Series truss
- Rated with safety factor 8:1 (kg) DGUV17/BGV C1
- Polished surface with laser markings
- Equipped with a M12 Bolt and wingnut
- Black anodized standard available, other colours on request



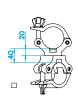






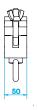
| CLP-P635      | weight = 0.65 kg    |
|---------------|---------------------|
| Clamp (60 mm) | SWL 650 kg (SF 8:1) |

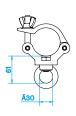






| CLP-P636                    | weight = 1.5 kg     |
|-----------------------------|---------------------|
| Swivel coupler (60-63.5 mm) | SWL 650 kg (SF 8:1) |

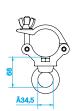






| CLP-P637                  | weight = 1.00 kg    |
|---------------------------|---------------------|
| Clamp with eye nut (60mm) | SWL 340 kg (SF 8:1) |







| CLP-P638                  | weight = 1.00 kg    |
|---------------------------|---------------------|
| Clamp with eye nut (60mm) | SWL 650 kg (SF 8:1) |





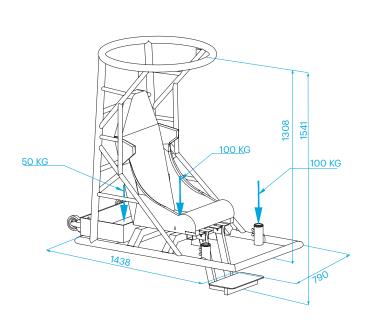


| CLP-P645                | weight = 1.00 kg    |
|-------------------------|---------------------|
| Clamp slim (60-63 5 mm) | SWI 510 kg (SF 8:1) |





Photo: Rombouts Showequipment BV, The Netherlands. Project: Love Letters.





## ACC-FSS-1

Followspot chair

Max. load ballast tray 50 kg Max. load person 100 kg Max. load follow spot 100 kg (only 2011 model)

#### **TRUSS DOLLY**

Prolyte now presents a new type of dolly to transport 30-series and H40R trusses. The dolly is made of a combination of lightweight plastic and steel, offering a rigid base to transport a stack of trusses. The dolly is used in combination with the standard truss carrier (ACC-515) and has a special compartment to store 5 of these inside the dolly. The dolly is further equipped with handle bars and special stacking rims to stow away your empty dollies efficiently.

The trusses can be secured in place by fixing the trusses and truss carriers to the dolly, by means of a ratchet strap (ratchet is included).

The relatively small, but stable and robust dolly, has 4 rotatable wheels with brakes. It offers an excellent transport solution for your truss, especially for smaller event locations or venues with limited access.

#### TRUSS DOLLY SPECIFICATIONS:

Measurements: 60 x 45 cm

Height: 18cmCapacity: 250kg



ACC-530

Truss dolly



ACC-515

Truss carrier for 30 series truss.



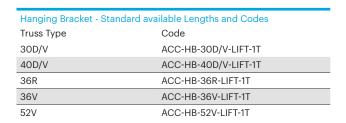






ACC-HB•••-LIFT-1T

Hanging Bracket WLL 1T





SW-10-----EE WLL 1000 kg, 10 mm

SW-14-----EE WLL 2000 kg, 14 mm

Steel wire rope

| Steel wire - St | andard available | e Lengths and Codes |
|-----------------|------------------|---------------------|
| Length (CM)     | Width (MM)       | Code                |
| 200             | 10               | SW-10-0200-EE       |
| 400             | 10               | SW-10-0400-EE       |
| 600             | 10               | SW-10-0600-EE       |
| 800             | 10               | SW-10-0800-EE       |
| 1000            | 10               | SW-10-1000-EE       |
| 200             | 14               | SW-14-0200-EE       |
| 400             | 14               | SW-14-0400-EE       |
| 600             | 14               | SW-14-0600-EE       |
| 800             | 14               | SW-14-0800-EE       |
| 1000            | 14               | SW-14-1000-EE       |



SS-10-•••EE/B WLL 1000 kg, 10 mm

Steel wire rope black

| Steel wire - Standard available Lengths and Codes |                 |                 |  |  |  |  |  |
|---|-----------------|-----------------|--|--|--|--|--|
| Length (CM)                                       | Width (MM) Code |                 |  |  |  |  |  |
| 200   | 10              | SW-10-0200-EE/B |  |  |  |  |  |
| 400   | 10              | SW-10-0400-EE/B |  |  |  |  |  |
| 600   | 10              | SW-10-0600-EE/B |  |  |  |  |  |
| 800   | 10              | SW-10-0800-EE/B |  |  |  |  |  |
| 1000  | 10              | SW-10-1000-EE/B |  |  |  |  |  |



SW-10-•••EE/C WLL 1000 kg, 10 mm

SW-14-•••EE/C WLL 2000 kg, 14 mm

Steel wire rope with cover

| Steel wire - St | andard available | e Lengths and Codes |
|-----------------|------------------|---------------------|
| Length (CM)     | Width (MM)       | Code                |
| 200             | 10               | SW-10-0200-EE/C     |
| 400             | 10               | SW-10-0400-EE/C     |
| 600             | 10               | SW-10-0600-EE/C     |
| 800             | 10               | SW-10-0800-EE/C     |
| 1000            | 10               | SW-10-1000-EE/C     |
| 200             | 14               | SW-14-0200-EE/C     |
| 400             | 14               | SW-14-0400-EE/C     |
| 600             | 14               | SW-14-0600-EE/C     |
| 800             | 14               | SW-14-0800-EE/C     |
| 1000            | 14               | SW-14-1000-EE/C     |

# RIGGING GEAR



SS-2T-•••

Softsteel, WLL 2T, Black

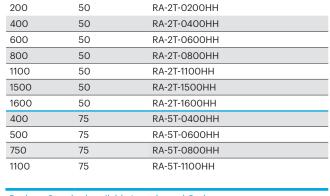
| Softsteel - Standard available Lengths and Codes |           |  |  |  |  |
|--|-----------|--|--|--|--|
| Length (CM)                                      | Code      |  |  |  |  |
| 50   | SS-2T-050 |  |  |  |  |
| 100  | SS-2T-100 |  |  |  |  |
| 150  | SS-2T-150 |  |  |  |  |
| 200  | SS-2T-200 |  |  |  |  |
| 300  | SS-2T-300 |  |  |  |  |



RA-2T-••••HH 2T 50 mm

RA-5T-••••HH 5T 75 mm

Ratchet Set



Code

Rachet set- Standard available Lengths and Codes

Width (MM)

Length (CM)



RA-2T-····OE

Ratchet. Endless. 2T. 50 mm

| Rachet - Standard available Lengths and Codes |            |              |  |  |  |
|---|------------|--------------|--|--|--|
| Length (CM)                                   | Width (MM) | Code         |  |  |  |
| 200   | 50         | RA-2T-02000E |  |  |  |
| 400   | 50         | RA-2T-04000E |  |  |  |
| 600   | 50         | RA-2T-06000E |  |  |  |
| 800   | 50         | RA-2T-08000E |  |  |  |



RI-BC-1-70245

Beam Clamp

| Rachet clamp - Standard available Lengths and Codes |                           |  |  |  |
|---|---------------------------|--|--|--|
| Code  | Description               |  |  |  |
| RI-BC-1-70245                                       | Beam Clamp, 1T, 70-245 mm |  |  |  |
| RI-BC-2-75230                                       | Beam Clamp, 2T, 75-230 mm |  |  |  |
| RI-BC-3-80322                                       | Beam Clamp, 3T, 80-322 mm |  |  |  |
| RI-BC-5-90320                                       | Beam Clamp, 5T, 90-320 mm |  |  |  |

# RIGGING GEAR







CH-07-•••-CHH

Chain, Clutch + Hook

Length 150/200 mm, WLL 1,5 ton

CH-10-----CHH

Chain, Clutch + Hook

Length 150/200 mm, WLL 3 ton



CH-07-200HCSH

Chain, Clutch + Hook + Spanner

Length 200 mm, WLL 1,5 ton

CH-10-200HCSH

Chain, Clutch + Hook + Spanner Length 200 mm, WLL 3 ton



CH-07-•••-CRH

Chain, Clutch + Hook + Ring

Length 150/200 mm, WLL 1,5 ton

CH-10------CRH

Chain, Clutch + Hook + Ring Length 150/200 mm, WLL 3 ton



CH-10-450CRR

Chain, Clutch + Ring WLL 3T ton Length = 450



Shackle 3.2T With bolt, nut and pin Also available in 4.7T



RI-SH3.2T-EB

Shackle 3.2T With bolt

Also available in 4.7T



RI-O-RING-1T

Top Ring Topschalm, WLL 1T

RI-O-RING-5T

Top Ring Topschalm, WLL 5T





Photo: Royal Opera House, London, UK

#### **READY FOR THE FUTURE**

The rapid evolution of contemporary theater productions has placed new demands on existing fly-bar systems. Important recent developments include higher loading requirements, a growth in the scope of productions, and the introduction of mechanically operated fly-bar systems. The demands placed by new production techniques have made many fly-bar systems no longer suitable for the job.

Developed to fill this gap, ProTrac is a substantially upgraded fly-bar system with several extra options and a high loading capacity. Additionally, because ProTrac is a lightweight system (low inherent weight), it allows a higher net loading capacity for your winches or drives.

## **ACCIDENTS AVOIDED**

Compared to commonly used conventional fly-bars or steel ladder beams, ProTrac dramatically reduces the horizontal bending that results from applying loads to the fly-bar. ProTrac has practically NO lateral flex: horizontal bending is less than 2 cm over 24 m of length when full load is applied. Nearby fly-bars will not be blocked and, more importantly, potential accidents due to the blocking of the flyway can be prevented. Further, ProTrac can be furnished with yellow end-caps to enhance visibility of the fly-bar, thus providing an extra safety margin for technicians and actors when working on stage.

#### **EASY INSTALLATION**

The ProTrac system is very flexible, allowing components of several different lengths to be easily combined and connected. ProTrac can replace conventional fly-bars in theatres or other venues without any alteration of the existing installation. There is no need to make adjustments to the suspension cables or the complete fly-bar system: the steel wires of the existing system can simply be connected to the adjustable suspension points of the ProTrac components. Calculation methods used for ProTrac comply with DIN 56921.

#### SYSTEM DESCRIPTION

ProTrac consists of a rectangular upper profile of extruded aluminium combined with a lower round aluminium tube or profile. Three types of lower profile can be connected to the upper profile:

1 Tube with slot profile 48,3 mm 2 Tube with slot profile 48,3 mm

with integrated rail fiting for Helm 100 runner

Tube with slot profile 60 mm

with integrated rail fiting for Helm 100 runner

The lower profile connects to the upper profile with stud bolts. Suspension points for the ProTrac components slide into the slot of the upper profile and are easily fixed, due to a lock and load system. ProTrac is a modular system. ProTrac is a modular system. Variable lengths can be connected via internal tubes, which are bolted into place. The connection of two lower profiles is placed under 45 degrees to guarantee flawless runner travel. ProTrac's profiles are black anodised and are furnished with rubber caps at the ends. The upper profile can be fitted with extra drilled holes of 50 mm (spaced 500 mm) to provide fittings for integrated electrical sockets.

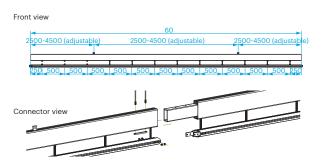
## ADVANTAGRD

- High loading capacity. Max. Point load of 350 kg on 4,5 m span possible.
- High Safety Factor: ProTrac has a Safety factor of 5 (on permanent deformation) and 10 (on failure).
- Reduced horizontal bending. The lateral flex is less than 2 cm over 24 m length if full load is applied, nearby flybars will not be blocked.
- Very low inherent weight: ProTrac is 20 to 25% lighter than steel ladder beams, which offers extra load capacity for your scenery.
- Modular and flexible: ProTrac can be used in all theatres or other venues, without any adjustments or changes to the structural components.
- Compact build height: ProTrac has a build height of only 306 mm.
- Black stays black: ProTrac is anodised black.
- Enhanced safety; End-caps available in several colours.



#### DO

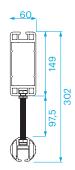
- Only use pre-tensioned steel wires for the suspension of flybars
- · Check the actual load on the fly-bar before the first movement
- Check the suspension of the load to the fly-bar before the first movement
- Make sure the fly path of loads or set pieces is not blocked
- Make sure you use the right type of sheave for your steel wires



- The given allowable loading is for the complete ProTrac system, and is equal for 48,3 mm or 60 mm lower tube.
- The allowable loading is given for the ProTrac only. In a complete system winch capacity and total length also have to be taken in account.
- The total weight of 2 point loads in 2 adjacent fields should not exceed the maximum allowable capacity of the suspension cable points.

#### **DO NOT**

- · Only use tested and certified hardware
- Keep a written logbook
- Exceed the maximum allowable load given cantilever the ProTrac more as stated in the structural report
- Use damaged parts or suspension equipment



#### Example:

Winch / Hoist capacity 750 kg.
Length of ProTrac = 24 m.
Self weight ProTrac = 216 kg.
Free loading capacity =
750 kg - 216 kg = 534 kg.
Point loads: 2 x point loads of 267 kg.
Max. Uniformly distributed load =
534/24 = 22,3 kg/m1.



Fig 1. Slide in lock and load block in upper profile.



Fig 2. Connection of upper to lower profile by means of stud bolts which are fastened with a self locking nut.



Fig 3. The 60 mm lower profile with integrated rail profile fit for Helm 100 runners for 48H & 60H.



**Fig 4.** A completely assembled section of ProTrac.

### TECHNICAL SPECIFICATIONS PROTRAC

| TYPES                 | UPPER PROFILE        | LOWER PROFILE<br>48,3 mm | LOWER PROFILE<br>48,3 mm + HELM 2<br>100 | LOWER PROFILE 603<br>mm + HELM 100 |
|-----------------------|----------------------|--------------------------|--|------------------------------------|
| Alloy                 | EN AW 6082 T6<br>F28 | EN AW 6082 T6 F31        | EN AW 6005 F26                           | EN AW 6005 F26                     |
| Profiles              | 60 diam.             | 48,3 mm.                 | 48,3 mm.                                 | 60 mm.                             |
| Coupling system       | bolts                | bolts                    | bolts                                    | bolts                              |
| Self weight           | 6,088 kg/m           | 1,944 kg/m               | 1,921 kg/m                               | 2,534 kg/m                         |
|                       |                      |                          |  |                                    |
| lx in mm <sup>4</sup> | 6581770              | 133896                   | 116630                                   | 222400                             |
| Wx in mm <sup>3</sup> | 90437                | 5760                     | 4160                                     | 7963                               |
| ly in mm <sup>4</sup> | 1074310              | 145635                   | 160570                                   | 289000                             |
| Wy in mm <sup>3</sup> | 36575                | 6350                     | 6648                                     | 9999                               |

| MAXIMUM DYNAMIC LOADS |      |        |        |                                       |        |         |       |       |       |       |       |
|-----------------------|------|--------|--------|---------------------------------------|--------|---------|-------|-------|-------|-------|-------|
| SE                    | PAN  | DISTRI | BUTED  | MAXIMUM ALLOWABLE POINT LOADS         |        |         |       |       |       |       |       |
| 01                    | AIN  | Lo     |        | · · · · · · · · · · · · · · · · · · · |        | , , , , |       |       |       |       |       |
| m                     |      | kg/m   | lbs/ft | kg                                    | lbs    | kg      | lbs   | kg    | lbs   | kg    | lbs   |
| 2,5                   | 8,2  | 462,3  | 311,1  | 577,9                                 | 1275,4 | 433,4   | 956,6 | 288,9 | 637,7 | 239,8 | 529,3 |
| 2,7                   | 8,9  | 396,1  | 266,5  | 534,7                                 | 1180,0 | 401,0   | 885,0 | 267,3 | 590,0 | 221,9 | 489,7 |
| 2,9                   | 9,5  | 343,0  | 230,8  | 497,4                                 | 1097,7 | 373,0   | 823,3 | 248,7 | 548,9 | 206,4 | 455,6 |
| 3,1                   | 10,2 | 299,9  | 201,8  | 464,9                                 | 1026,0 | 348,7   | 769,5 | 232,4 | 513,0 | 192,9 | 425,8 |
| 3,3                   | 10,8 | 264,4  | 177,9  | 436,3                                 | 962,9  | 327,2   | 722,2 | 218,1 | 481,4 | 181,1 | 399,6 |
| 3,5                   | 11,5 | 234,8  | 158,0  | 410,9                                 | 907,0  | 308,2   | 680,2 | 205,5 | 453,5 | 170,5 | 376,4 |
| 3,7                   | 12,1 | 209,9  | 141,2  | 388,3                                 | 857,0  | 291,2   | 642,8 | 194,2 | 428,5 | 161,2 | 355,7 |
| 3,9                   | 12,8 | 188,7  | 127,0  | 368,0                                 | 812,1  | 276,0   | 609,1 | 184,0 | 406,1 | 152,7 | 337,0 |
| 4,1                   | 13,4 | 170,5  | 114,8  | 349,6                                 | 771,6  | 262,2   | 578,7 | 174,8 | 385,8 | 145,1 | 320,2 |
| 4,3                   | 14,1 | 154,9  | 104,2  | 332,9                                 | 734,8  | 249,7   | 551,1 | 166,5 | 367,4 | 138,2 | 304,9 |
| 4,5                   | 14,8 | 141,2  | 95,0   | 317,7                                 | 701,2  | 238,3   | 525,9 | 158,9 | 350,6 | 131,9 | 291,0 |

## **TOWERS**



Photo: Prolyte

## System characteristics

Prolyte tower systems consist of four types of rigging towers and the MPT, ST, CT and DT ground support systems. All tower systems are based on standard Prolyte truss. Extending your inventory to encompass more complex systems (like towers or roofs) is a cost-efficient process, proceeding as a step-by-step investment. You only need to buy the additional parts, such as base or top sections. This approach offers extraordinary flexibility and facilitates optimum use of your existing 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 1800 kg in terms of allowable load, and from 7,60 m to 16 m in terms of 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 goal post setup (two towers) or as ground support (three or more towers). The ground support towers are available in four types: the MPT Tower (to be used in combination with all trusses from the Multipurpose Series), the ST tower (to be used in combination with all the trusses from the Heavy-Duty Series), the CT tower (to be used in combination with the B100RV/S100F and BGR70 truss) and the DT tower to be used in combination with the mammoth 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-H3OV, MPT and ST mast sections use the CCS6 system. The RT-36V, RT S52SV, RT-B100RV and CT mast section use the CCS7 system. The Conical Coupling System allows fast, efficient and reliable coupling of your towers.

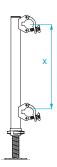




Photo: ModifiC, Russian Federation. Project: RT Sound -Nokia Snowboard.

The light-duty RT-H30V 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 stabilisers 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 build 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. Its relatively small dimensions make it suitable for a range of applications, including outdoor events, concerts, shopping malls, halls, exhibition areas and theme parks.

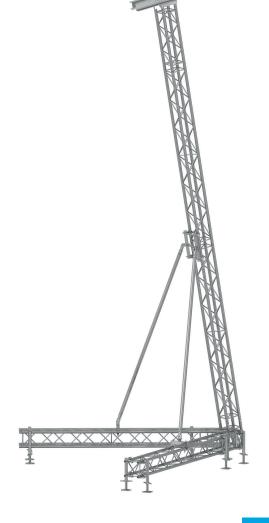


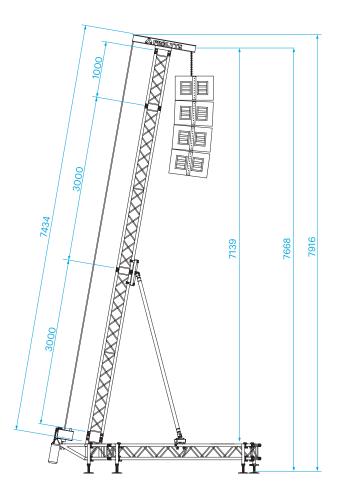
#### ACC-SPIN-ATT-30

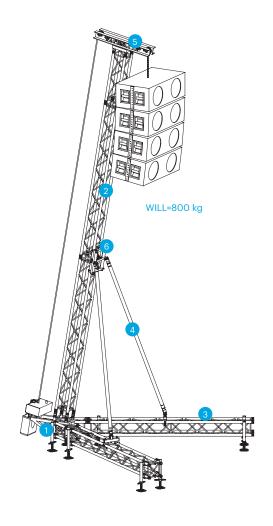
Spindle attachment 30 truss, x = 239 mm.

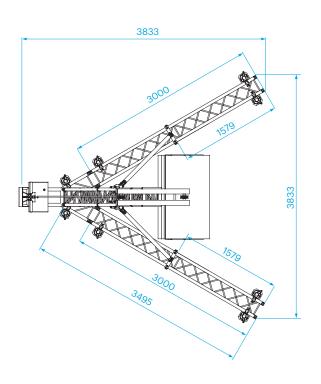
#### ACC-SPIN-LAY/40

Spindle to be ordered separately.



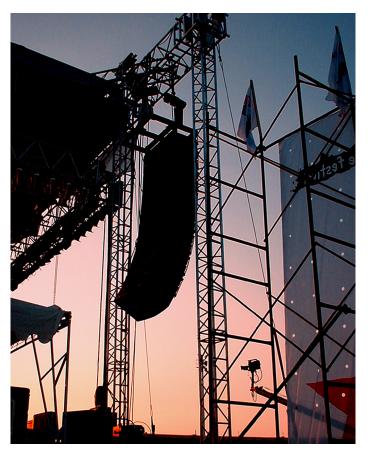






| Legend                  |                                 |                                 |
|-------------------------|---------------------------------|---------------------------------|
| 1                       | CORNER                          | RT-H30V-C003                    |
| 2                       | 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                |
| Те                      | chnical specifications - RT-H30 | OV-0,8T                         |
| ma                      | ax. overall height              | 7,92 m (other heights optional) |
| ma                      | ax. lifting height              | 7,60 m                          |
| ma                      | ax. loading capacity            | 800 kg (1760 lbs)               |
| max. surface load front |                                 | 2,5 m <sup>2</sup>              |
| max. surface load side  |                                 | 1,2 m <sup>2</sup>              |
| truss sections          |                                 | H30V                            |
| sta                     | abiliser                        | 60 mm                           |
| СО                      | upling system                   | CCS6 series                     |
| alloy alu parts         |                                 | EN - AW 6082 T6                 |
| min ballast             |                                 | 250 kg                          |
| max ballast             |                                 | 500kg                           |
| max. windspeed          |                                 | 20,7 m/s (46.3 mph)             |
| system weight           |                                 | 260 kg                          |
|                         |                                 |                                 |

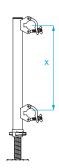






The medium-duty RT-S36V has a loading capacity of 1000 kg and a maximum lifting height of  $9,25~\mathrm{m}.$ 

The RT S36V is based on S36V truss with stabilisers 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 compact dimensions make it suitable for a range of applications, including outdoor events, concerts, shopping malls, halls, exhibition areas and theme parks.



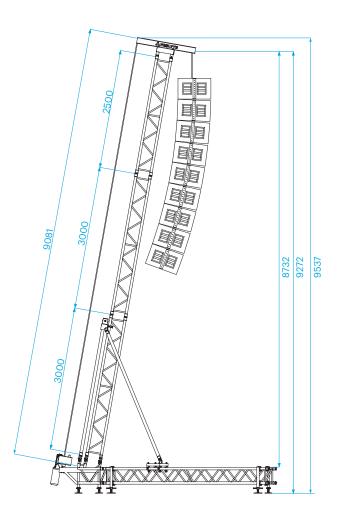
## ACC-SPIN-ATT-36

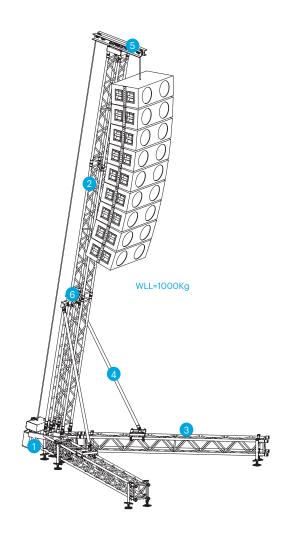
Spindle attachment 36 truss, x = 299 mm.

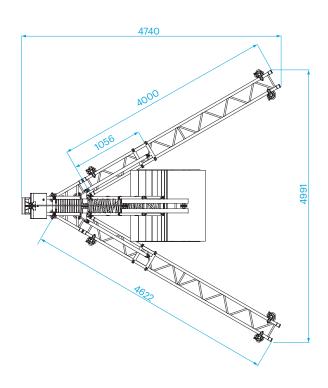
#### ACC-SPIN-LAY/40

Spindle to be ordered separately.









| Le | gend               |                   |
|----|--------------------|-------------------|
| 1  | CORNER             | RT-S36V-C003      |
| 2  | MAST SECTION       | 36V-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 load front               | 5 m <sup>2</sup>                |  |
| max. surface load side                | 2,5 m <sup>2</sup>              |  |
| truss sections                        | S36V                            |  |
| stabiliser                            | 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                          |  |

Structural specifications available

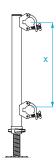




Photo: Prolyte, The Netherlands.

The medium-to-heavy-duty RT-S52SV has a loading capacity of 1000 to 1400 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 stabilisers of H30D truss. It has a self-weight of 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 into position.

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

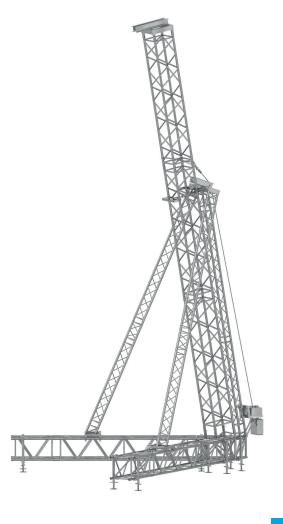


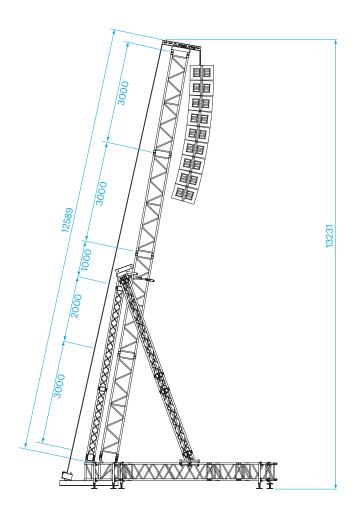
### ACC-SPIN-ATT-52

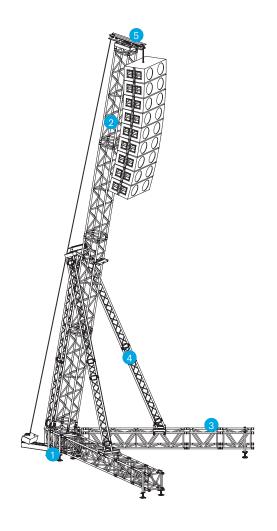
Spindle attachment 52 truss, x = 470 mm.

#### ACC-SPIN-LAY/60

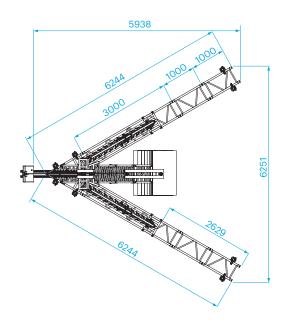
Spindle length 600mm







| Legend |                    |               |
|--------|--------------------|---------------|
| 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       |



| Technical specifications - RT-S52SV-1,0T / RT-S52SV-1,4T |                     |                     |
|--|---------------------|---------------------|
|  | RT-S52SV-1T         | RT-S52SV-1,4T       |
| max. overall height                                      | 13,27 m             | 11,30 m             |
| max. lifting height                                      | 12,95 m             | 10,95 m             |
| max. loading capacity                                    | 1000 kg (2200 lbs)  | 1400 kg (3080 lbs)  |
| max. surface front load                                  | 4 m <sup>2</sup>    | 4 m <sup>2</sup>    |
| max. surface side load                                   | 2 m <sup>2</sup>    | $2 \text{ m}^2$     |
| truss sections   | S52SV               | S52SV               |
| stabiliser   | H30D                | H30D                |
| coupling system  | CCS7 series         | CCS7 series         |
| alloy alu parts  | EN - AW 6082 T6     | EN - AW 6082 T6     |
| min. ballast*  | 650 kg per leg      | 600 kg per leg      |
| max. windspeed   | 20,7 m/s (46.3 mph) | 20,7 m/s (46.3 mph) |
| system weight  | 520 kg (1144 lbs)   | 495 kg (1089 lbs)   |
|  |                     |                     |

<sup>\*</sup>Ballast values when full pay load is applied.



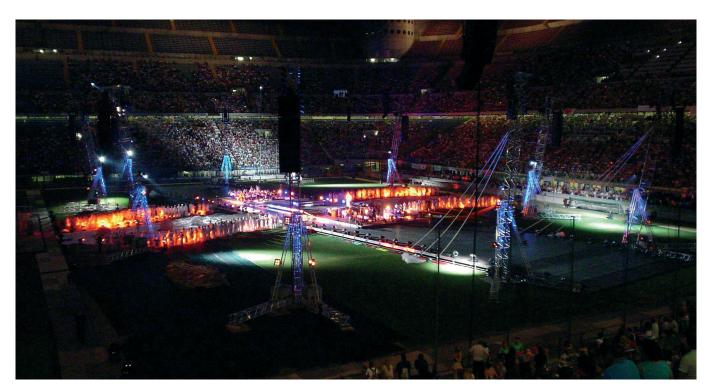
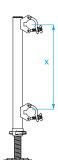


Photo: Italstage, Italy.

The heavy-duty RT-B100RV has a loading capacity of 1800 kg and a maximum lifting height of 15,95 m. The RT-B100RV is based on B100RV truss with stabilisers 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, major public gatherings, and large stadiums.

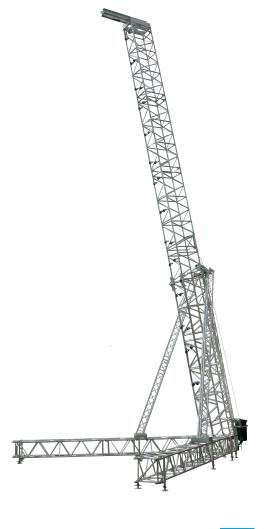


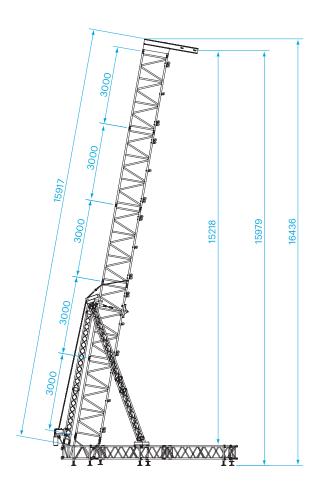
## ACC-SPIN-ATT-52

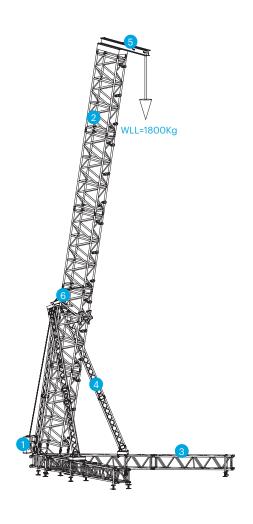
Spindle attachment 52 truss, x = 470 mm.

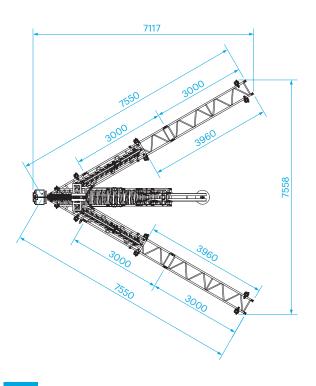
## ACC-SPIN-LAY/60

Spindle to be ordered separately.









| 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 | Legend |                    |                |
|---|--------|--------------------|----------------|
| 3 LEG SECTION S52SV-L••• 4 STABILISER SECTION H30D-L••• 5 TOP SECTION RT-009-B100RV   | 1      | CORNER             | RT-B100RV-C003 |
| 4 STABILISER SECTION H30D-L••• 5 TOP SECTION RT-009-B100RV  | 2      | MAST SECTION       | B100RV-L300    |
| 5 TOP SECTION RT-009-B100RV   | 3      | LEG SECTION        | S52SV-L•••     |
|   | 4      | STABILISER SECTION | H30D-L•••      |
| 6 MAST ATTACHMENT RT-TOP  | 5      | TOP SECTION        | RT-009-B100RV  |
| o milet in termera  | 6      | MAST ATTACHMENT    | RT-TOP         |

| Technical specifications - RT-B100RV - 2,3T |                           |  |
|---|---------------------------|--|
| max. overall height                         | 16,43 m                   |  |
| max. lifting height                         | 15,95 m                   |  |
| max. loading capacity                       | 1800 kg (3960 lbs)        |  |
| max. surface load front                     | 5 m <sup>2</sup>          |  |
| max. surface load side                      | 2,5 m <sup>2</sup>        |  |
| truss sections                              | B100RV / S52SV            |  |
| stabiliser                                  | H30D                      |  |
| coupling system                             | CCS7 series / CCS6 series |  |
| alloy alu parts                             | EN - AW 6082 T6           |  |
| ballast backside                            | 2 x 2000 kg               |  |
| ballest and outriggers                      | 2 x 1100 kg               |  |
| max. windspeed                              | 20,7 m/s (46.3 mph)       |  |
| system weight                               | 695 kg (1530 lbs)         |  |





Photo: JSA, Russian Federation.

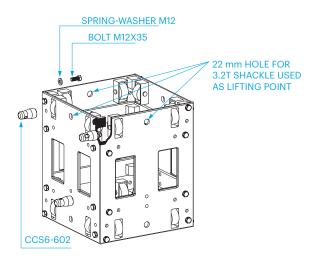
The MPT tower is based on H30V truss and employs a sleeve block that fits to any of the 30 or 40 Series trusses on all four sides by means of bolted CCS6 couplers (either male or female). In combination with an adapter plate, it is also possible to use the sleeve module with either S36R or S36V truss. 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 need only purchase the special parts if you wish to expand your truss system with towers.

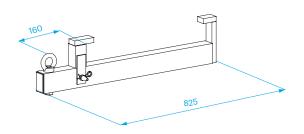








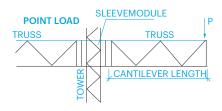
Sleeve module

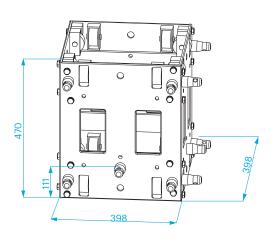


#### MPT-041

MPT Motor attachment. WLL 1000 kg.

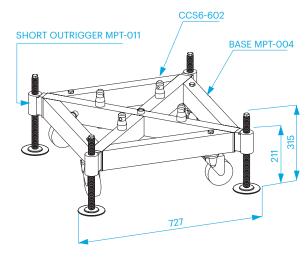
| MPT-010 Sleeve module - Allowable cantilever load |         |         |         |         |  |  |  |  |  |  |  |
|---|---------|---------|---------|---------|--|--|--|--|--|--|--|
| Length (L) H40V H40D H30V H30D                    |         |         |         |         |  |  |  |  |  |  |  |
|   | X40V    | X40D    | X30V    | X30D    |  |  |  |  |  |  |  |
|   | PL (kg) | PL (kg) | PL (kg) | PL (kg) |  |  |  |  |  |  |  |
| 0,5   | 400     | 160     | 400     | 130     |  |  |  |  |  |  |  |
| 1   | 200     | 80      | 200     | 65      |  |  |  |  |  |  |  |
| 1,5   | 130     | 50      | 130     | 40      |  |  |  |  |  |  |  |
| 2   | 100     | 40      | 100     | 30      |  |  |  |  |  |  |  |





#### MPT-010

Sleeve module



#### MDT-OO

Base with MPT-011 short outriggers.

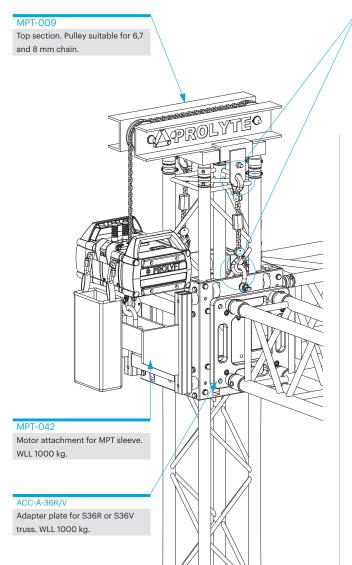
| Technical specifications - MPT Tower   |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|
| max. height                            | 8.00 m   |  |  |  |  |  |  |  |  |
| max. loading capacity                  | 1000 kg*   |  |  |  |  |  |  |  |  |
| type mast sections                     | H30V   |  |  |  |  |  |  |  |  |
| sleeve block suitable for truss-series | X or H30D, X or H30V, X or H40D<br>and X or H40V, H40R, 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 height and size, further the applied load and the method of restraining the tower base and top also have its influence on the total loading capacity. All these factors must be taken into consideration when determining the allowable load.

More information can be found in the Prolyte BlackBook.





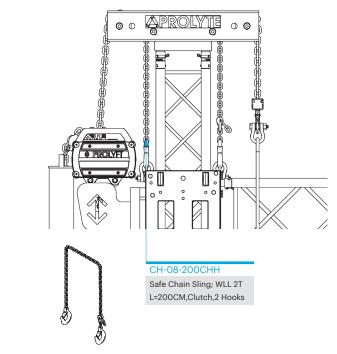


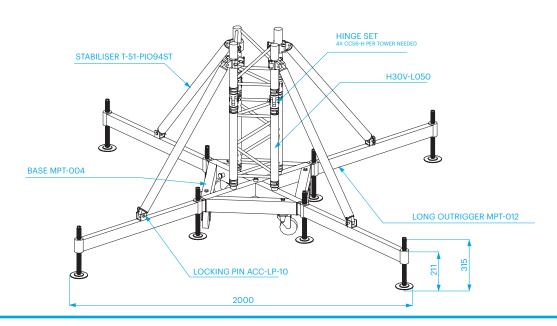
| MPT Safe     |   |                                |
|--------------|---|--------------------------------|
| Code         |   |                                |
| MPR-009      | 2 | MPT SLEEVE/ATTACH HIJSOOG      |
| RI-SH3.2T    | 2 | SHACKLE 3 2T WITH BOLT/NUT/PIN |
| CH-07-150CHH | 2 | CH 1.5T,L=150,CLUTCH,HOOK      |
| BM-M12X400   | 1 | THRDROD M12X400                |
| BM-M12-N     | 4 | NUT M12 DIN934                 |
| BM-M12-SW    | 4 | WSHR M12 SPRNG DIN127B         |

# Top Section Option 2:

# MPT-009S

Top section-





# MPT-004

Base with MPT-012 long outriggers.

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), depending on the tower configuration. 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. A completely mounted hinge set. First locate the hinge pins on one side. The truss now works as a hinge and can be erected easily. Subsequently locate the remaining hinge 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. Make sure the screw jacks can absorb tower forces through filler plates where needed. 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). 8 Prolyte recommends that, during storage and transportation, the MPT towers be mounted as an assembly of the following compo-

nents: base section, 50 cm mast section, sleeve block, hinges and top section. This combination facilitates fast, efficient loading and building of the towers (size  $60 \times 60 \times 115$  cm, weight +/- 115 kg).





The H40R truss is a rectangular standard H40 truss with a very clever program of specifications. The H40R measures 387 mm high by 287 mm wide. For the H40R Prolyte has developed a special adapter to be able to mount this flexible truss type on the MPT tower system, thereby offering more application possibilities.

The H40R is available in all standard lengths as well as a Box Corner. Apart from the standard lengths and Box Corner for the H40R range, Prolyte offers a Box Corner attachment and the H40R MPT adapter; completing the H40R range to a convenient and flexible range.

Depending on the coupling method, the following bolts are required to attach the adapter:

- To attach the H40R-MPT010-ADAP to the sleeve block: BM-M12X075 + BM-M12-N + BM-M12-SW
- To attach the CCS6-651: BM-M12X050-IB + BM-M12-SN + BM M12-SW
- To attach the CCS6-602: BM-M12X040 + BM-M12-SW



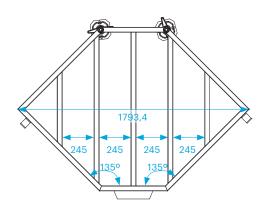
#### MPT BALLAST FRAME

The ballast frame MPT-005 is designed to offer a safe, engineered and easy solution for your ballast requirements. These aluminium frames are simply mounted between the long outriggers of your ST- or MPT base section. Layher screw spindles are placed at the outside for optimum levelling each ballast frame. The system doesn't require any tooling. Standard, pallet-sized water tanks fit on the resulting platforms to create your ballast weight.

#### **HOW TO USE THE BALLAST FRAME**

The ballast frames should be used only in conjunction with long outriggers and stabiliser braces. All ballast frames and ballast should be positioned symmetrically. For any other needed set-ups, please contact our engineering department. The amount of ballast required for a structure is dependent on the outcome of structural analysis. Due to deflection of components not all applied ballast can be activated. The outsides will stay grounded, while the area around the tower will have the tendency to tip or be lifted (see drawing example).

| MPT-005 SPECIFICATIONS |                  |                                      |  |  |  |  |  |  |  |
|------------------------|------------------|--------------------------------------|--|--|--|--|--|--|--|
|                        | Weight           | MPT-005: 17,8 kg/frame               |  |  |  |  |  |  |  |
|                        | Article Code:    | MPT-005 MPT ballast frame 1000kg     |  |  |  |  |  |  |  |
|                        | Additional items | 2 x ACC-SPIN-LAY/60-60 SCREWJACK per |  |  |  |  |  |  |  |
|                        | required:        | frame are needed.                    |  |  |  |  |  |  |  |





The HT tower is an upgrade on the MPT Tower, based on H3OV truss sections and employs a new type of sleeve block that fits the 40 square series truss on all four sides by means of bolted CCS6 couplers (either male or female).

In combination with an adapter plate, it is also possible to use the sleeve block with either H40R or H30V truss, to maintain full capacity of the truss. The HT sleeve module is a fully bolted structural element, making it much stronger and more precise than conventional welded versions. Compared to the current MPT sleeve block, the HT sleeve block is reduced in size and has the same measurements as the standard H40V box corner. The transfer of forces is optimised, which makes the element as strong as the truss is — creating a significant increase of for example cantilever loads.

Also, a dedicated guywire attachment is integrated into the sleeve block. The sleeve block has on all 4 sides wire thread holes which are suitable to attach eye bolts which can take guywires to stabilize your system.

#### Advantages HT-010

- Fully bolted sleeve block, making it stronger than welded versions.
- Same size as the standard 40 series box corners.
- · Suitable for H40V truss.
- Sleeve block with attachment points on four sides for eyebolts
- Improved strength compared to the MPT sleeve module
- Easy to use dead hang system.
- Adapter plate available for other truss series (H30V and H40R).

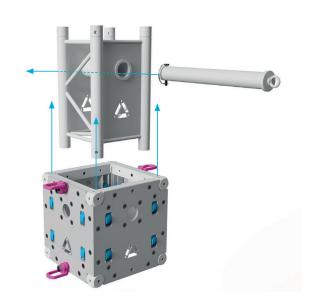


# HT TOWER DEAD HANG SOLUTION

The HT tower also has a new dead hang solution. The dead hang of the system can now be done by a dead hang pin which will be placed through the sleeve block in a special H30V tower section with a length of 50 cm. This dead hang solution is quick, lightweight, easy to attach and protects your system also against uplift. The top section (MPT-009S) and base section (MPT-004) can facilitate the use of either a hand winch or a chain hoist.

# MPT-004 with the HT-010

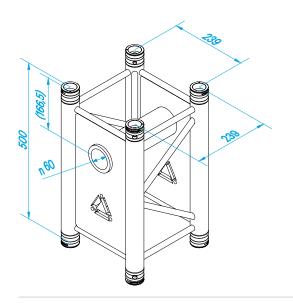








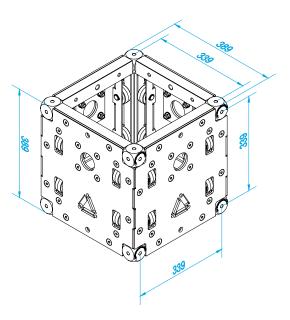
# **Dead hang Truss**





H30V-L•••-HT-DH Dead hang Truss

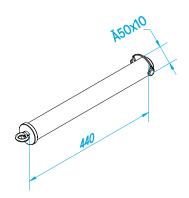
Dead hang Sleeve module





HT-010 Sleeve module

Dead hang Pin





HT-DH-PIN

Deadhang Pin



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

The ST tower is based on S40T mast sections. These mast sections have one-sided horizontal bracing to facilitate safe and easy climbing of the towers, with the use of an appropriate fall protection system. The ST tower uses several sleeve module 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 need only purchase the special parts if you wish to expand your truss system with towers.

There is a structural relation between tower length and size. Additionally, the applied load and the method of restraining the tower base also contribute to determination of the total loading capacity. All these factors must be taken into consideration when determining the allowable load and tower length.





| S40T - Series   | S40T - Series standard available lengths |      |      |      |      |      |       |  |  |  |  |  |  |  |
|---|--|------|------|------|------|------|-------|--|--|--|--|--|--|--|
| Meters 0,5 1,00 1,50 2,00 2,50 3,00 4,00 Average weight per meter = 10,3 kg |  |      |      |      |      |      |       |  |  |  |  |  |  |  |
| Feet  | 1.64                                     | 3.28 | 4.92 | 6.56 | 8.20 | 9.84 | 13.12 | Average weight in pounds per feet = 6,93 LBS |  |  |  |  |  |  |

# ST TOWER - HEAVY DUTY TOWER SYSTEM





| <i>8</i> 43 · | 3401 - All | owabie ii | Juding            |       |       |          | <u>-</u>  |       |       |        | V.                       | , ,                   | ***                       |  | <b>*</b> |              |
|---------------|------------|-----------|-------------------|-------|-------|----------|-----------|-------|-------|--------|--------------------------|-----------------------|---------------------------|--|----------|--------------|
|               |            |           |                   |       |       |          |           |       |       |        |                          |                       |                           |  |          |              |
|               |            |           | Distributed<br>ad |       |       | Centre P | oint Load |       |       |        | Third Points<br>er Point | Single Load<br>Load p | Fourth Points<br>er Point | s Single Load Fifth Points<br>Load per Point |          |              |
| S             | PAN        | UE        | )L                | DEFLE | CTION | CI       | PL        | DEFLE | CTION | TF     | PL PL                    | QI                    | PL                        | FPL  |          | SPAN         |
| m             | ft         | kg/m      | lbs/ft            | mm    | inch  | kgs      | lbs       | mm    | inch  | kgs    | lbs                      | kgs                   | lbs                       | kgs  | lbs      | total weight |
| 3             | 9,8        | 1532,2    | 1031,0            | 6     | 0,2   | 2857,8   | 6307,2    | 5     | 0,2   | 1835,6 | 4051,1                   | 1473,6                | 3252,2                    | 1149,2                                       | 2536,2   | 36           |
| 4             | 13,1       | 1146,5    | 771,4             | 10    | 0,4   | 2344,0   | 5173,2    | 8     | 0,3   | 1534,8 | 3387,4                   | 1202,8                | 2654,7                    | 1002,4                                       | 2212,2   | 48           |
| 5             | 16,4       | 765,9     | 515,4             | 16    | 0,6   | 1914,8   | 4226,0    | 13    | 0,5   | 1324,1 | 2922,2                   | 957,4                 | 2113,0                    | 797,8  | 1760,8   | 60           |
| 6             | 19,7       | 528,6     | 355,7             | 23    | 0,9   | 1585,8   | 3499,8    | 18    | 0,7   | 1162,0 | 2564,5                   | 792,9                 | 1749,9                    | 660,7  | 1458,3   | 72           |
| 7             | 23,0       | 385,5     | 259,4             | 31    | 1,2   | 1349,2   | 2977,7    | 25    | 1,0   | 1011,9 | 2233,3                   | 674,6                 | 1488,9                    | 562,2  | 1240,7   | 84           |
| 8             | 26,2       | 292,6     | 196,9             | 41    | 1,6   | 1170,4   | 2583,2    | 32    | 1,3   | 877,8  | 1937,4                   | 585,2                 | 1291,6                    | 487,7  | 1076,3   | 96           |
| 9             | 29,5       | 228,9     | 154,0             | 51    | 2,0   | 1030,2   | 2273,6    | 41    | 1,6   | 772,6  | 1705,2                   | 515,1                 | 1136,8                    | 429,2  | 947,3    | 108          |
| 10            | 32,8       | 183,4     | 123,4             | 63    | 2,5   | 916,9    | 2023,6    | 51    | 2,0   | 687,7  | 1517,7                   | 458,5                 | 1011,8                    | 382,0  | 843,2    | 120          |
| 11            | 36,1       | 149,7     | 100,7             | 77    | 3,0   | 823,2    | 1816,9    | 61    | 2,4   | 617,4  | 1362,7                   | 411,6                 | 908,4                     | 343,0  | 757,0    | 132          |
| 12            | 39,4       | 124,0     | 83,5              | 91    | 3,6   | 744,3    | 1642,6    | 73    | 2,9   | 558,2  | 1232,0                   | 372,1                 | 821,3                     | 310,1  | 684,4    | 144          |
| 13            | 42,6       | 104,1     | 70,0              | 107   | 4,2   | 676,7    | 1493,4    | 86    | 3,4   | 507,5  | 1120,0                   | 338,3                 | 746,7                     | 281,9  | 622,2    | 156          |
| 14            | 45,9       | 88,3      | 59,4              | 124   | 4,9   | 617,9    | 1363,7    | 99    | 3,9   | 463,4  | 1022,8                   | 309,0                 | 681,9                     | 257,5  | 568,2    | 168          |
| 15            | 49,2       | 75,5      | 50,8              | 143   | 5,6   | 566,3    | 1249,8    | 114   | 4,5   | 424,7  | 937,3                    | 283,1                 | 624,9                     | 235,9  | 520,7    | 180          |
| 16            | 52,5       | 65,1      | 43,8              | 162   | 6,4   | 520,4    | 1148,6    | 130   | 5,1   | 390,3  | 861,4                    | 260,2                 | 574,3                     | 216,8  | 478,6    | 192          |

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

- Tüv certification only valid for loading table above.
- · Loading figures are only valid for static loads.
- Loading figures are only valid for single spans with supports at both ends.
- All static systems, other than single spans, need an individual structural calculation. Please contact a structural engineer or Prolyte for assistance.
- Loading figures are calculated according to and in full compliance with European standards (Eurocode).
- The self-weight of the trusses is already taken into account.
- Loading figures are only valid for the cross sectional orientation of the truss as shown by the icon in the loading table.
- The interaction between bending moment and shear force at the connection point is already taken into account.

alloy alu parts

self weight

- · Truss spans can be assembled from different truss lengths.
- Read the manual before assembling, using and loading the truss.

| Technical Specifica | tions - S40T  |
|---------------------|---------------|
| Types               | Tower truss   |
| Alloy               | EN AW 6082 T6 |
| Main Chords         | 50x4          |
| Diagonal Members    | 25x3          |
| Coupling System     | CCS6          |

Structural data can be found at www.prolyte.com

| 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) |  |  |  |  |  |  |  |

EN - AW 6082 T6

main chords mast sections 50 x 4 mm braces mast sections 25 x 3 mm, 30 x 3 mm coupling system tower CCS6 - Serie

\* To be used with chain hoist only.

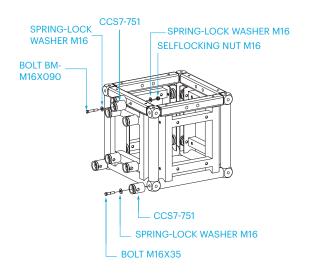
\*\* There is a structural relation between tower height and size, further the applied load and the method of restraining the tower base and top also have its influence on the total loading capacity. All these factors must be taken into consideration when determining the allowable load.

120kg

More information can be found in the Prolyte BlackBook.

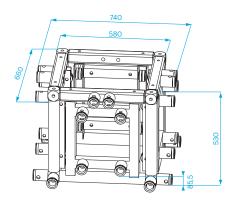


# ST TOWER - HEAVY DUTY TOWER SYSTEM



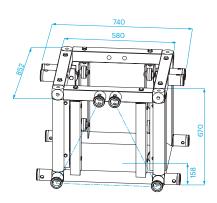
# ST-010

Sleeve block overview accessories



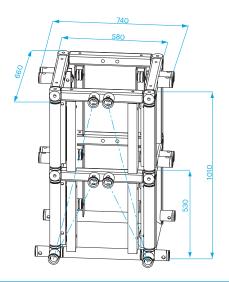
# ST-010-4-52F/36R

Sleeve block for S36R and S52F



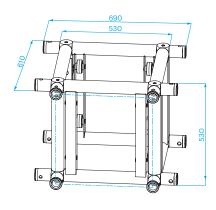
# ST-010-4-52F

Sleeve block for 52F



# ST-010-4-100F/52F

Sleeve block for S52F / S100F / B100RV

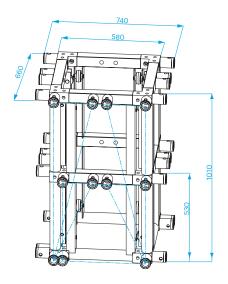


# ST-010-4-52V

Sleeve block for 52V

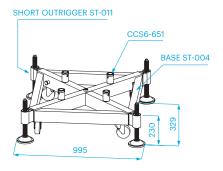






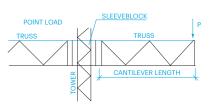
# ST-010-4-100-52

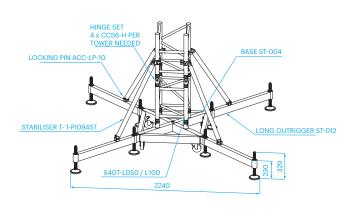
Sleeve block for all 52 and 100 series



Base with ST-011 short outriggers

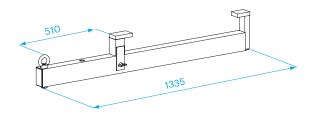
| ST-010 Sleev | ST-010 Sleeve Module - Allowable cantilever load |                |                  |                 |  |  |  |  |  |  |  |  |
|--------------|--|----------------|------------------|-----------------|--|--|--|--|--|--|--|--|
| Length (L)   | S52V/SV<br>P (kg)                                | S52F<br>P (kg) | B100RV<br>P (kg) | S100F<br>P (kg) |  |  |  |  |  |  |  |  |
| 1            | 1565   | 833            | 3773             | 1040            |  |  |  |  |  |  |  |  |
| 1,5          | 1321   | 716            | 3356             | 976             |  |  |  |  |  |  |  |  |
| 2            | 1140   | 626            | 3020             | 918             |  |  |  |  |  |  |  |  |
| 2,5          | 1001   | 556            | 2651             | 865             |  |  |  |  |  |  |  |  |
| 3            | 890  | 472            | 2356             | 816             |  |  |  |  |  |  |  |  |
| 3,5          | 800  | 389            | 2115             | 771             |  |  |  |  |  |  |  |  |
| 4            | 724  | 324            | 1991             | 727             |  |  |  |  |  |  |  |  |
| 4,5          | 660  | 271            | 1744             | 632             |  |  |  |  |  |  |  |  |
| 5            | 605  | 226            | 1598             | 554             |  |  |  |  |  |  |  |  |
| 5,5          | 557  | 188            | 1470             | 487             |  |  |  |  |  |  |  |  |
| 6            | 515  | 153            | 1358             | 429             |  |  |  |  |  |  |  |  |





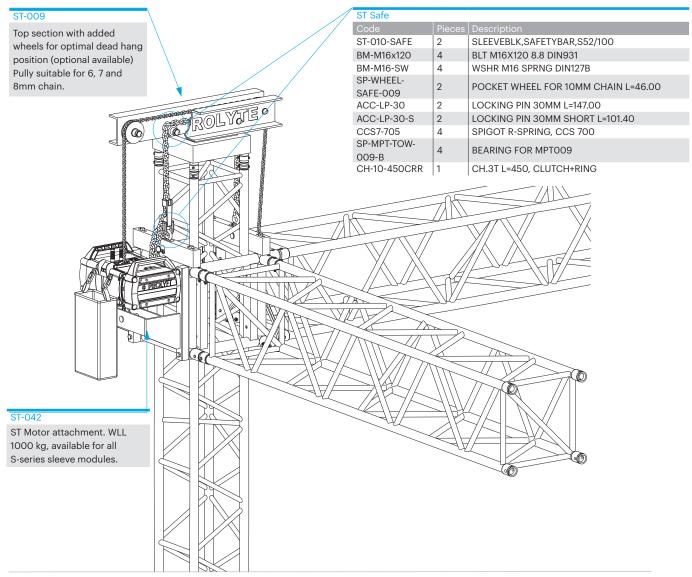
# ST-004

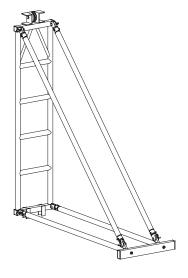
Base with ST-012 long outriggers

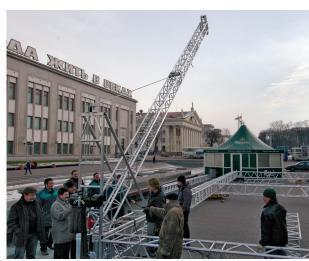


ST Motor attachment. WLL 1000 kg

# ST TOWER - HEAVY DUTY TOWER SYSTEM







#### ST-HELP erecting system

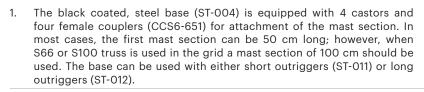
The ST-HELP can be used to erect the ST towers.

Use with a 1ton electrical chain hoist.

Attach to truss by means of a ratchet strap. Read the manual first!

# ST TOWER - HEAVY DUTY TOWER SYSTEM







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 hinge pins on one side. The truss now works as a hinge and can be erected easily. Then locate the remaining hinge pins on the other side to fix the mast into position. Per tower 4 x CCS6-H are needed (hinge set MPT•ST tower). Only use CCS-604ST spigot pins to connect the mast sections, to prevent damage to your sleeve block and the risk of getting "stuck".



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.



 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.



Chain hoists can be attached by use of the motor attachment (ST042). Chain hoists can also be mounted to the grid and sleeve block.



 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 120 cm, weight +/- 120 kg).

#### ST BALLAST FRAME

The ballast frame ST-005 is designed to offer a safe, engineered and easy solution for your ballast requirements. These aluminium frames are simply mounted between the long outriggers of your ST- or MPT base section. Layher screw spindles are placed at the outside for optimum levelling each ballast frame. The system doesn't require any tooling. Standard, pallet-sized water tanks fit on the resulting platforms to create your ballast weight.

# HOW TO USE THE BALLAST FRAME

The ballast frames should be used only in conjunction with long outriggers and stabiliser braces. All ballast frames and ballast should be positioned symmetrically. For any other needed set-ups, please contact our engineering department. The amount of ballast required for a structure is dependent on the outcome of structural analysis. Due to deflection of components not all applied ballast can be activated. The outsides will stay grounded, while the area around the tower will have the tendency to tip or be lifted (see drawing example).

#### ST-005 SPECIFICATIONS

| Weight           | ST-005: 29,15 kg/frame           |
|------------------|----------------------------------|
| Article Code:    | ST-005 St ballast frame 1350kg   |
| Additional items | 2 x ACC-SPIN-LAY/60-60 SCREWJACK |
| required:        | per frame are needed.            |

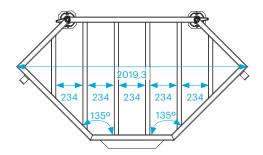










Photo: ModifiC, Russian Federation. Project: Russian telecommunication company "Caravan".

The CT tower is based on C52T mast sections. These mast sections have onesided horizontal bracing to facilitate safe and easy climbing of the towers. C52T truss is constructed of main chords 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 CCS7-703-C52T shortened spigot pin. 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 modules 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 need only purchase the special parts if you wish to expand your truss system with towers. There is a structural relation between tower length and size. Additionally, the applied load and the method of restraining the tower base also contribute to determination of 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.



| CT Series - standard available lengths |  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Meters                                 | Meters 0,5 1,00 1,50 2,00 2,50 3,00 4,00 5,00 Average weight per meter = 16,5 kg.        |  |  |  |  |  |  |  |  |  |  |  |
| Feet                                   | t 1,64 3,28 4,92 6,56 8,20 9,84 13,12 16,4 Average weight in pounds per feet = 11,1 lbs. |  |  |  |  |  |  |  |  |  |  |  |

| C52T - Allowable loading |      |       |                   |       |       |           |           |       |       |        |                          |        |                           |        |                              |              |
|--------------------------|------|-------|-------------------|-------|-------|-----------|-----------|-------|-------|--------|--------------------------|--------|---------------------------|--------|------------------------------|--------------|
|                          |      |       |                   |       |       |           |           |       |       |        |                          |        |                           |        |                              |              |
|                          |      |       |                   |       |       |           |           |       |       |        |                          |        |                           |        |                              |              |
|                          |      |       | Distributed<br>ad |       |       | Centre Po | oint Load |       |       |        | Third Points<br>er Point |        | Fourth Points<br>er Point |        | nd Fifth Points<br>per Point |              |
| S                        |      |       | )L                | DEFLE | CTION | CF        | PL PL     | DEFLE | CTION |        |                          | Q      |                           |        | PL                           | SPAN         |
| m                        | ft   | kg/m  | lbs/ft            | mm    | inch  | kgs       | lbs       | mm    | inch  | kgs    | lbs                      | kgs    | lbs                       | kgs    | lbs                          | total weight |
| 6                        | 19,7 | 933,4 | 628,0             | 21    | 0,8   | 3049,7    | 6730,6    | 17    | 0,7   | 2045,5 | 4514,3                   | 1687,8 | 3724,9                    | 1396,5 | 3082,0                       | 114          |
| 7                        | 23,0 | 798,1 | 537,0             | 28    | 1,1   | 2716,4    | 5995,1    | 23    | 0,9   | 1809,1 | 3992,6                   | 1517,7 | 3349,6                    | 1197,4 | 2642,7                       | 133          |
| 8                        | 26,2 | 696,7 | 468,8             | 37    | 1,5   | 2446,1    | 5398,6    | 30    | 1,2   | 1647,4 | 3635,9                   | 1378,7 | 3042,8                    | 1058,1 | 2335,2                       | 152          |
| 9                        | 29,5 | 613,6 | 412,9             | 47    | 1,8   | 2222,1    | 4904,2    | 38    | 1,5   | 1510,8 | 3334,4                   | 1238,0 | 2732,4                    | 957,8  | 2113,8                       | 171          |
| 10                       | 32,8 | 494,5 | 332,7             | 58    | 2,3   | 2033,2    | 4487,4    | 46    | 1,8   | 1393,7 | 3075,9                   | 1121,9 | 2476,0                    | 873,7  | 1928,3                       | 190          |
| 11                       | 36,1 | 406,3 | 273,4             | 70    | 2,8   | 1871,6    | 4130,6    | 56    | 2,2   | 1292,1 | 2851,6                   | 1024,3 | 2260,6                    | 802,2  | 1770,4                       | 209          |
| 12                       | 39,4 | 339,3 | 228,3             | 83    | 3,3   | 1731,4    | 3821,3    | 67    | 2,6   | 1202,9 | 2654,8                   | 940,9  | 2076,6                    | 740,5  | 1634,3                       | 228          |
| 13                       | 42,6 | 287,1 | 193,2             | 98    | 3,8   | 1608,6    | 3550,2    | 78    | 3,1   | 1124,0 | 2480,6                   | 868,8  | 1917,5                    | 686,7  | 1515,5                       | 247          |
| 14                       | 45,9 | 245,7 | 165,3             | 113   | 4,5   | 1500,0    | 3310,4    | 91    | 3,6   | 1053,5 | 2325,1                   | 805,8  | 1778,3                    | 639,3  | 1410,9                       | 266          |
| 15                       | 49,2 | 212,3 | 142,8             | 130   | 5,1   | 1403,0    | 3096,4    | 104   | 4,1   | 990,1  | 2185,2                   | 750,1  | 1655,4                    | 597,1  | 1317,8                       | 285          |
| 16                       | 52,5 | 184,9 | 124,4             | 148   | 5,8   | 1315,8    | 2904,1    | 119   | 4,7   | 932,8  | 2058,6                   | 700,5  | 1545,9                    | 559,3  | 1234,5                       | 304          |
| 17                       | 55,8 | 162,3 | 109,2             | 167   | 6,6   | 1237,0    | 2730,0    | 134   | 5,3   | 880,5  | 1943,3                   | 655,9  | 1447,6                    | 525,3  | 1159,2                       | 323          |
| 18                       | 59,0 | 143,3 | 96,4              | 187   | 7,4   | 1165,1    | 2571,4    | 150   | 5,9   | 832,7  | 1837,7                   | 615,7  | 1358,8                    | 494,3  | 1090,9                       | 342          |
| 19                       | 62,3 | 127,2 | 85,6              | 209   | 8,2   | 1099,4    | 2426,3    | 167   | 6,6   | 788,6  | 1740,5                   | 579,1  | 1278,0                    | 466,0  | 1028,5                       | 361          |
| 20                       | 65,6 | 113,5 | 76,4              | 231   | 9,1   | 1038,8    | 2292,7    | 185   | 7,3   | 747,9  | 1650,7                   | 545,6  | 1204,1                    | 440,1  | 971,2                        | 380          |
| 21                       | 68,9 | 101,7 | 68,4              | 255   | 10,0  | 982,9     | 2169,2    | 204   | 8,0   | 710,2  | 1567,3                   | 514,8  | 1136,2                    | 416,1  | 918,4                        | 399          |
| 22                       | 72,2 | 91,5  | 61,5              | 280   | 11,0  | 930,9     | 2054,6    | 224   | 8,8   | 674,9  | 1489,6                   | 486,4  | 1073,4                    | 393,9  | 869,4                        | 418          |
| 23                       | 75,4 | 82,5  | 55,5              | 306   | 12,0  | 882,5     | 1947,8    | 245   | 9,6   | 642,0  | 1416,9                   | 460,0  | 1015,2                    | 373,3  | 823,9                        | 437          |

- Tüv certification only valid for loading table above.
- · Loading figures are only valid for static loads.
- Loading figures are only valid for single spans with supports at both ends.
- All static systems, other than single spans, need an individual structural calculation. Please contact a structural engineer or Prolyte for assistance.
- · Loading figures are calculated according to and in full compliance with European standards (Eurocode).
- The self-weight of the trusses is already taken into account.
- · Loading figures are only valid for the cross sectional orientation of the truss as shown by the icon in the loading table.
- The interaction between bending moment and shear force at the connection point is already taken into account.
- Truss spans can be assembled from different truss lengths.
- Read the manual before assembling, using and loading the truss.

| Technical specifications CT Tower |                                  |  |
|-----------------------------------|----------------------------------|--|
| max. height                       | 20,00 m                          |  |
| max. loading capacity*            | 5000 kg**                        |  |
| sleeve block suitable for truss-  | S52F•V, S66R•V, S100F and B100RV |  |
| series                            | (with various sleeve blocks)     |  |
| allov alu parts                   | EN-AW 6082 T6                    |  |

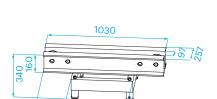
- \* To be used with chain hoist only.
- \*\*There is a structural relation between tower height and size, further the applied load and the method of restraining the tower base and top also have its influence on the total loading capacity. All these factors must be taken into consideration when determining the allowable load.

More information can be found in the Prolyte BlackBook.

| Technical Specifications - C52T |                    |  |
|---------------------------------|--------------------|--|
| Types                           | Tower truss        |  |
| Alloy                           | EN AW 6082 T6      |  |
| Main Chords                     | 60 x 5 mm          |  |
| Diagonal Members                | 30 x 3 / 48 x 3 mm |  |
| Coupling System                 | CCS7               |  |

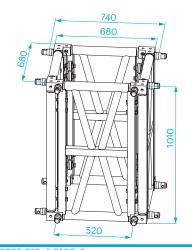
Structural data can be found at www.prolyte.com





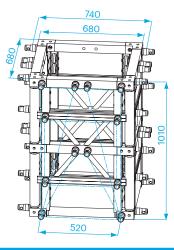
#### C52T-009

Top section. Pully suitable for 8 mm chain or 8 mm steel wire.



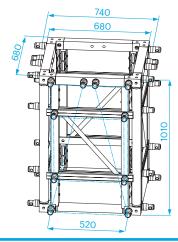
C52T-010-4-B100-0

Sleeve block for B100RV.



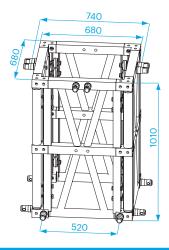
#### C52T-010-4-100-52-0

Sleeve block for B100RV / S52F / S52V /S100F.



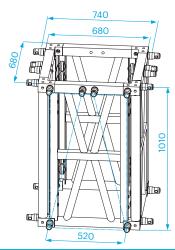
C52T-010-4-100-52V-0

Sleeve block for B100RV / S100F / S52V.



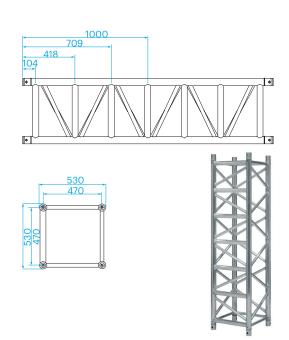
#### C52T-010-4-100-52F-0

Sleeve block for B100RV / S52F / S100F.



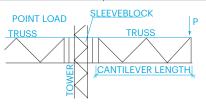
C52T-010-4-B/S100-0

Sleeve block for B100RV / S100F.



# CT-010 Sleeve Block - Allowable cantilever load Length (L) B100RV

| BIOOKV |
|--------|
| P (kg) |
| 3141   |
| 2383   |
| 1911   |
| 1587   |
| 1351   |
| 1169   |
| 1025   |
| 907    |
| 808    |
| 724    |
| 651    |
|        |



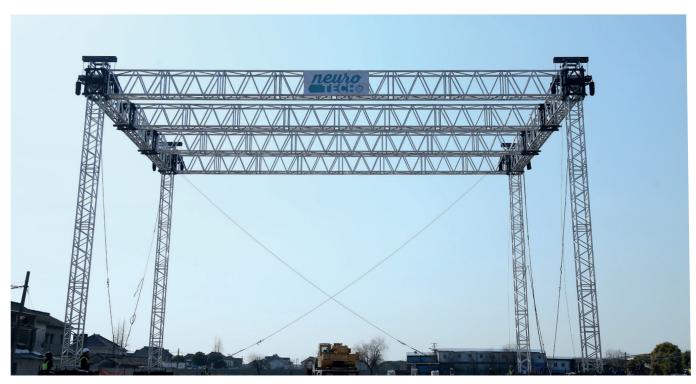


Photo: Neuro Tech Asia

The DT tower is based on D75T mast sections. These mast sections have a four side diagonal webbing with on one side en extra horizontal bracing to facilitate safe and easy climbing of the towers with an appropriate fall protection system. The tower modules are equipped with a pin/fork connection system for easy assembly.

While the D75T towers can be loaded up to 30 tonnes at a height of 20 m, building a complete grid or ground support system requires more elements, designed to absorb substantial loads. Using the M145RV Mammoth truss you can build spans up to 60 metres, still allowing a centre point load of 2000 kg. For use in ground support systems, Prolyte has designed a sleeve block for the D75 tower, the D75T-010-4-M145RV-0, which combines the D75T towers with the M145RV Mammoth truss.

The sleeve block can handle a cantilever point load of 2000 kg at a 10m cantilever. Furthermore, the sleeve block is equipped with a pinned dead hang system, this facilitates a dedicated dead hang position within the tower and increases the tower loading capacity significantly. Sliding the dead hang pin into its integrated holder within the tower is easy, quick and safe.

The base section can be integrated into a 2072 x 2072 scaffolding system and creates integral stability for the tower section, which results in an increase of the tower capacity. It features integrated dedicated attachments for guy wires and lifting points.



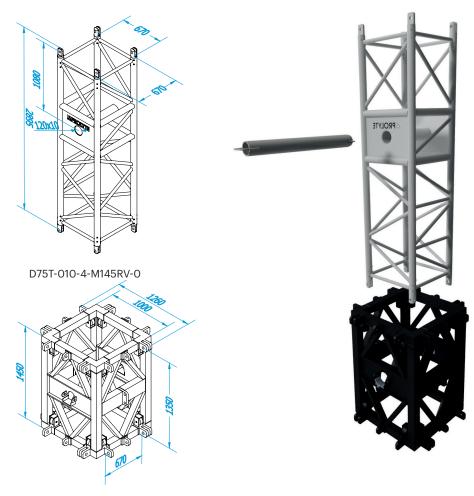




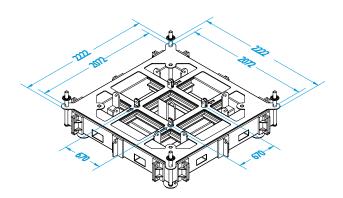


# D75T-L280 DEAD HANG





SR-Base-Top-D75T





| Code                | Description   |
|---------------------|---|
| BOX-M145RV-O        | Box corner for M145RV Truss, steel black coated, self-weight 750 kg   |
| SR-BASE-TOP-D75T    | Base section for D75T tower, steel, black coated, self-weight 1850 kg                                       |
| D75T-010-4-M145RV-0 | Sleeve block for D75T tower, M145RV, attachments, steel, black coated, self-weight 850 kg                   |
| D75T-009-2T         | Top section for D75 tower, suited for single reeved 2-tonne hoists, steel, black coated, self-weight 175 kg |
| D75T-L280 DEAD HANG | Dead hang truss with integrated dead hang position  |
| D75T-010-SAFE       | Dead hang pin for the D75T tower, steel, self-weight 30 kg  |
| D75T-010-ATT        | Lifting bracket for the D75T sleeve block, to accommodate single reeved 2-toone hoist                       |

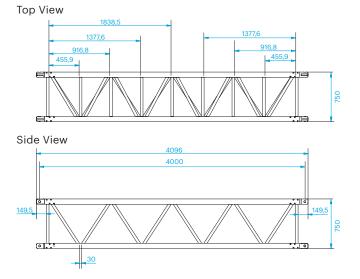


Photo: Neuro Tech Asia

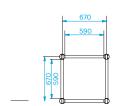
The D75T truss is a continuation of the development of the very heavy-duty truss range. The D75T truss, with outside measurements of 75 x 75 mm and main chords of 80 mm is designed as a truss for special applications where extreme loads or circumstances require extreme strength. The D75T truss can be used for ultra heavy tower systems or in combination with the mammoth truss or Space Roof.

The design is such that it can be used in configurations as a tower or as a span. Besides that, it has four-sided webbing with integrated ladder steps. The smart placing of the pin-fork connection makes it non-orientated and facilitates assembly.















- Tüv certification only valid for loading table above.
- Loading figures are only valid for static loads.
- Loading figures are only valid for single spans with supports at both ends.
- All static systems, other than single spans, need an individual structural calculation. Please contact a structural engineer or Prolyte for assistance.
- Loading figures are calculated according to and in full compliance with European standards (Eurocode).
- The self-weight of the trusses is already taken into account.
- · Loading figures are only valid for the cross sectional orientation of the truss as shown by the icon in the loading table.
- The interaction between bending moment and shear force at the connection point is already taken into account.
- · Truss spans can be assembled from different truss lengths.
- · Read the manual before assembling, using and loading the truss.

| Technical Specifications - D75T |                       |
|---------------------------------|-----------------------|
| Types                           | Tower truss           |
| Alloy                           | EN AW 6082 T6         |
| Main Chords                     | 80 x 10 mm            |
| Diagonal Members                | 40 x 3 mm             |
| Coupling System                 | Pin / Fork connection |

Structural data can be found at www.prolyte.com

| D75T - Standard available Lengths and Codes |                            |           |
|---|----------------------------|-----------|
| Metres                                      | Feet                       | Code      |
| 0.50/1.00 m in 5 mm steps                   | 0.82'/3.28', in 0.2' steps |           |
| 1,00  | 3.28                       | D75T-L100 |
| 2,00  | 6.56                       | D75T-L200 |
| 3,00  | 9.84                       | D75T-L300 |
| 3,85  | 12.62                      | D75T-L385 |
| 4,00  | 13.11                      | D75T-L400 |

Other Lengths on request







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

#### **ADVERTISING TOWERS**

Outdoor advertising is a perfect medium to bring products or messages to the attention of a large group. 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 SUPPORT**

Outdoor advertising towers or billboards that are constructed from truss require 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 advertising tower supports 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 X30, H30 and H40 truss
- Standalone pylons up to 10 m in height constructed from S66 and S52 truss.

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

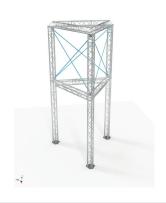


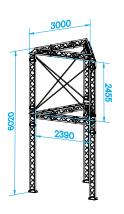


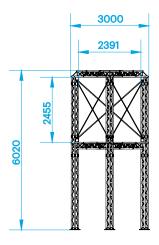


# OUTDOOR ADVERTISING

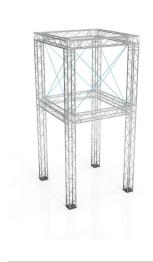
3x3x6

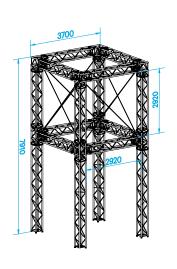


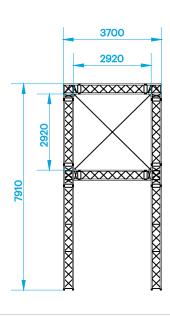




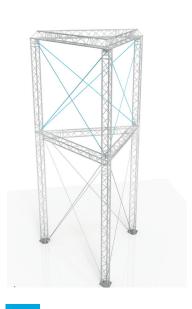
4x4x8

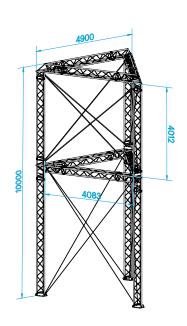






5x5x10





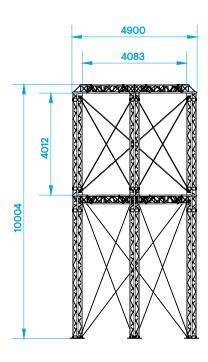






Photo: ProSound, South Africa.

#### **OUTDOOR LED OR VIDEO SCREEN SUPPORT**

With the ever-increasing use of outdoor LED or video screens, Prolyte has engineered the perfect solutions for hanging screens in an efficient and safe manner.

We have developed three standard screen support systems, based on the MPT, ST and CT towers. All constructions are provided with a complete set of calculations. Variations on the standard structures are available on request.

### **RELIABLE SUPPORT**

LED Screen supports 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 screen supports comply with the applicable regulations and standards, including wind force resistance up to wind speeds of  $28\ m/s$ .

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. Prolyte's experienced engineering department is available to assist customers with calculations and specific construction requirements.

### **BASED ON STANDARD TRUSS SYSTEMS**

LED screen supports from Prolyte consist of standard products from both the tower and truss range. There is no need to invest in special parts. Screen supports for a wide range of applications can be configured using your standard rental stock. For more information, please contact Prolyte's Internal Sales.

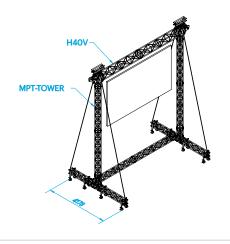
# **EACH SYSTEM HAS UNIQUE REQUIREMENTS**

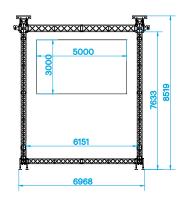


| Technical specifications - Led / vio | deo screen     |
|--------------------------------------|----------------|
| Allowable loading ranging from       | 500 - 5000 kg  |
| Screen surface ranging from          | 6 m² to 60 m²  |
| Max. Windspeed                       | 13,8 to 28 m/s |
| Design Standards                     | EN 13814       |

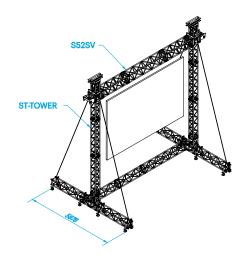
# LED / VIDEO SCREEN - OUTDOOR

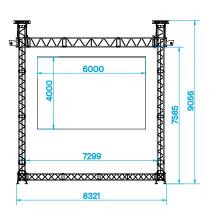
LED Screen 5x3M



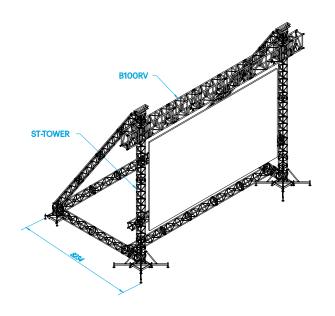


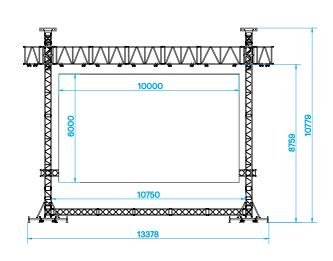
LED Screen 6x4M





LED Screen 10x6M







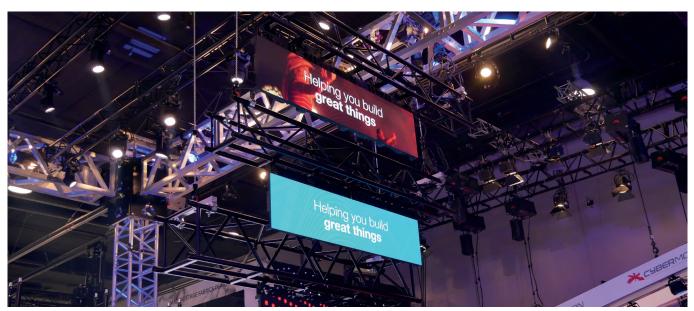


Photo: Prolyte, Prolight + Sound

# LSU SERIES - LED SCREEN SUPPORT UNIVERSAL SERIES

# **MIDDLE BEAM TRUSS**

If you want to fly your LED system, you have the choice of two truss types. All of these trusses are equipped with a middle beam.

- H40V-MB
- S52SV-MB

Both truss types are fully compatible with the regular truss H40V/S52 series and can be combined in one grid.

The extra middle beam in the bottom surface will guarantee safe and easy suspension of your LED wall. Keeping the total load in the middle of your truss section, thereby avoiding unbalanced loading or using the truss in a diamond shape.

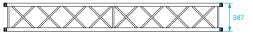
# H40V-MB

H40 MB Series truss is constructed of main chords (48 x 3 mm) and diagonals (20 x 2 mm). Equipped with the CCS6 conical coupling system, the H40 MB truss is fast and easy to assemble. The H40 offers extra strength, next to its flexible application possibilities and is the ideal solution for the event or exhibition market.

# Top view









# Technical Specifications - H40V-MB

| Туре             | H40V-MB       |
|------------------|---------------|
| Alloy            | EN AW 6082 T6 |
| Diagonal Members | 48 x 3 mm     |
| Braces           | 20 x 2 mm     |
| Coupling System  | CCS6          |

# Advantages of H40V-MB

- Fast and easy assembly
- · Lightweight system
- Versatile application
- Cross bracing
- Can be combined with standard H40V
- Load in the centralised in the truss section



| Standard | available | lengths and | Inndes | H40V-MB     |
|----------|-----------|-------------|--------|-------------|
| Stanuaru | available | iengins and | Loues  | 1140 V-1VID |

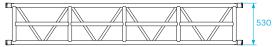
| Metres | Feet | Code         |
|--------|------|--------------|
| 1,00   | 3,28 | H40V-L100-MB |
| 1,50   | 4,92 | H40V-L150-MB |
| 2,00   | 6,56 | H40V-L200-MB |
| 2,50   | 8,20 | H40V-L250-MB |
| 3,00   | 9,84 | H40V-L300-MB |

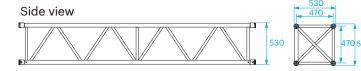
# LED / VIDEO SCREEN - INDOOR

# S52SV-MB

S52-MB Series truss is constructed of main chords (50 x 4 mm) and diagonals (30 x 3 mm). Equipped with the CCS7 conical coupling system, the S52-MB truss is fast and easy to assemble. The S52 truss offers a strong truss with a very high loading capacity. The clever pin orientation guarantees fast and foolproof assembly.

### Top view





| Technical Specifications – S52SV MB series |               |  |
|--|---------------|--|
| Туре                                       | S52SV MB      |  |
| Alloy                                      | EN AW 6082 T6 |  |
| Main Chords                                | 50 x 4 mm     |  |
| Diagonal Members                           | 30 x 3 mm     |  |
| Coupling System                            | CCS7          |  |

# Advantages of S52-MB

- Clever pin orientation
- Fast and easy to assemble
- · Very high loading capacity
- Can be combined with standard S52V or S52SV truss series
- · Load in the centralised in the truss section



|  | s S52SV MB series |      |               |
|--|-------------------|------|---------------|
|  | Metres            | Feet | Code          |
|  | 1,00              | 3,28 | S52SV-L100-MB |
|  | 1,50              | 4,57 | S52SV-L150-MB |
|  | 2,00              | 6,56 | S52SV-L200-MB |
|  | 2,50              | 8,20 | S52SV-L250-MB |
|  | 3.00              | 9.84 | S52SV-L300-MB |

| Z | H40V-MB - | Allowable | Loading | on the | middle | beam |
|---|-----------|-----------|---------|--------|--------|------|

| MAXIMUM ALLOWABLE POINT LOADS |      |           |          |            | T LOADS |
|-------------------------------|------|-----------|----------|------------|---------|
|                               |      | Centre Po | int Load |            |         |
| S                             | PAN  | CPL       |          | DEFLECTION |         |
| m                             | ft   | kgs       | lbs      | cm         | inch    |
| 3                             | 9,8  | 300,0     | 201,9    | 0,7        | 0,28    |
| 4                             | 13,1 | 290,0     | 195,1    | 1,3        | 0,51    |
| 5                             | 16,4 | 230,0     | 154,8    | 2,0        | 0,79    |
| 6                             | 19,7 | 190,0     | 127,8    | 2,9        | 1,14    |
| 7                             | 23,0 | 160,0     | 107,7    | 4,0        | 1,57    |
| 8                             | 26,2 | 130,0     | 87,5     | 5,2        | 2,05    |
| 9                             | 29,5 | 100,0     | 67,3     | 6,5        | 2,56    |
| 10                            | 32,8 | 80,0      | 53,8     | 8,1        | 3,19    |
| 11                            | 36,1 | 60,0      | 40,4     | 9,8        | 3,86    |
| 12                            | 39,4 | 50,0      | 33,6     | 11,6       | 4,57    |
| 13                            | 42,6 | 40,0      | 26,9     | 13,7       | 5,39    |
| 14                            | 45,9 | 40,0      | 26,9     | 15,8       | 6,22    |
| 15                            | 49,2 | 30,0      | 20,2     | 18,2       | 7,17    |
| 16                            | 52,5 | 30,0      | 20,2     | 20,7       | 8,15    |
| 17                            | 55,8 | 20,0      | 13,5     | 23,4       | 9,21    |
| 18                            | 59,0 | 20,0      | 13,5     | 26,2       | 10,31   |
| 19                            | 62,3 | 20,0      | 13,5     | 29,2       | 11,50   |
| 20                            | 65,6 | 10,0      | 6,7      | 32,3       | 12,72   |

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

Without deflection limit

| S52SV MB - Allowable Loading on the middle beam |      |  |           |            |      |
|---|------|--|-----------|------------|------|
|   | ¥    | THE PARTY NAMED IN COLUMN TWO IS NOT THE PARTY N |           |            |      |
|   |      | MAXIMUM ALLOWABLE POINT LOADS  |           |            |      |
|   |      | Centre P   | oint Load |            |      |
| S   | PAN  | CPL  |           | DEFLECTION |      |
| m   | ft   | kgs  | lbs       | cm         | inch |
| 3   | 9,8  | 250,0  | 168,2     | 0,5        | 0,20 |
| 4   | 13,1 | 250,0  | 168,2     | 0,9        | 0,35 |
| 5   | 16,4 | 250,0  | 168,2     | 1,5        | 0,59 |
| 6   | 19,7 | 250,0  | 168,2     | 2,1        | 0,83 |
| 7   | 23,0 | 250,0  | 168,2     | 2,9        | 1,14 |
| 8   | 26,2 | 250,0  | 168,2     | 3,7        | 1,46 |
| 9   | 29,5 | 250,0  | 168,2     | 4,7        | 1,85 |
| 10  | 32,8 | 230,0  | 154,8     | 5,9        | 2,32 |
| 11  | 36,1 | 190,0  | 127,8     | 7,1        | 2,80 |
| 12  | 39,4 | 150,0  | 100,9     | 8,4        | 3,31 |
| 13  | 42,6 | 130,0  | 87,5      | 9,9        | 3,90 |
| 14  | 45,9 | 110,0  | 74,0      | 11,5       | 4,53 |
| 15  | 49,2 | 90,0   | 60,6      | 13,2       | 5,20 |
| 16  | 52,5 | 80,0   | 53,8      | 15,0       | 5,91 |
| 17  | 55,8 | 70,0   | 47,1      | 16,9       | 6,65 |
| 18  | 59,0 | 60,0   | 40,4      | 19,0       | 7,48 |
| 19  | 62,3 | 50,0   | 33,6      | 21,1       | 8,31 |
| 20  | 65,6 | 50,0   | 33,6      | 23,4       | 9,21 |

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

Without deflection limit



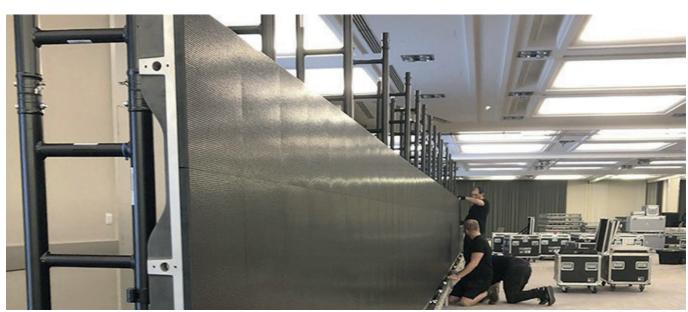


Photo: IPS

#### LSU SERIES - LED SCREEN SUPPORT UNIVERSAL SERIES

#### **Ground Stack LED Screen Support System**

Building your LED screen from ground level is now easier than ever. No matter what type of screen you have, Prolyte offers a universal solution - the LED Stack System. This system is a combination of a base-unit, connection bar and ladder truss, which creates a very stable system to support your LED screens in various configurations. You're provided with flexibility in both height and width.

# A side-entry clamp

With the universal connection plate mounted, it is possible to mount almost any type of LED panel quickly and easily.





### Connection bars and adjustable feet

By using longer connection bars, you can easily extend your screen with another row of panels. Using the adjustable feet in the front and back of the base unit, you can safely level the system, so your screen is completely straight.



#### Technical specifications - Ground Stack LED Screen Support

All items are standard coated black (RAL9005)

Base unit: 50 x 50 mm profile

Coupling system: CCS6

Adjustable M12 spindles

H30L Ladder truss with 30 x 3mm straight bracing

Available ladder truss lengths

Available connection bar lengths

- PC-LSU-30L-L050-RAL9005
- PC-LSU-30L-L075-RAL9005
- PC-LSU-30L-L100-RAL9005
- PC-LSU-CONNB- L100-RAL9005, 1 m length
- PC-LSU-CONNB- L150-RAL9005, 1,5 m length
- PC-LSU-CONNB- L200-RAL9005, 2 m length
- Available LED panel adapters

PC-LSU-ADAP-03-RAL9005, panel adapater for panels with M8, M10 and M12 bolts

- Ballast needed
- 2 m high screen 17 kg/m
- 4 m high screen 130 kg/m



Photo: Prolyte

# **LSU SERIES - LSU RAISED**

The adjustable leg is a support which enables to start your LED wall from a higher level than ground level. The leg will rest on the ground base and can be attached to the ladder truss with the standard led panel adapter.

The leg support is adjustable in height between the 90 and 130cm height and can be adjusted every 10cm. The SM-A-LP16 locking pin with its selflocking mechanism

will secure the leg. The principle with the connection bars is equal to the base unit.

The leg will come standard in a powdercoated black color.

#### Connection bars and adjustable feet

- By using the adjustable feet in the front and back of the base-unit, you can safely level the system, so your screen is completely straight.
- By using longer connection bars, you can easily extend you screen with another row of panels.
- Using the adjustable feet in the front and back of the base-unit, you can safely level the system, so your screen is completely straight.

Adjustable leg support:

• PC-LSU-SUPP-90130-RAL9005









Photo: Prolyte

### LSU SERIES - LSU CURVED

Prolyte has extended the LSU series with a range of adapters to create curved screens. The angled connections bars will be the base of your LED wall and are available in a length of 100 and 150cm. They also can be used in combination with the straight versions.

The connection between the led panel and the ladder truss will be made by the LED panel adapter with special angled plates. The plates re available in 2.5, 5, 7.5 and 10 degrees and can be ordered separately from the adapter. The plates will fit most of all available brands.

Other options will be available on request.

| Angled connection l               | bars:  |
|-----------------------------------|--|
| PC-LSU-CONNB-L100-<br>025-RAL9005 | LED STACK CONNECTION BAR LENGTH<br>100CM, 2,5DGR RAL9005 |
| PC-LSU-CONNB-L150-<br>025-RAL9005 | LED STACK CONNECTION BAR LENGTH<br>150CM, 2,5DGR RAL9005 |
|                                   |  |

PC-LSU-CONNB-L150-050-RAL9005 • LED STACK CONNECTION BAR LENGTH 150CM, 5DGR RAL9005

> LED STACK CONNECTION BAR LENGTH 100CM, 7,5DGR RAL9005

• LED STACK CONNECTION BAR LENGTH

100CM, 5DGR RAL9005

075-RAL9005 PC-LSU-CONNB-L150-075-RAL9005

PC-LSU-CONNB-L100-

PC-LSU-CONNB-L100-

050-RAL9005

• LED STACK CONNECTION BAR LENGTH 150CM, 7,5DGR RAL9005

PC-LSU-CONNB-L100-100-RAL9005 • LED STACK CONNECTION BAR LENGTH 100CM, 10DGR RAL9005

• LED STACK CONNECTION BAR LENGTH 150CM, 10DGR RAL9005



# Angled adapter plates:

| PC-LSU-ADAP-02-<br>RAL9005    | 160 | TRUSS TO LED PANEL ADAPTER, NO     PLATE RAL9005 |
|-------------------------------|-----|--|
| PC-LSU-ADAP-04-<br>025RAL9005 | 160 | • LED PANEL MOUNTING PLATE 2,5DGR<br>RAL 9005    |
| PC-LSU-ADAP-04-<br>050RAL9005 | 160 | LED PANEL MOUNTING PLATE 5DGR     RAL 9005       |
| PC-LSU-ADAP-04-<br>075RAL9005 | 160 | LED PANEL MOUNTING PLATE 7,5DGR     RAL 9005     |
| PC-LSU-ADAP-04-<br>100RAL9005 | 160 | LED PANEL MOUNTING PLATE 10DGR     RAL 9005      |



Photo: Studio Berar



# **Roof System**

Prolyte offers innovative, solidly engineered solutions for constructing complex structures or roof systems for any event. Whether your event is an intimate social gathering or a massive outdoor concert, your stage design should be robust, stylish, and ready to work in any type of environment; regardless of the size or demands of your application, Prolyte offers what you need. With Prolyte you are asserted of a long-term solution next to a cost-efficient investment.

# Consistent quality

Prolyte are highly regarded throughout all sectors of the events and entertainment markets, a reputation earned by consistently delivering safe and solid constructions that adapt to all types of applications. In addition, Prolyte users enjoy unparalleled support with comprehensive technical assistance and training. Through product selection to build-up, training is an integral part of the delivery procedure.

# A solid investment

Prolyte offers tower and roof structures in various sizes and shapes. Additionally, custom constructions can be requested. All Prolyte structures are designed, engineered and manufactured to the latest standards in the industry. Setting high standards in stage design, Prolyte are renowned for their easy set-up, short building times, compact transport size and high priority to safety. Where safety for performers and audiences is paramount, Prolyte are a natural choice.



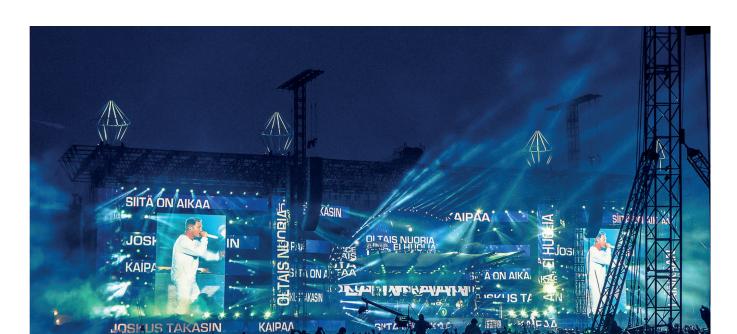


Photo: Starlight AB, project: Cheek at Helsinki Olympic Stadium

### **PROVEN QUALITIES**

Prolyte are based on standard truss, providing economic packages. Our Roof Systems are modular and versatile; each roof has several set-up possibilities. They are quick and easy to assemble, saving you building time and labour costs. They have compact loading volumes, saving on shipping and storage costs. Prolyte are integrated in our complete range of truss; you only need to buy the special parts, upgrading or downsizing your roof system as required.

This approach has two main advantages:

- You can invest in a roof system on a step-by-step basis
- Out of season, the components can be added to your regular truss rental stock, thereby increasing the economic value of the system as a whole

### **DESIGN CRITERIA**

In developing design and construction procedures at Prolyte, customer needs and overall satisfaction comes first. Our worldwide reputation has been built by providing systems that are ideally suited to the needs and requirements of the user. Providing comprehensive training and build-up procedures gives us access to constant feedback from the market, which in turn helps direct our design and construction methodology. Equally important, products and designs only work when they are proven in daily practice. Having extensive hands-on experience makes our engineers aware of the practical implications of their engineering work. This fact is evident in the design of Prolyte Road proof. Tested. Safe. Approved. Loading data - as featured in this brochure - are based on uniformly distributed loads (UDL). Exact loading data will depend on position and weight per point. Please make sure to check the exact loading data before you apply any load.

Prolyte roof systems are designed and manufactured in compliance with:

EN 1990 / ECO Basics of structural design

EN 1991 / EC1 Actions on structures

EN 1993 / EC3 Design of steel structures EN 1999 / EC9 Design of aluminum structures

**EN-13782** Temporary structures - Tents – Safe:

EN-13814 Fairground and amusement park

machinery and structures - Safety

**EN-12385** Steel wire ropes



Photo: Interstage, The Netherlands

#### **CHALLENGE US**

The specific products shown here may not be suited to your particular needs. Working with creative teams can be very challenging at times, but Prolyte is always receptive to new ideas. We welcome opportunities to be put to the test. Although often it seems like we have to make the impossible happen, we always succeed in finding a fitting solution. And, what is more, we never compromise on what we know is important. All of our custom roofs are designed following the same strict design criteria, thereby offering consistent quality and safety.

### STANDARD ROOF SYSTEM COMPONENTS

- Standard truss
- Standard tower systems (MPT, ST or CT)
- Special parts (such as gable parts or tent and keder profiles)
- · Additional canopy or side-walls

#### **DEFINITION**

Mobile roof structures are predominantly used in temporary applications. They are designed and constructed to facilitate transportation and regular building and dismantling sessions at different locations.

#### **APPLICATIONS**

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

#### Examples include:

- Product presentations
- · Theatre shows, musicals and operas
- Concerts, festivals and fairgrounds
- Exhibitions and trade shows
- Celebrations and parties
- · Conventions and large-scale meetings.

#### **STANDARDS**

Most countries apply no specific standards in reference to temporary building constructions. When defined, they usually comply with the local building regulations and therefore to standards on permanent constructions. This is a constant source of problems and discussion. Prolyte has chosen to comply to the strictest regulations that apply.

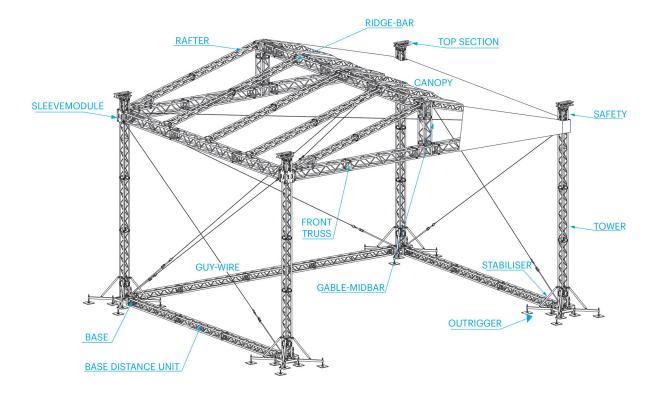
#### WHAT IS TEMPORARY?

How do we define temporary? Days? Weeks? Months? The publication "Temporary Demountable Structures" mentions "generally no more than 28 days". But what if this is in the middle of storm season? How temporary is a stage build for seasonal use? What are the risks of building a stage when rough weather is forecast? By what measure can we predict future circumstances? Each engineer should be aware of the possible risks and dangers beforehand, and should make decisions based on a case-by-case evaluation.

### **NEED TO KNOW MORE?**

Please go to www.prolyte.com for more technical information on Roof Systems. In the Prolyte BlackBook (technical background information) we provide more indepth technical knowledge on roof and stage structures and their application.





#### **ANCHOR**

Fixed point used to withstand the tension force from the guywires, which absorb the horizontal loading of the roof system. The anchor should be tested or certified.

#### **BALLAST**

The amount of weight applied to a roof structure to withstand wind forces.

#### **BASE**

The tower base section transfers the vertical (axial) load from the tower to the ground. A number of screw jacks on the outriggers allow for exact horizontal placement of the base section, and enable exact vertical placement of the towers.

### BASE DISTANCE UNIT (BASE-BRACERBAR)

Compression braces between two base sections - absorbing the horizontal forces, which result from internal guy-wires.

#### CANOPY

The actual roof cover. Canopies should have accurate water drainage characteristics in order to prevent water traps. In most countries canopies have to comply with fire protection regulations.

#### **GABLE**

Front view of a triangular roof structure.

#### **GABLE-MIDBAR**

The central vertical part in the gable, connecting the ridge-bar ends to the centre of the horizontal gable beam.

#### **GUY-WIRE**

Steel wire bracing added to make the entire system rigid, and to transfer horizontal loads from the top of the system to the base. As a result, the towers will undergo an axial loading and no bending forces. The use of polyester ratchet straps as tensioning devices is prohibited by fire safety regulations in some countries.

#### RAFTER

A structural member of the roof system designed to carry the canopy loading.

#### RIDGE-BAR

The highest horizontal part of a triangular shaped roof.

#### SAFETY

A double suspension point that should be used to replace the chain of the hoist, once the roof is at trim height.

### **SLEEVE MODULE**

Corner or connection piece that fully encloses the tower. The sleeve module has a set of internal guidance wheels that prevent friction of metal to metal in its vertical movement.

#### SCRIM

Special fabric or cloth used to close the sides or sound wings of the roof structure. The scrim is often painted or printed with special decorations. Scrim should be fire-retardant, have good acoustic characteristics and be wind permeable.

### STABILISER/OUTRIGGER

Bracing part of a single tube that connects the tower to the outrigger, thereby shortening the buckling length of the tower.

#### TOWER ('MAST', 'COLUMN')

The tower or mast section transmits the roof weight from the top-section into the base.

#### **TOP SECTION**

The highest part of the mast, transferring the forces from the chain hoist to the tower.

# DICTIONARY OF ROOF SYSTEM COMPONENTS

#### **CANOPY**

#### Material

All Roof systems have canopies and side-walls made of fire-retardant PVC material. This material is known as M2 (France) or B1 (Germany DIN 4102).

#### Colour

Standard canopies are grey on the outside and black on the inside. Other colours are available on request.

#### Weight

The average weight of the canopy cover is 0,8 kg/m<sup>2</sup>. For the larger roof structures, the canopy is delivered in separate pieces in order to facilitate handling and transportation.

#### Assembly

Ratchet straps are used to tension the canopy. These ratchets are attached to the canopy using a pipe, which fits in the side of the canopy. This method guarantees even and tight fitting of the canopy over the truss structure in order to facilitate rainwater drainage. The position and resulting tension from the ratchets is calculated as an extra load in the overall calculations.

#### Side-walls

The side-walls can be closed with the use of black scrim. Please make sure to use the right of factor in order to guarantee sufficient wind permeability. For most roofs the side-walls have to be removed above certain wind speeds.

#### Options

- Transparent or coloured canopies and side-walls
- Built-in rain drainage system
- Repair kit
- Flight cases

#### DC

- Get regular on-site weather information updates
- Use wind sensors to measure local/on-site wind speeds (place them at 10 m. height min.)
- Inform your crew beforehand on safety procedures in case of emergency situations like unexpectedly high wind speeds (see BSR E1.21- draft; Operations Management Plan).
- · Use approved fire retardant canopies and scrims only
- · Use scrim with cf factor reference only
- Make sure towers are exactly centred (out of plumb ratio should be less than 0,5%)
- · Apply guy-wires at all times
- · Make sure your construction is properly grounded

#### **BALLAST**

Ballast is the additional weight needed to prevent the roof structure from being blown away as a result of wind forces. Ballast also protects against wind pressures, sliding or other hazards. Whatever type of ballast you use, it is essential that the ballast be fixed to the towers at all times. The required ballast weight can be different for each tower. Often the front towers of the structure require higher weights than the middle or rear towers.

The choice of the proper type of ballast is not easy. Environmental conditions are of great importance. The nature of soil, as well as access to ballast materials, commonly water or sand - and transportation availability are determining factors. Possible ballast types include:

- Water tanks
- Concrete plates
- Guy-wires in combination with anchors
- Steel tanks
- Sand bags

#### **CHAIN HOISTS**

Chain hoists are used to raise and lower the entire roof structure. The use of electrical chain hoists guarantees an even movement of the main grid. We recommend slow travel of the whole structure; the lifting speed of the hoist should not exceed 4m/minute. All hoists must comply with Protection Class IP 54. Hoists should be disconnected and replaced by safeties once the grid is at trim height. For optimum safety we strongly advise use a load monitoring system for large or complex roof structures.

#### DO NOT

- Lift your roof to trim height without proper ballast provisions applied
- Use material in poor condition
- Allow loads to be suspended before knowing their exact weight and size
- Exceed the limits of the structural report
- Build roof structures on unstable grounds
- · Leave your roof system suspended from a hoist
- Lift a roof to trim height when wind speed surpasses 7,9 m/second





Photo: Giovanni Eekels Verhuur BV, The Netherlands

#### SYSTEM DESCRIPTION

The Arc Roof is a fixed construction. The 6 x 4 m and 8 x 6 m are based on H30D inward-curving trusses that are mounted to side masts. Special corners connect the arches to the main grid. The 10 x 8 Arc Roof is based of H30V Curved trusses that are mounted to the side mast. Boxcorners and special attachments connect the arches to the main grid. Different configurations are made possible by simply changing the arches. The arched trusses have a keder profile on top for fitting the canopy.

| ROOF STRUCTURE |           |         |   |  |
|----------------|-----------|---------|---|--|
|                | Towers    |         | Portal structure, MPT base sections and H30V truss            |  |
|                | Main grid | 6x4;8x6 | H30V truss and welded corners; H30D Arc sections              |  |
|                |           | 10 x 8  | H30V truss and arc sections; boxcorners + special attachments |  |

# **TECHNICAL SPECIFICATIONS - ARC ROOF**

| Dimension             | • 10 x 8 m (32'9" x 26'3")<br>• 8 x 6 m (26'3" x 19'8")<br>• 6 x 4 m (19'8" x 13'1") |
|-----------------------|--|
| Loading capacity      | • 10 x 8 m approx. 2450 kg<br>• 8 x 6 m approx. 1950 kg<br>• 6 x 4 m approx. 1800 kg |
| Total weight          | • 10 x 8 m approx. 1200 kg<br>• 8 x 6 m approx. 800 kg<br>• 6 x 4 m approx. 600 kg   |
| Transportation volume | • 10 x 8 m approx. 32 m³ • 8x 6 m approx. 20 m³ • 6 x 4 m approx. 16 m³              |
| Max. wind speed       | 28,4 m/second, 63,3 mph  |

### **BASIC TRUSSING**

Tower - MPT base sections H30V truss

Grid - H30D arched truss - with keder profile or H30V arched truss - with keder profile

#### **INCLUDING**

- Tension gear and steel wires
- Comprehensive building manual
- Structural report

### Advantages

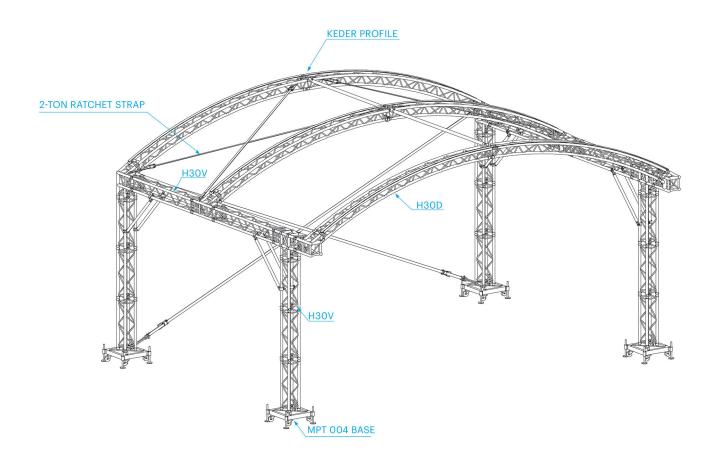
- Versatile application
- Easy to handle, quick setup
- · Significant loading capacity
- · Ideal for smaller events
- Extra options available

# OPTIONS

| Canopy        | side, back and top   |
|---------------|--|
| Canopy colour | standard: outside grey, inside black (other colours possible)  |
| Soundwings    | Optional (yes, 1000 kg)  |
| Ballast       | several possibilities on request depending on construction. For example, water tanks, Concrete blocks. |
| Staging       | Prolyte stage elements, EasyFrame B or Probeam combined with a scaffolding stage                       |
| Groundring    | reduces ballast loading  |



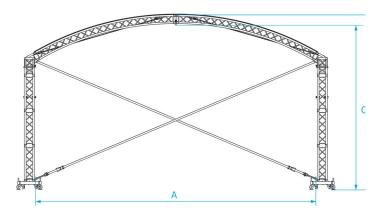
Photo: Live Systems Ltd, UK. project: Tall Ships Races Festival in the Shetland Islands







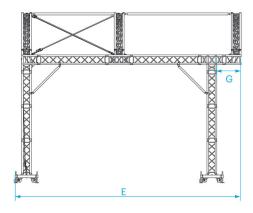
# Front view - 8 x 6 m Arc



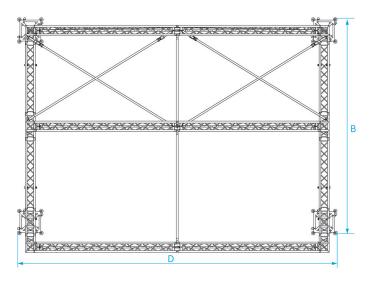
#### ARC ROOF SYSTEM

| 10 x 8 m | 4 Arcs |
|----------|--------|
| 8 x 6 m  | 3 Arcs |
| 6 x 4 m  | 2 Arcs |

# Side view - 8 x 6 m Arc



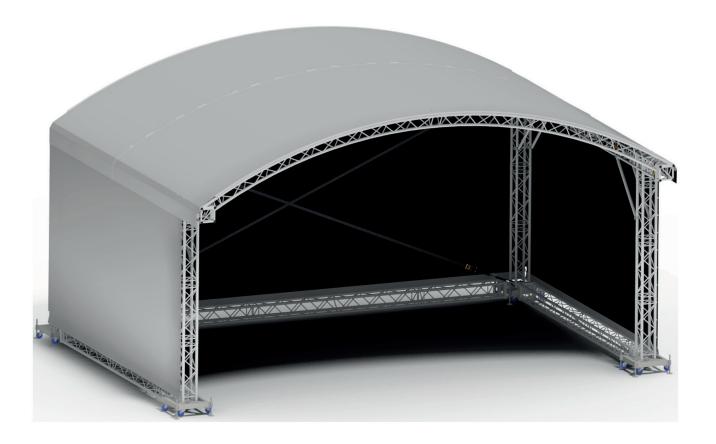
# Top view - 8 x 6 m Arc



| ARC ROOF SYSTEM Inside Overall |               |         |        |        |        |        |        |         |        |        |        |        |        |        |       |
|--------------------------------|---------------|---------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|--------|-------|
| Stage meas                     | surements     |         | A      | E      | 3      |        | С      |         | )      | E      |        |        | F      | 0      | }     |
| 10 x 8 m                       | 32'9" x 26'3" | 10,20 m | 33'46" | 7,14 m | 23'43" | 6,00 m | 19'69" | 10,79 m | 35'40" | 8,50 m | 27'89" | 6,32 m | 20′73″ | 0,71 m | 2'33" |
| 8 x 6 m                        | 26'3" x 19'8" | 8,04 m  | 26'38" | 5,14 m | 16'86" | 4,72 m | 15′49″ | 8,60 m  | 28'22" | 6,50 m | 21′33″ | 4,99 m | 16′37″ | 0,71 m | 2'33" |
| 6 x 4 m                        | 19'8" x 13'1" | 6,04 m  | 19'82" | 3,43 m | 11′25″ | 4,45 m | 14'60" | 6,60 m  | 21'65" | 4,78 m | 15'68" | 4,72 m | 15′49″ | 0,71 m | 2'33" |



Photo: DWR Distribution South Africa; project: MGG at Comic-Con Africa







The Arc-HT roof is based on the new HT tower, the grid is build out of H40V truss and the new HD-Boxcorner which optimizes the strength of the system. The arches are made out of H40V, with compression members in-between. The HT tower simplifies the dead hanging of the system, with its dead hang pin instead of a steel chain.

| ROOF STRUCTURE |  |
|----------------|--|
| Towers         | 4x HT-Towers, Mast Sections of H30V<br>Truss |
| Main grid      | H40V Truss + H40V Arc Sections               |

# TECHNICAL SPECIFICATIONS - ARC ROOF

| Dimensions            | 12 x 10 m (39'4" x 32'9")<br>10 x 8 m (32'9" x 26'3"),<br>8 x 6 m (26'3" x 19'8")                             |
|-----------------------|---|
| Loading capacity      | 12 x 10 m approx. 5360 g<br>10 x 8 m approx. 4720 kg<br>8 x 6 m approx. 2940 kg                               |
| Total weight          | 12 x 10 m approx 1950 kg<br>10 x 8 m approx. 1700 kg<br>8 x 6 m approx. 900 kg                                |
| Transportation volume | 12 x 10 m approx. 40 m <sup>3</sup><br>10 x 8 m approx. 32 m <sup>3</sup><br>8x 6 m approx. 24 m <sup>3</sup> |
| Max. wind speed       | 28,4 m/second, 63,3 mph   |

Consult Prolyte for up-to-date information on loading capacity, wind speed, total weight and transportation volume in line with the latest regulations.

#### **INCLUDING**

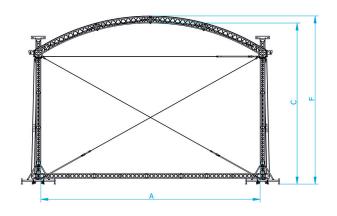
- Tension gear and steel wires
- Structural report

#### Advantages

- · Easy to handle, quick setup
- High loading capacity
- · Simplyfied dead hang system
- All standard components
- Extra options

| Canopy        | Side with keders, back and top  |
|---------------|---|
| Canopy colour | Standard: outside grey, inside black (other colours possible)   |
| Soundwings    | Optional (yes, loading 1000 kg each)  |
| Ballast       | Several possibilities on request<br>depending on construction. For<br>example, water tanks, concrete blocks |
| Staging       | Prolyte stage elements, Probeam combined with a scaffolding stage   |
| Groundring    | Yes, reduces ballast loading  |

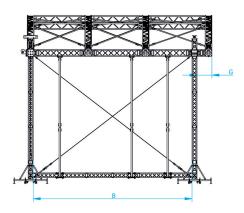
# Front view - 10 x 12 m Arc



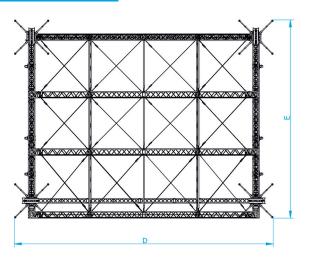
# ARC - HT ROOF SYSTEM 10 x 8 m 4 Arcs

| 10 X 0 111 | + A103 |
|------------|--------|
| 8 x 6 m    | 3 Arcs |
| 6 x 4 m    | 2 Arcs |

# Side view - 10 x 12 m Arc



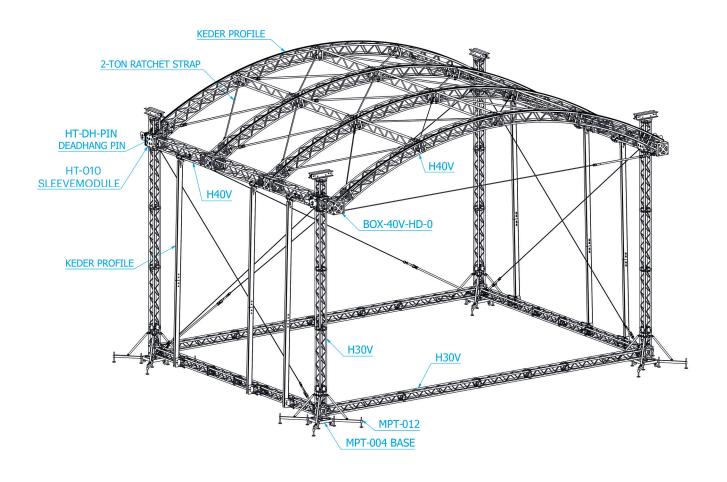
# Top view - 10 x 12 m Arc



| ARC-HT ROOF SYSTEM Inside Overall |                |         |         |        |         |        |         |         |         |         |         |        |         |        |        |
|-----------------------------------|----------------|---------|---------|--------|---------|--------|---------|---------|---------|---------|---------|--------|---------|--------|--------|
| Stage meas                        | surements      | Д       | ١       | E      | 3       | (      | С       | D       |         | E       |         |        | F       | G      | }      |
| 12 X 10 m                         | 39'37" x 32'9" | 12,63 m | 14'44'' | 9,15 m | 30′00′′ | 9,29 m | 30'48'' | 14,91 m | 48'93"  | 11,44 m | 36'09'' | 9,70 m | 31′82′′ | 0,86 m | 2′82′′ |
| 10 x 8 m                          | 32'9" x 26'3"  | 10,63 m | 34'88"  | 7,14 m | 23'43"  | 6,00 m | 19'69'' | 10,79 m | 35'40'' | 8,50 m  | 27′89′′ | 6,32 m | 20′73′′ | 0,71 m | 2'34'' |
| 8 x 6 m                           | 26'3" x 19'8"  | 8,63 m  | 28'31"  | 5,84 m | 19′17′′ | 6,26 m | 20′54′′ | 10,91 m | 35′79′′ | 8,12 m  | 26'64'' | 6,66 m | 21'85"  | 1,36 m | 4'46'' |









**ROOF STRUCTURE** 

the latest regulations.

The three standard sizes: 8 x 6m (in the picture), 6x4m and 4x4m, are constructed of H30V multi-purpose truss elements. The structure stands on special designed steel base sections with integrated rigging points. Due to its size you can put the ballast immediatly on top of the base. It also has the possibility to use them in combination with ground anchors.

|                        | I   |
|------------------------|---|
| Towers                 | H30V truss  |
| Main grid              | H30V truss  |
| TECHNICAL SPECIFICATIO | NS - ARC ROOF   |
| Dimensions             | 8 x 6 m (23'3" x 19'8")<br>6 x 4 m (19'8" x 13'1")<br>4 x 4 m (13'1" x 13'1") |
| Loading capacity       | 80 kg p/mtr<br>250 kg PA load   |
| Total weight           | 500 kg  |
| Transportation volume  | 16 m³   |
| Max. wind speed        | 28,4 m/second, 63,3 mph   |

Consult Prolyte for up-to-date information on loading capacity, wind speed, total weight and transportation volume in line with

Different configurations can be achieved by just adding standard truss elements, which makes it easy to change the size.

All available standard structures are calculated according to the latest European regulation for temporary structures. Other sizes will be available on request.

#### Advantages:

- Easy to handle
- Standard components
- · Ideal for smaller events

| Back          | Side and up  |
|---------------|--|
| Canopy colour | Standard: outside grey, inside black (other colours possible)  |
| Soundwings    | N/A  |
| Ballast       | Several possibilities on request depending on construction. For example, water tanks concrete blocks |
| Staging       | Prolyte stage elements Probeam combined with a scaffolding stage, or a Layher stage.                 |
| Groundring    | N/A  |







Photo: DWR distribution, South Africa. Project: Proudly Bidvest Charity Walk

A self climbing tower-based structure with a sloping roof toward the back of the stage, the Flat Roof is remarkably easy to build. Mainly based on standard trusse modules, the roof is available in two different sizes to provide a number of building options. The Flat roof can be considered as an entry-level system, which can easily be expanded to a MPT Roof system.

#### ROOF STRUCTURE

| 4 x MPT-tower, mast sections of H30V truss          |  |  |  |  |
|---|--|--|--|--|
| H40V and H40L truss                                 |  |  |  |  |
| TECHNICAL SPECIFICATIONS - FLAT ROOF                |  |  |  |  |
| 10 x 8 m (32'9" x 26'3")<br>8 x 6 m (26'3" x 19'8") |  |  |  |  |
|   |  |  |  |  |

| Dimension             | 8 x 6 m (26'3" x 19'8")                             |
|-----------------------|---|
| Loading capacity      | 10 x 8 m approx. 4720 kg<br>8 x 6 m approx. 2940 kg |
| Total weight          | 10 x 8 m approx. 1600 kg<br>8 x 6 m approx. 1400 kg |
| Transportation volume | 10 x 8 m approx. 16 m³<br>8x 6 m approx. 16 m³      |
| Max. wind speed       | 28,4 m/second, 63,3 mph                             |

#### **INCLUDING**

- Tension gear and steel wires
- Structural report

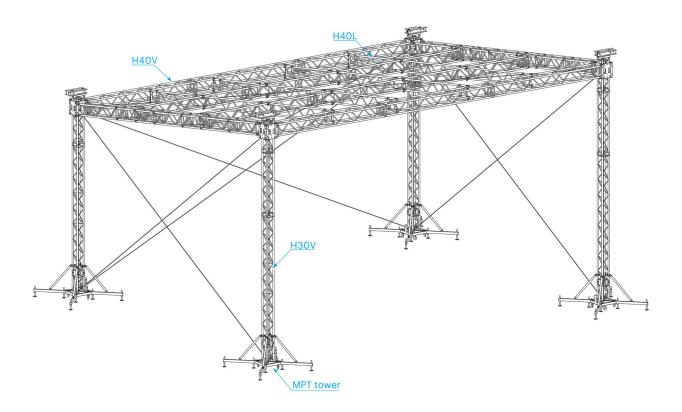
#### Advantages:

- Easy to handle, quick setup
- Ideal for smaller events
- Extra options available

| Canopy colour | Standard: outside grey, inside black (other colours possible)   |
|---------------|---|
| Soundwings    | Optional (yes, 1000 kg)   |
| Ballast       | Several possibilities on request<br>depending on construction. For<br>example, water tanks concrete<br>blocks |
| Staging       | Prolyte stage elements Probeam combined with a scaffolding stage, or a Layher stage.                          |

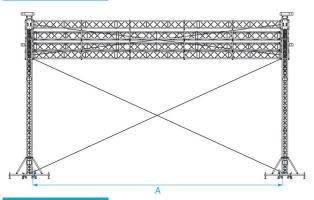


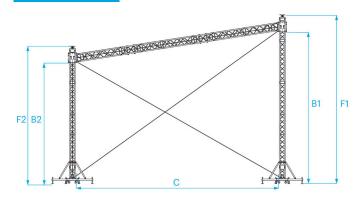
Photo: DWR distribution, South Africa. Project: Proudly Bidvest Charity Walk

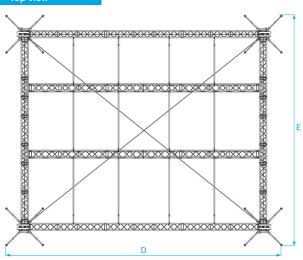












| FLAT ROOF SYSTEM |                    | Inside        | Inside  |       |        |       |        |        |        |       |
|------------------|--------------------|---------------|---------|-------|--------|-------|--------|--------|--------|-------|
|                  | Stage measurements |               | A       |       | B1     |       | B2     |        | С      |       |
|                  | 10 x 8 m           | 32'9" x 26'3" | 10,15 m | 33′3″ | 7,24 m | 23′6″ | 6,08 m | 19′11″ | 7,78 m | 25′6″ |
|                  | 8 x 6 m            | 26'3" x 19'8" | 8,15 m  | 26′7″ | 6,02 m | 19′9″ | 5,16 m | 16′11″ | 5,80 m | 19′0″ |

| FLAT ROOF SYSTEM   |               | Outside |       |            |       |        |       |        |       |
|--------------------|---------------|---------|-------|------------|-------|--------|-------|--------|-------|
| Stage measurements |               | D       |       | E          |       | F1     |       | F2     |       |
| 10 x 8 m           | 32'9" x 26'3" | 12,44 m | 40′9″ | 10,07<br>m | 33′0″ | 8,06 m | 26′5″ | 7,06 m | 23′1″ |
| 8 x 6 m            | 26'3" x 19'8" | 8,44 m  | 47′4″ | 8,09 m     | 26'6" | 8,06 m | 26′5″ | 7,06 m | 23′1″ |



Photo: DWR distribution, South Africa. Project: Proudly Bidvest Charity Walk

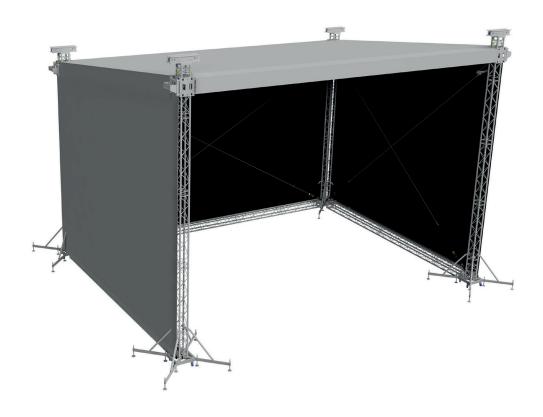








Photo: BVRent

#### SYSTEM DESCRIPTION

The CLT Roof is a tower-based structure with a curved roof. It is based on the standard MPT Roof, which can easily be transformed into a CLT Roof simply by adding a different set of top units.

The CLT roof top section is based on arched H30D truss with integrated keder profiles to mount the canopy. These arches are supported by special frames which are mounted on the basic grid trusses.

#### **INCLUDING**

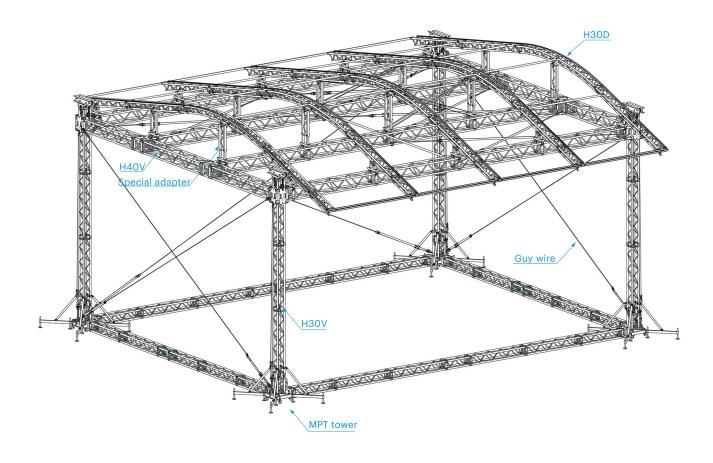
- Tension gear and steel wires
- · Structural report

| ROOF STRUCTURE         |  |  |  |  |  |
|------------------------|--|--|--|--|--|
| Towers                 | 4 x MPT-tower  |  |  |  |  |
| Main grid              | H40V and H30D truss                                      |  |  |  |  |
| TECHNICAL SPECIFICATIO | NS - CLT ROOF  |  |  |  |  |
| Dimensions             | 12 x 10 m, 12 x 8 m,<br>(39'4" x 32'9"), (39'4" x 26'3") |  |  |  |  |
| Loading capacity       | 12 x 10 m approx. 2470kg<br>12 x 8 m approx. 2470kg      |  |  |  |  |
| Total weight           | approx. 1900 kg / 4188 lbs                               |  |  |  |  |
| Transportation volume  | approx. 32 m³ / 1130 cu. ft.                             |  |  |  |  |
| Max. wind speed        | 28,4 m/second, 63,3 mph                                  |  |  |  |  |

| OPTIONS       |  |
|---------------|--|
| Canopy        | Side, back and top   |
| Canopy colour | Standard: outside grey, inside black (other colours possible)                          |
| Soundwings    | Optional (yes, 1000 kg)  |
| Ballast       | Several possibilities on request from 1,5 - 3 ton per tower depending on construction  |
| Staging       | Prolyte stage elements, EasyFrame B or<br>Probeam combined with a scaffolding<br>stage |
| Cantilever    | Yes (included)   |

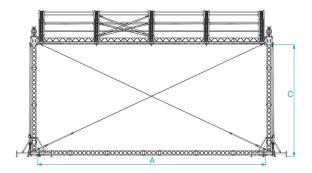


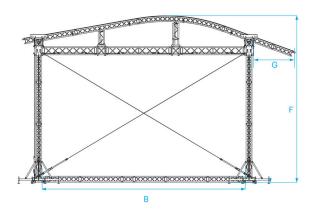
Photo: Impact Production Services (IPS) at Glamis Castle

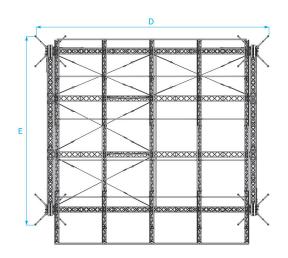








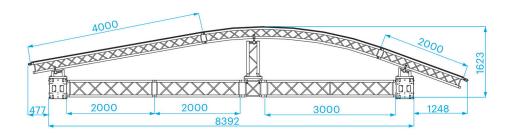




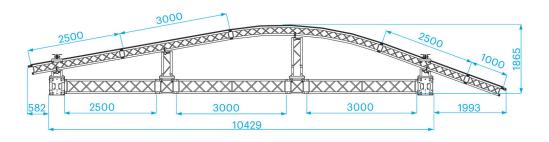
| CLT ROOF  | SYSTEM             | inside  |        |         |        |        |        | _      |       |  |
|-----------|--------------------|---------|--------|---------|--------|--------|--------|--------|-------|--|
| Stage mea | Stage measurements |         | Α      |         | В      |        | С      |        |       |  |
| 12 x 10 m | 39'4" x 32'9"      | 12,53 m | 41′11″ | 9,73 m  | 31′92″ | 6,13 m | 20′11″ |        |       |  |
| 12 x 8 m  | 39'4" x 26'3"      | 12,53 m | 41′11″ | 7,69 m  | 25′23″ | 6,13 m | 20′11″ |        |       |  |
| CLT ROOF  | SYSTEM             | overall |        |         |        |        |        |        |       |  |
| Stage mea | Stage measurements |         | D      |         | Е      |        | F      |        | G     |  |
| 12 x 10m  | 39'4" x 32'9"      | 13,11 m | 43'01" | 10,30 m | 33′79″ | 8,00 m | 26′25″ | 2,19 m | 7′19″ |  |
| 12 x 8 m  | 39'4" x 26'3"      | 13,11 m | 43'01" | 8,30 m  | 27′23″ | 8,00 m | 26′25″ | 1,45 m | 4′76″ |  |



# CLT ROOF 12 x 8 m



# CLT ROOF 12 x 10 m



all measurements in mm





Photo: Install Profi, Russia

The MPT Roof is a self climbing tower-based structure with a pitched roof, a design which guarantees optimum strength. Primarily configured from standard truss modules, the MPT Roof is available in two different sizes. However, the unrivalled flexibility of the system affords nearly 40 calculated building varieties or setup possibilities for your MPT Roof.

At Prolyte, we are aware that every season and every event brings different demands, and accordingly we have designed the MPT Roof to accommodate an extraordinary range of applications.

#### **INCLUDING**

- Tension gear and steel wires
- Structural report

| ROOF STRUCTURE                      | ROOF STRUCTURE  |  |  |  |  |  |  |  |
|-------------------------------------|---|--|--|--|--|--|--|--|
| Towers                              | 4 x MPT-tower, mast sections of H30V truss            |  |  |  |  |  |  |  |
| Main grid                           | H30D and H40V truss                                   |  |  |  |  |  |  |  |
| TECHNICAL SPECIFICATIONS - MPT ROOF |   |  |  |  |  |  |  |  |
| Dimensions                          | 12 x 10 m (39'4" x 32'9")<br>10 x 8 m (32'9" x 26'3") |  |  |  |  |  |  |  |
| Loading capacity                    | 12 x 10 m approx. 3950 kg<br>10 x 8 m approx. 4500 kg |  |  |  |  |  |  |  |
| Total weight                        | 12 x 10 m approx. 2400 kg<br>10 x 8 m approx. 2100 kg |  |  |  |  |  |  |  |
| Transportation volume               | 12 x 10 m approx. 40 m³<br>10 x 8 m approx. 32 m³     |  |  |  |  |  |  |  |
| Max. wind speed                     | 28.4 m/s. 63.3 mph                                    |  |  |  |  |  |  |  |

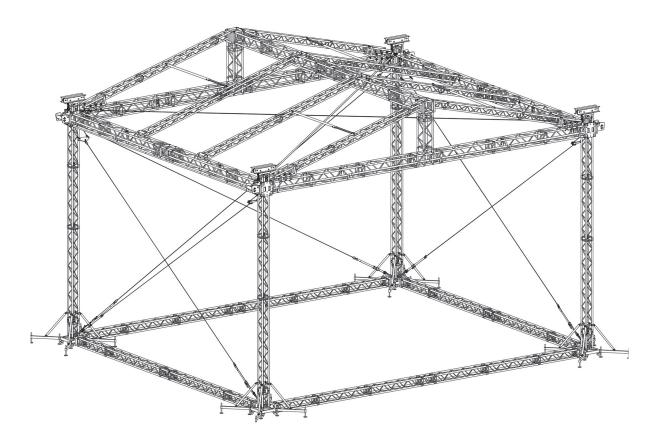
# Advantages:

- Designed to offer optimum strength
- Versatile applications
- Extra options available

| Canopy colour | Standard: outside grey, inside black (Different colours available on request)    |
|---------------|--|
| Soundwings    | Optional (yes / loading 1000 kg each)  |
| Ballast       | Several possibilities on request depending on construction and wind speed        |
| Staging       | Prolyte stage elements, EasyFrame B or Probeam combined with a scaffolding stage |
| Cantilever    | Yes  |

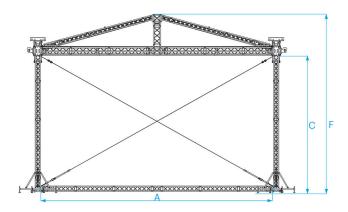


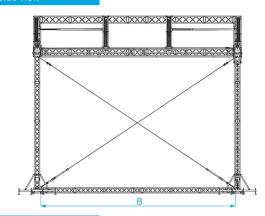
Photo: Metro Productions; Project: Homegrown festival in New Zealand

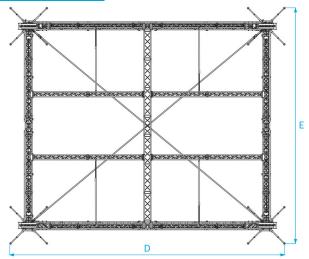




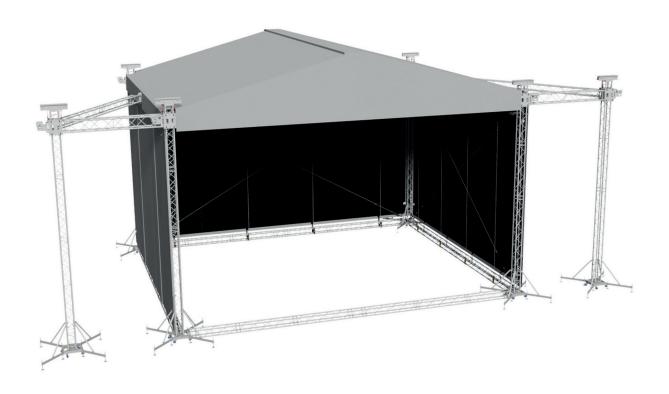




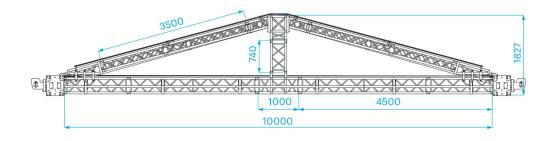




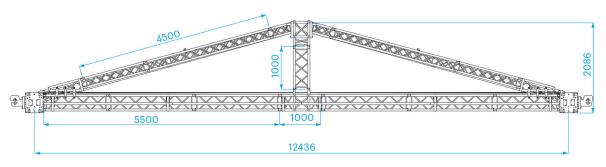
| MPT ROOF SYSTEM    |               | Inside Overall |        |         |        |        |        |         |        |         |        |        |        |  |
|--------------------|---------------|----------------|--------|---------|--------|--------|--------|---------|--------|---------|--------|--------|--------|--|
| Stage measurements |               | A              |        | В       | В      |        | С      |         | D      |         | E      |        | F      |  |
| 12 x 10 m          | 39'4" x 32'9" | 12,15 m        | 39'86" | 10,15 m | 33′30″ | 7,21 m | 23'65" | 12,72 m | 41′73″ | 10,72 m | 35′17″ | 9,35 m | 30'67" |  |
| 10 x 8 m           | 32'9" x 26'3" | 10,15 m        | 33′30″ | 8,15 m  | 26′73″ | 7,21 m | 23'65" | 10,72 m | 35′17″ | 8,72 m  | 28'60" | 9,10 m | 29'85" |  |



# MPT ROOF 10 x 8 m



# MPT ROOF 12 x 10 m



all measurements in mm





Photo: Profi, Ukraina

#### SYSTEM DESCRIPTION

The ST Roof is a self climbing tower-based structure with a pitched roof, a design that inherently offers optimum strength. The larger ST Series offers flexible possibilities for creating stage dimensions up to  $20 \times 14$  m.

| ROOF STRUCTURE |   |
|----------------|---|
| Towers         | 6 x ST-tower, mast sections of S40T truss |
| Main grid      | S52SV truss and H40V truss                |

| TECHNICAL SPECIFICATIONS - ST ROOF |   |  |  |  |  |  |  |
|------------------------------------|---|--|--|--|--|--|--|
| Dimension                          | 20 x 14 m (65'7" x 45'11")<br>18 x 14 m (59'0" x 45'11")<br>16 x 14 m (52'5" x 45'11")<br>12 x 10 m (39'4" x 32'9")   |  |  |  |  |  |  |
| Loading capacity                   | 20 x 14 m approx. 4700 kg<br>18 x 14 m approx. 8000 kg<br>16 x 14 m approx. 9800 kg<br>12 x 10 m approx. 11000 kg   |  |  |  |  |  |  |
| Total weight                       | 20 x 14 m approx. 5400 kg<br>18 x 14 m approx. 5200 kg<br>16 x 14 m approx. 5000 kg<br>12 x 10 m approx. 3600 kg  |  |  |  |  |  |  |
| Transportation volume              | 20 x 14 m approx. 110 m <sup>3</sup><br>18 x 14 m approx. 110 m <sup>3</sup><br>16 x 14 m approx. 110 m <sup>3</sup><br>12 x 10 m approx. 70 m <sup>3</sup> |  |  |  |  |  |  |
| Max. wind speed                    | 28,4 m/second, 63,3 mph   |  |  |  |  |  |  |

Consult Prolyte for up-to-date information on loading capacity, wind speed, total weight and transportation volume in line with the latest regulations.

# INCLUDING

- · Tension gear and steel wires
- Structural report

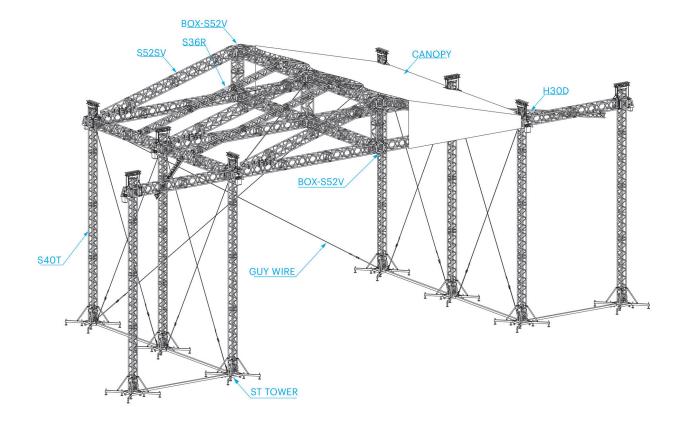
#### Advantages:

- Flexible possibilities for stage dimensions Designed to offer optimum strength
- Extra options available

| Canopy        | Side, back and top   |
|---------------|--|
| Canopy colour | Standard: outside grey, inside black (other colours possible)                          |
| Soundwings    | Optional (yes, loading 2000 kg each)   |
| Ballast       | Several possibilities on request from 1 - 7 ton per tower depending on construction    |
| Staging       | Prolyte stage elements, EasyFrame B or<br>Probeam combined with a scaffolding<br>stage |



Photo: Showtech, Dubai

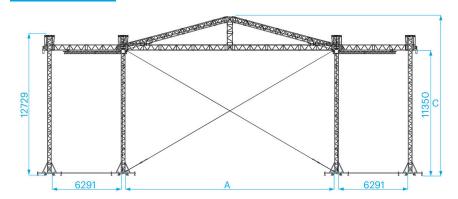




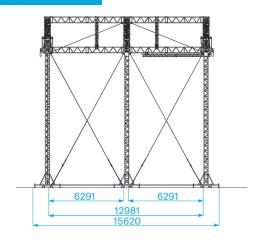


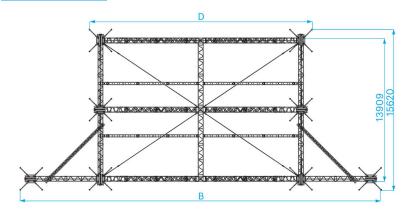


# Front view

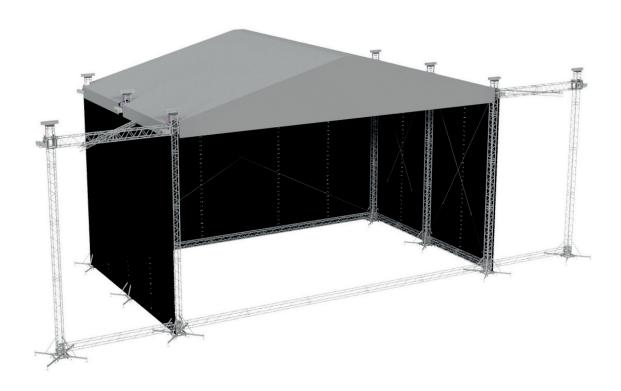


# Side view

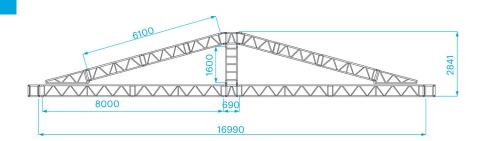




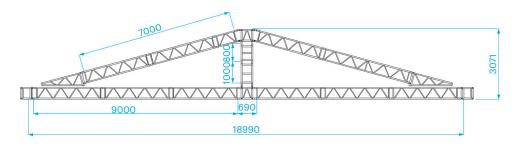
| ST-ROOF SYSTEM     |                |         |       |        |        |         |       |         |       |
|--------------------|----------------|---------|-------|--------|--------|---------|-------|---------|-------|
| Stage measurements |                | A       |       | В      |        | С       |       | D       |       |
| 20 x 14 m          | 65'6" x 45'9"  | 20,99 m | 68'8" | 37,0 m | 108′2″ | 14,70 m | 48'2" | 23,62 m | 77′4″ |
| 18 x 14 m          | 59'0" x 45'9"  | 18,99 m | 62'3" | 35,0 m | 114′8″ | 14,70 m | 48'2" | 21,62 m | 70′9″ |
| 16 x 14 m          | 52′5″ x 4 5′9″ | 16,99 m | 55′7″ | 33,0 m | 121′3″ | 14,70 m | 48'2" | 19,62 m | 64'3" |



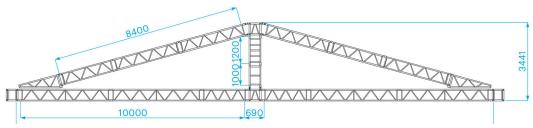
# ST ROOF 16 x 14 m



# ST ROOF 18 x 14 m



# ST ROOF 20 x 14 m



all measurements in mm





Photo: Photo: Tom Jones, Holkham Hall, the UK

Based on H40V truss, the Polygon XII roof system offers a multi-functional and cost-effective solution. The straight truss lengths convert into a curved "tunnel" type roof with the addition of special corner sections. Side stage areas and the cantilever construction are integrated in the design. The back wall is based on standard kedar profile and can be easily removed in case of bad weather conditions.

The complete roof structure is based on a metric system and fully compatible with a Layher sub-structure and integrated Layher adapters. The Polygon roof system comes in four different sizes apart from the width of the stage, also the depth can be varied. This makes the roof system adaptable to

any type of event.

To convert from one size to the other, only some straight length parts need to be added, all corner parts remain the same. This solution minimizes the amount of parts needed and offers maximum flexibility. E.g. for a 12x14 roof size you start with 1,5 m truss lengths. By adding additional 0,25 or 0,50 m length, you can convert your roof into the 14 x 14 m or 16 x 14 m size respectively. By adding the 0,25 m. length to the 16x14 m size, you can have the 18 x 14 m roof size.

#### **INCLUDING**

- Tension gear and steel wires
- Structural report

| ROOF STRUCTURE                              |     |  |  |
|---|-----|--|--|
| Towers                                      | N/A |  |  |
| Main grid H40V truss                        |     |  |  |
| TECHNICAL SPECIFICATIONS - POLYGON XII ROOF |     |  |  |

| TECHNICAL SPECIFICATIONS - POLYGON XII ROOF |   |  |  |  |
|---|---|--|--|--|
| Dimension                                   | 18 x 14 m (59'0" x 45'11")<br>16 x 14 m (52'5" x 45'11")<br>14 x 14 m (45'11" x 45'11")<br>12 x 14 m (39'5" x 45'11") |  |  |  |
| Loading capacity                            | 18 x 14 m approx. 7530 kg<br>16 x 14 m approx. 6920 kg<br>14 x 14 m approx. 6990 kg<br>12 x 14 m approx. 8420 kg      |  |  |  |
| Total weight (Layher stage included)        | 18 x 14 m approx. 17000 kg<br>16 x 14 m approx. 16500 kg<br>14 x 14 m approx. 15500 kg<br>12 x 14 m approx. 15000 kg  |  |  |  |
| Transportation volume                       | 18 x 14 m approx. 120 m³ 16 x 14 m approx. 110 m³ 14 x 14 m approx. 100 m³ 12 x 14 m approx. 100 m³                   |  |  |  |
| Max. wind speed                             | 28,4 m/second, 63,3 mph   |  |  |  |

Consult Prolyte for up-to-date information on loading capacity, wind speed, total weight and transportation volume in line with the latest regulations.

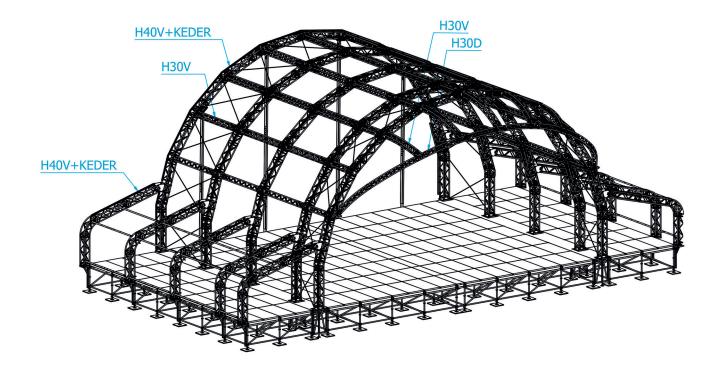
#### Advantages

- Easy to convert in four sizes
- · Minimum amount of parts needed
- Width and depth can be varied
- Fully compatible with a Layher sub-structure

| Canopy        | Side, back and top   |
|---------------|--|
| Canopy colour | Standard: outside grey, inside black (other colours possible)                        |
| Soundwings    | Yes / loading 2000 kg each   |
| Ballast       | Several possibilities details on request. For example, water tanks, concrete blocks  |
| Staging       | Prolyte stage elements, Probeam combined with a scaffolding stage, or a layher stage |



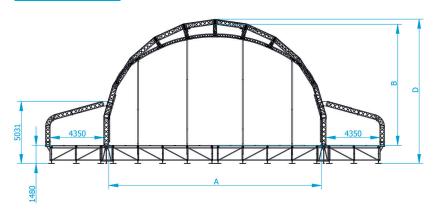
Photo: Tom Jones, Holkham Hall, the UK



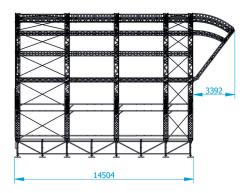


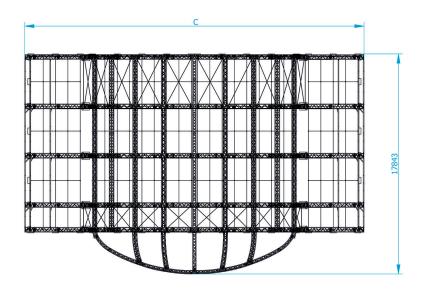


# Front view



# Side view





| POLYGON XII  | ROOF SYSTEM       |         |         |         |         |         |         |         |         |
|--------------|-------------------|---------|---------|---------|---------|---------|---------|---------|---------|
| Stage measur | ements            | Α       |         |         | В       |         | С       | С       |         |
| 12 x 14 m    | 39′37′′ x 45′93′′ | 13,22 m | 43′37′′ | 8,26 m  | 27′10′′ | 23,49 m | 77"07"  | 10,13 m | 33′23′′ |
| 14 x 14 m    | 45′93′′ x 45′93′′ | 15,72 m | 51′57′′ | 9,08 m  | 29'79'' | 25,99 m | 85′27′′ | 10,97 m | 35′99′′ |
| 16 x 14 m    | 52′49′′ x 45′93′′ | 17,22 m | 56′50′′ | 9,81 m  | 32′19′′ | 27,49 m | 88′58′′ | 11,70 m | 38'39'' |
| 18 x 14 m    | 59'06' x 45'93''  | 18,22 m | 59′78′′ | 10,58 m | 34′71′′ | 29,49 m | 96′75   | 12,48 m | 40′94′′ |

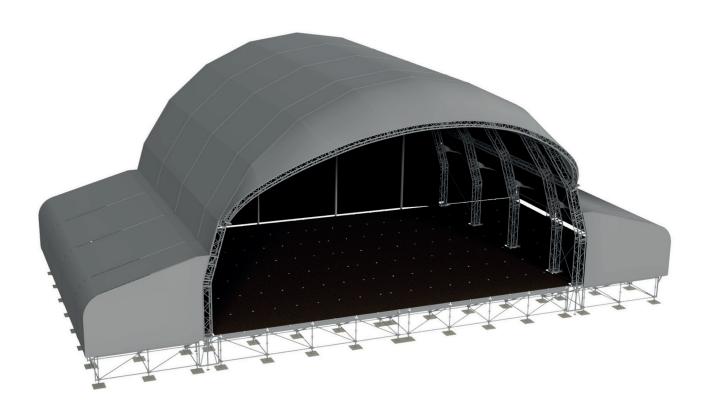






Photo: Interstage, The Netherlands Project: MBM MartyBrugmansMusic, Concert At Sea, Renesse, The Netherlands

code regulations.

The Giant ARC Roof is a tower-based structure that is constructed using 3-to-5 arches. Straight truss sections, interconnected with bottom hinges and topside spreader plates, create the arch needed over the complete span. Two steel wires per span absorb horizontal forces caused by the loading. The arches are connected to standard ST towers.

· Structural report

#### **INCLUDING**

Tension gear and steel wires

| ROOF STRUCTURE   |  |  |  |  |
|--|--|--|--|--|
| Towers   | ST tower (16 x 12 m) or CT tower (20 x 16 m)           |  |  |  |
| Main grid  | S52SV truss (16 x 12 m) or<br>B100RV truss (20 x 16 m) |  |  |  |
| TECHNICAL SPECIFICATIONS - GIANT ARC ROOF                            |  |  |  |  |
| Dimension  | 16 x 12 m (52′5″ x 39′5′′)                             |  |  |  |
| Loading capacity (UDL)   | 16 x 12 m approx. 5500 kg                              |  |  |  |
| Total weight   | 16 x 12 m approx. 5000 kg                              |  |  |  |
| Transportation volume  | 16 x 12 m approx. 110 m³                               |  |  |  |
| Max. wind speed  | 28,4 m/second, 63,3 mph                                |  |  |  |
| Consult Prolyte for up-to-date information on loading capacity, wind |  |  |  |  |

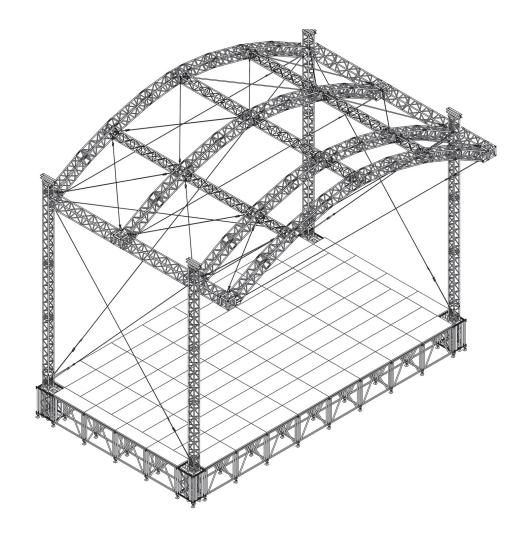
speed, total weight and transportation volume in line with the Euro-

- Advantages: Extra options available
- Curved design

| Canopy  | Side, back and top  |  |
|---|---|--|
| Canopy colour   | Standard: outside gre<br>(other colours possible  | · ·  |
| Soundwings  | Yes / loading 2000 kg   | g each   |
| Ballast   | Several possibilities de example, water tanks,  |  |
| Staging   | Prolyte stage element<br>bined with a scaffoldi<br>or a layher stage                        | ·  |
| Prolyft hoist<br>(16x14 Giant Arc Roof )<br>and accessories | 4x PAE-<br>1000DC-0030<br>4x PAE-A-FC1000<br>2x PLA-33-20<br>4x PLA-30-10<br>1x PAE-C8DC-10 | 1x PLA-41-001<br>4x PAE-A-50-010<br>2x PLA-30-20<br>1x PLA-34-02 |



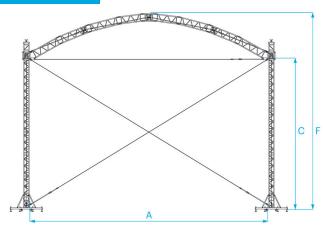
Photo: Interstage; Project: Olympische Huldiging Assen

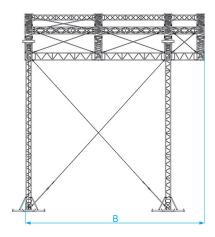


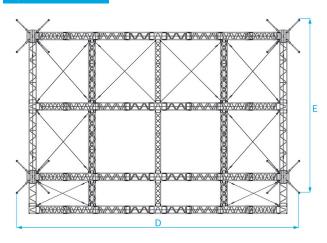












| GIANT ARC          | ROOF SYSTEM   | Inside  |       |         |       |         |       |
|--------------------|---------------|---------|-------|---------|-------|---------|-------|
| Stage meas         | surements     | А       |       | В       |       | С       |       |
| 16 x 12 m          | 52′5″ x 39′4″ | 16,30 m | 53′5″ | 12,09 m | 39′7″ | 11,34 m | 37′2″ |
| GIANT ARC          | ROOF SYSTEM   | Overall |       |         |       |         |       |
| Stage measurements |               | D       |       | E       |       | F       |       |
| 16 x 12 m          | 52′5″ x 39′4″ | 18,93 m | 62′1″ | 11,62 m | 38′1″ | 13,47 m | 44'2" |



Photo: Interstage, The Netherlands, Project: Bevrijdingsfestival Overijssel, Zwolle, The Netherlands









Photo: PROmontaje, Caracas, Venezuela

The XXL roof system is based on 9 CT towers, of which one is a stack tower underneath the back span. The roof has main grid based on B100RV truss and a pitched roof structure based on B52SV truss, which is the standard S52SV truss adapted with a main chord of 60 x 6 mm. Layher adapters guarantee a flawless integration of the towers and the stage.

The main roof comes in 3 basic measurements 30 m x 20 m, 25 m x 20 m, 20 m x 20 m,(different measurements on request) realising a clearance of 14m between the stage and the main grid. The loading capacity of the roof is approx. 30 ton, uniformly distributed along the roof.

#### **INCLUDING**

- Tension gear and steel wires
- Structural report

| ROOF STRUCTURE |                                   |
|----------------|-----------------------------------|
| Towers         | CT towers                         |
| Main grid      | B100RV main grid, B52SV as raster |
|                |                                   |

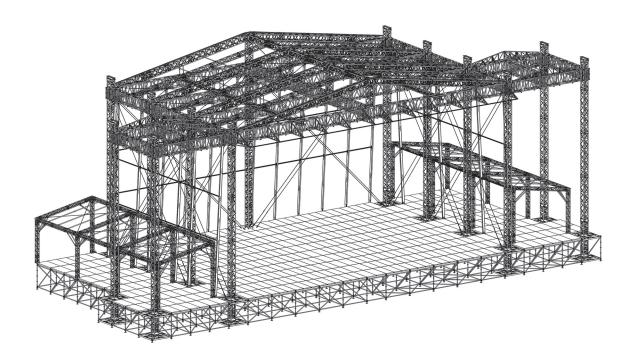
| Main grid                           | B100RV main grid, B52SV as raster   |  |  |  |  |
|-------------------------------------|---|--|--|--|--|
| TECHNICAL SPECIFICATIONS - XXL Roof |   |  |  |  |  |
| Dimensions                          | 30 x 20 m (98'43" x 65'62")<br>25 x 20 m (82'02" x 65'62")<br>20 x 20 m (65'62" x 65'62") |  |  |  |  |
| Loading capacity                    | 30 x 20 m, approx. 28,3T<br>25 x 20 m, approx. 24,3T<br>20 x 20 m, approx. 20,2T          |  |  |  |  |
| Total weight                        | 30 x 20 m, approx. 17000kg<br>25 x 20 m, approx. 16000kg<br>20 x 20 m, approx. 15000kg    |  |  |  |  |
| Transportation volume               | 30 x 20 m, approx. 300m³<br>25 x 20 m, approx. 280m³<br>20 x 20 m, approx. 260m³          |  |  |  |  |
| Max. wind speed                     | 28,4 m/s, 63,3 mph  |  |  |  |  |

Consult Prolyte for up-to-date information on loading capacity, wind speed, total weight and transportation volume in line with the Eurocode regulations.

| OPTIONS       |  |
|---------------|--|
| Canopy        | Top, side and back   |
| Canopy colour | Standard: outside grey, inside black (other colours possible)                        |
| Soundwings    | Optional (yes 4800 kg each)  |
| Ballast       | Several possibilities on request. For example, concrete blocks                       |
| Cantilever    | Yes  |
| Staging       | Prolyte stage elements Probeam combined with a scaffolding stage. or a Layher stage. |

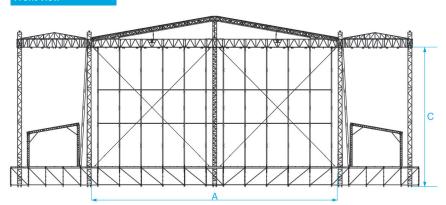


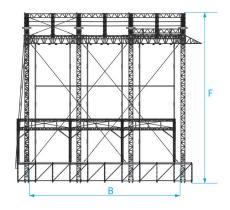
Photo: PROmontaje, Caracas, Venezuela

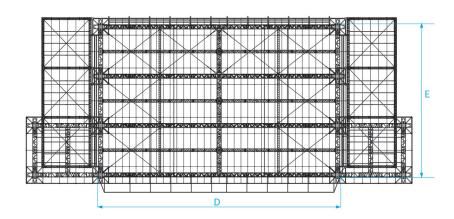




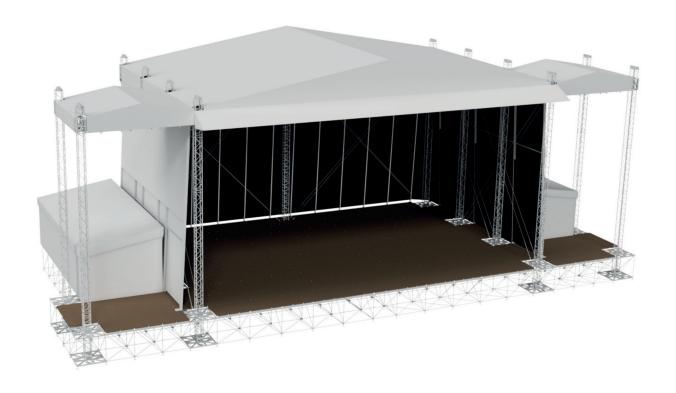








| XXL Roof   |             | Inside  | Inside Overall |         |        |         |        |         |        |         |        |         |        |
|------------|-------------|---------|----------------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|
| Stage meas | surements   | А       | l.             | E       | 3      | С       |        | D       |        |         | E      | F       | =      |
| 30X20      | 98'0"x65'6" | 29,33 m | 96'12"         | 18,12 m | 59'45" | 16,56 m | 54'33" | 30,40 m | 99'73" | 19,12 m | 62'72" | 20,19 m | 66'24" |
| 25X20      | 82'0"x65'6" | 24,18 m | 79'33"         | 18,12 m | 59'45" | 16,56 m | 54'33" | 25,25 m | 82'84" | 19,12 m | 62'72" | 20,19 m | 66'24" |
| 20x20      | 65'6"x65'6" | 19,03 m | 62'43"         | 18,12 m | 59'45" | 16,56 m | 54'33" | 20,11 m | 65'97" | 19,12 m | 62'72" | 20,19 m | 66'24" |



# XXL Roof 20x20 m



# XXL Roof 25x20 m



# XXL Roof 30x20 m







Photo: Interstage, Project: Concert at Sea, The Netherlands

The Space Roof is a modular roof system based on a space frame structure. The roof can be suspended from standard Prolyte CT or DT towers. The aluminium profiles combine with special node points to create a roof structure of any desired size or shape. The Space Roof can be built up to 37 x 22 meters in size. The specially designed top canopy guarantees efficient water drainage. Due to the complexity and size of the Space Roof, quotations are made on request only, allowing us to match your requirements with the possibilities this system offers.

#### **INCLUDING**

- Tension gear and steel wires
- Structural report
- Ballast solution
- Rain gutter at front sides

#### Advantages:

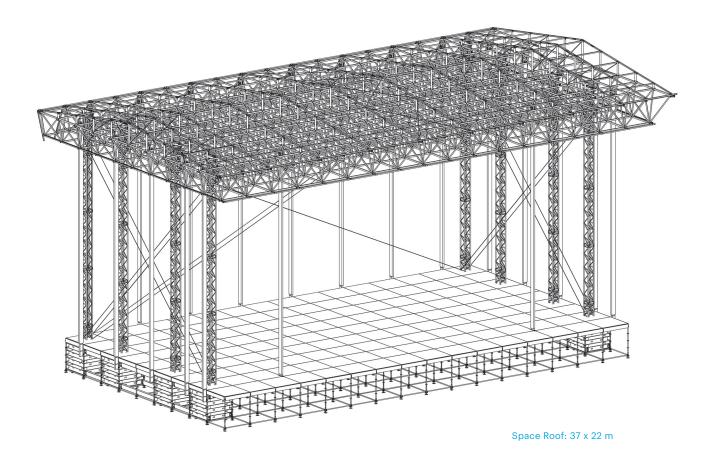
- · Modular roof system, modular sizes possible
- · Extremely high load-bearing capacity
- Efficient transportation due to very compact transport volume (approximately 1/6th of a comparable truss roof)
- Integrated rigging points
- Safe and easy rigging access due to 2 meters high frame and 8 centimeter wide profiles.
- Measurements comply with standard scaffolding systems
- Stage sub-structure needs minimum amount of diagonals, allowing for easy creation of corridors underneath

| ROOF STRUCTURE                        |  |  |  |  |  |
|---------------------------------------|--|--|--|--|--|
| Towers                                | C52T   |  |  |  |  |
| Main grid                             | Space frame in a matrix size of 2072 x 2072 mm   |  |  |  |  |
| TECHNICAL SPECIFICATIONS - Space Roof |  |  |  |  |  |
| Dimensions                            | 31 x 16 m (101' 5" x 52' 6")<br>31 x 20 m (101' 5" x 65' 7")<br>37 x 22 m (121' 5" x 72' 2")<br>other sizes on request |  |  |  |  |
| Loading capacity                      | max. 30000 kg  |  |  |  |  |
| PA loads                              | Additional PA load near front tower<br>4000 kg per side  |  |  |  |  |
| Total self weight                     | approx. 35000 kg (max. size)   |  |  |  |  |
| Max. wind speed                       | 36,9 m/second, 82,5 mph  |  |  |  |  |

| Canopy         | Top, sides and back   |
|----------------|---|
| Canopy colour  | Standard: outside grey, inside black (other colours possible)                       |
| Soundwings     | Optional, (yes Loading depends on size)   |
| Ballast        | Integrated in the bases   |
| Cantilever     | Yes   |
| Side/Backstage | Yes. By means of angled keder profiles  |
| Staging        | Prolyte stage elements Probeam combined with a scaffolding stage or a Layher stage. |

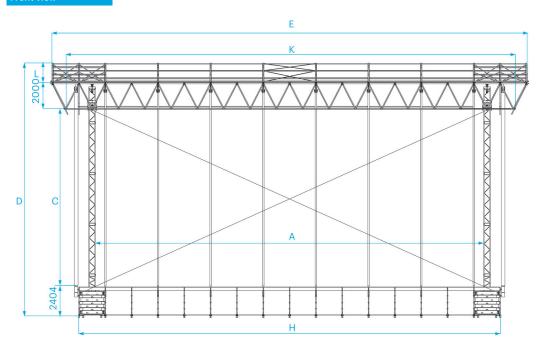


Photo: Starlight, Gothenburg

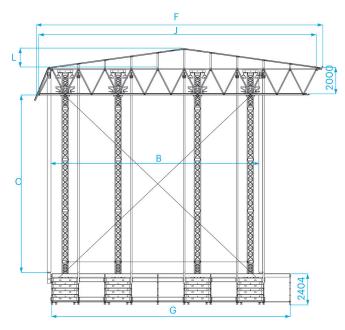




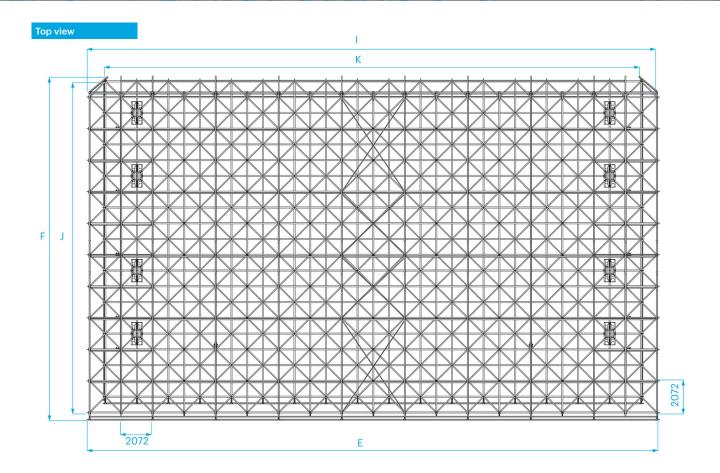




# Side view



| Space Roof System        |                | Inside    |        |         |        |              |       |  |
|--------------------------|----------------|-----------|--------|---------|--------|--------------|-------|--|
| Stage measurements       |                | A         |        | В       |        | С            |       |  |
| 37 x 22 m                | 121'4" x 72'2" | 30,55 m   | 100′2″ | 16,59 m | 54'4"  | 14,00 m      | 45′9″ |  |
| 31 x 20 m                | 101'8" x 65'6" | 24,33 m   | 79'8"  | 14,20 m | 46'6"  | 10,00 m      | 32'8" |  |
| 31 x 16 m                | 101′8″ x 52′5″ | 24,33 m   | 79′8″  | 10,06 m | 33′0″  | 10,00 m      | 32′8″ |  |
| Space Roof System        |                |           |        |         |        |              |       |  |
| Space Roof               | System         | Overall   |        |         |        |              |       |  |
| Space Roof<br>Stage meas | •              | Overall D | )      | E       |        | F            |       |  |
|                          | •              |           | 65′8″  | 37,65 m | 123′5″ | F<br>22,62 m | 74'2" |  |
| Stage meas               | surements      | D         |        |         |        |              |       |  |









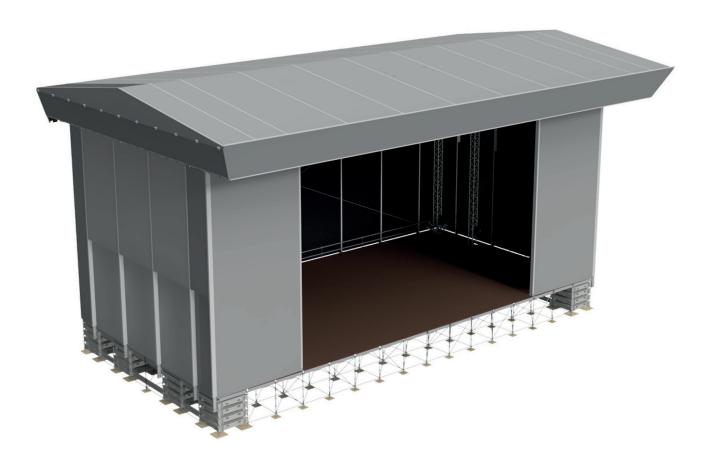
| Space Roo | f System       | Floor   |       |         |        | Grid    |        |         |       | Pitch roof |        |        |      |
|-----------|----------------|---------|-------|---------|--------|---------|--------|---------|-------|------------|--------|--------|------|
| Stage mea | surements      | G       |       | н       |        | 1       |        | J       |       |            | K      | L      |      |
| 37 x 22 m | 121'4" x 72'2" | 18,65 m | 61′2″ | 33,15 m | 108′8″ | 37,30 m | 122′4″ | 21,76 m | 71′4″ | 35,22<br>m | 115′6″ | 1,57 m | 5,2" |
| 31 x 20 m | 101'8" x 65'6" | 16,58 m | 54'4" | 26,94 m | 88'4"  | 31,08 m | 101′9″ | 19,68 m | 64'6" | 29,01<br>m | 95′2″  | 1,43 m | 4′7″ |
| 31 x 16 m | 101'8" x 52'5" | 12,43 m | 40′8″ | 26,94 m | 88′4″  | 31,08 m | 101′9″ | 15,54 m | 50′9″ | 29,01<br>m | 95′2″  | 1,14 m | 3′7″ |







Photo: Neurotech, China Photo: Neurotech, China











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Photo: Extreme, Jordan



# **Prolyte Deck**

Deck product are the perfect accompaniment to truss systems and roof structures. Prolyte has developed a range of complementary products that provide you with one-stop-shop solutions. Ranging from stage systems to crowd control systems Prolyte offers extended solutions for in- and outdoor events. Over the years, Prolyte deck has developed into an independent product range, incorporating both LiteDeck and StageDex staging systems, crowd control systems and associated accessories including ProBeam, ramps, step units and handrails. Whether you have a dance performance, need multilevel staging, require a walkway or need integrated crowd control solutions, these flexible systems adapt easily to all demands.

# **Built on solid experience**

If all the world's a stage, then it should live up to the expectations of modern day technology. Staging systems need to be portable, mobile, compact, and durable. They should be fit to use in a variety of configurations, require the minimum of tooling and come with a range of accessories. This is exactly what you can expect from the StageDex range. Prolyte's staging systems are lightweight yet offer very high loading capacities thanks to advanced design and manufacturing techniques. Furthermore, they comply with all applicable regulations.

# LiteDeck

LiteDeck is one of the highest performing and most popular decking systems in the world of demanding touring productions. Tried and tested internationally, it is a lightweight yet robust staging solution that can be relied upon to perform. The LiteDeck system is available in a wide range of shapes and sizes, allowing hundreds of stage configurations to be created from



Photo: KoRn, De Oosterpoort, The Netherlands. Picture by Knelis

a relatively narrow stock of standard components. Coupled with the unique TopLok system makes this decking a designer's favourite. LiteDeck is available in either imperial or metric measurements, ensuring compatibility with structural formats across the world.

# StageDex

StageDex staging is among the strongest and most versatile systems on the market for building temporary or demountable stages. The product of long-term practical experience, StageDex offers a solid solution to a variety of staging needs. Efficient and lightweight yet offering a high loading capacity, StageDex is ideal for all your business functions from conferences, award ceremonies and exhibitions to banquets, product launches and concerts. With StageDex you can create stunning structures and tailor-made platforms, entertainment stages or dance platforms.

The StageDex staging system is based on an aluminium frame made from a specially extruded

profile. The plywood top board is glued to this frame to reduce noise and vibration. StageDex can be transformed quickly and easily, often without the need for tools. StageDex is available in either imperial or metric measurements, ensuring compatibility with structural formats across the world.

# A new look, time and again

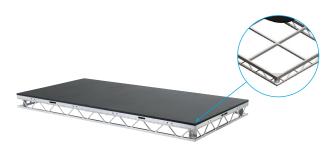
Using standard or customized finishes you can give your projects a fresh look, time and again. The transparent StageDex offers numerous possibilities to expand your banqueting options, create a colour changing dance floor or build catwalks, sloping car ramps or grandstands, where rotating or multi-level staging can create complex staging structures. Several leg types and support frames complete your staging system, along with numerous accessories, which makes the StageDex staging system very adaptable for different circumstances.

# LITEDECK

Renowned for enduring performance and smart aesthetic design, LiteDeck is the most popular decking system in the demanding world of touring productions. Tried and tested around the world, it is a lightweight yet robust staging solution with a proven record of reliable performance.

#### **TOP OPTIONS**

A variety of options for the top board surface completes the LiteDeck range. Provided as standard is our most popular finish, a durable 19 mm plywood painted matte black connected (as with all tops) by a set of bolts which allow removal, maintenance and replacement over the life of the deck. For more elaborate applications, LiteDeck is also available with clear acrylic tops to allow the transmission of lights from under the stage.



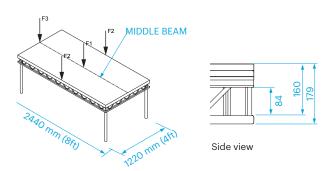


| Description  | Technical                 | Code                                     |
|--------------|---------------------------|--|
| Macrolon Top | 19 mm Hardened<br>Acrylic | Standard deck<br>code followed by<br>Mac |

<sup>\*</sup> Please note, special legs (6 mm shorter) are required with this top configuration.

#### STRUCTURALLY APPROVED

LiteDeck system is designed to provide a  $5~kN/m^2$  uniform load rating in all configurations when used in compliance with our assembly guidelines. Only genuine LiteDeck components should be used, and full design calculations and assembly layouts are available on request.



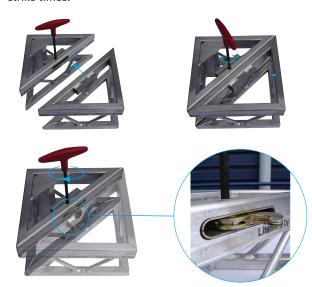
| Loading types              |                       |
|----------------------------|-----------------------|
| Uniformly distributed load | 500 kg/m <sup>2</sup> |
| Pointload F1               | 360 kg                |
| Pointload F2               | 360 kg                |
| Pointload F3               | 360 kg                |

The pointload should be applied to a minimum area of  $50 \times 50$  mm.

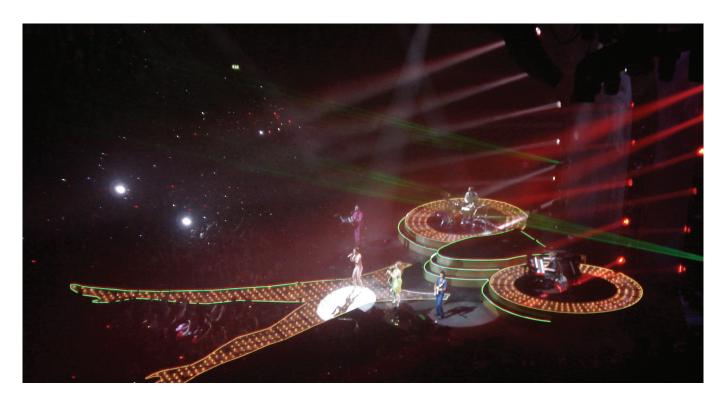
Pointload to be placed as indicated on drawing. 1 pointload total allowed.

#### **TOPLOK SYSTEM**

Introduced specifically in response to feedback from touring productions, the optional TopLok system offers time savings (with crew and cost benefits) in assembling any stage configuration. Utilising an integrated claw catch design, decks can be joined from above with the single turn of an Allen key, ensuring the fastest possible build and strike times.







#### Photo: Scissor Sisters

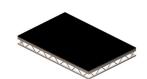
#### **SHAPES AND SIZES**

The LiteDeck system is available in a wide range of shapes and sizes, allowing hundreds of stage configurations to be created from a relatively narrow stock of standard components. LiteDeck is also available in either imperial or metric measurements, ensuring compatibility with structural formats across the world.

\* LiteDeck weights are based upon standard units, without TopLok and with the inclusion of 19 mm plywood tops. Other configurations will differ in weight.



| Size      | Code      | TopLok Code | Weight*  |
|-----------|-----------|-------------|----------|
| 4' x 2'   | LD-42FT-S | LD-42FT-TL  | 17,00 kg |
| 8' x 4'   | LD-84FT-S | LD-84FT-TL  | 49,00 kg |
| 2 m x 1 m | LD-21M-S  | LD-21M-TL   | 36,00 kg |



 Size
 Code
 TopLok Code
 Weight\*

 6' x 4'
 LD-64FT-S
 LD-64FT-TL
 33,50 kg



 Size
 Code
 TopLok Code
 Weight\*

 8' x 2'
 LD-82FT-S
 LD-82FT-TL
 36,00 kg



| Size      | Code      | TopLok Code | Weight*  |
|-----------|-----------|-------------|----------|
| 4' x 4'   | LD-44FT-S | LD-44FT-TL  | 27,50 kg |
| 1 m x 1 m | LD-11M-S  | LD-11M-TL   | 21,00 kg |



 Size
 Code
 TopLok Code
 Weight\*

 4' x 4'
 LD-44FT-S-IQ
 LD-44FT-TL-IQ
 13,50 kg



Circular Decks

Available on request.



| Size      | Code         | TopLok Code    | Weight*  |  |
|-----------|--------------|----------------|----------|--|
| 4' x 4'   | LD-44FT-S-RA | LD-44FT-TLP-RA | 19,50 kg |  |
| 1 m x 1 m | LD-11M-S-RA  | LD-11M-TLP-RA  | 14,50 kg |  |



| Size      | Code        | TopLok Code   | Weight*  |
|-----------|-------------|---------------|----------|
| 4' x 4'   | LD-44FT-S-Q | LD-44FT-TLP-Q | 27,00 kg |
| 1 m x 1 m | LD-11M-S-Q  | LD-11M-TLP-Q  | 21,00 kg |



Semi Circular Decks Available on request.

# LITEDECK LEG SYSTEM

### LITEDECK LEG SYSTEM

LiteDeck is designed around a universal leg system constructed from standard 48 mm x 4 mm round section aluminium tubes. All LiteDeck legs are constructed from high grade 6082T6 tubes, and are supplied cut to length.

| Code     | Description        |                    |
|----------|--------------------|--------------------|
| LDI 10 F | O4 b-ib4 10        | L = 2 10 F = 22    |
| LDL-16,5 | Stage height 19 cm | Leg 16,5 cm        |
| LDL-35,5 | Stage height 38 cm | Leg 35,5 cm        |
|          |                    |                    |
| LDL-54,5 | Stage height 57 cm | Leg 54,5 cm        |
| LDL73,5  | Stage height 76 cm | Leg 73,5 cm        |
|          |                    |                    |
| LD-92,5  | Leg 92,5 cm        | Stage height 95 cm |

| Shape | Size      | Quantity |
|-------|-----------|----------|
|       | 8′ x 4′   | 4        |
|       | 6′ x 4′   | 4        |
|       | 8′ x 2′   | 4        |
|       | 2 m x 1 m | 4        |
|       |           |          |
|       | 4' x 4'   | 4        |
|       | 1 m x 1 m | 4        |
|       |           |          |
|       | 4' x 4'   | 4        |
|       | 1 m x 1 m | 4        |
|       |           |          |
|       | 4' x 4'   | 3        |
|       | 1 m x 1 m | 3        |
|       |           |          |
|       | 4' x 4'   | 3        |
|       | 1 m x 1 m | 3        |





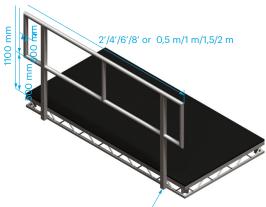
Handrails are a key component in creating safe and useable working platforms. All LiteDeck handrail products constructed from 6082T6 aluminium, are and are designed to bolt, quickly and securely, to specific mounting points located on the side of each deck.

#### **OPEN HANDRAILS**

This lightweight design is suitable for staging applications where the area will not be used for public access.



| LiteDec                 | k ha | ndrails | are   | availab | e in  | two   | con | figurations, |
|-------------------------|------|---------|-------|---------|-------|-------|-----|--------------|
| with                    | the  | approp  | riate | hand    | rail  | syste | m   | dependent    |
| upon                    | the  | applica | ation | and     | there | efore | the | required     |
| legislative conformity. |      |         |       |         |       |       |     |              |
|                         |      |         |       |         |       |       |     |              |



| NΕ | Εľ | ) F | O | R A | 48 | SE | M | В | L١ | <b>/</b> : |
|----|----|-----|---|-----|----|----|---|---|----|------------|
|    |    |     |   |     |    |    |   |   |    |            |

| Description:              | Code:      |
|---------------------------|------------|
| M10 x 90, 8.8 DIN931      | BM-M10X090 |
| Wsh M10 Spring<br>DIN127B | BM-M10-SW  |
| Nut M10 DIN934            | BM-M10-N   |

| Imperial | 2' Rail | 4' Rail | 6' Rail | 8' Rail |
|----------|---------|---------|---------|---------|
| Length   | 2'      | 4'      | 6′      | 8′      |
| Weight   | 3,5 kg  | 6,4 kg  | 7,2 kg  | 8,4 kg  |
| Code     | LD-HS2  | LD-HS4  | LD-HS6  | LD-HS8  |

| Metric | 1 m Rail | 2 m Rail |
|--------|----------|----------|
| Length | 1000 mm  | 2000 mm  |
| Weight | 6,14 kg  | 7,8 kg   |
| Code   | LD-MH51  | LD-MH52  |

#### **SPOKED HANDRAILS**

This design incorporates vertical rails to offer protection where the area will be open to public access. The apertures conform to British Standard regulations and therefore the product complies with typical exhibition hall stipulations.

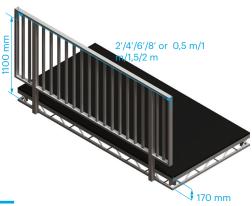






| Imperial | 2' Rail | 4' Rail | 6' Rail | 8' Rail |
|----------|---------|---------|---------|---------|
| Length   | 2'      | 4'      | 6′      | 8′      |
| Weight   | 6,2 kg  | 12,3 kg | 15,3 kg | 18,6 kg |
| Code     | LD-HS2E | LD-HS4E | LD-HS6E | LD-HS8E |

| Metric | 1 m Rail | 2 m Rail |
|--------|----------|----------|
| Length | 1000 mm  | 2000 mm  |
| Weight | 10,8 kg  | 16,1 kg  |
| Code   | LD-MHS1E | LD-MHS2E |



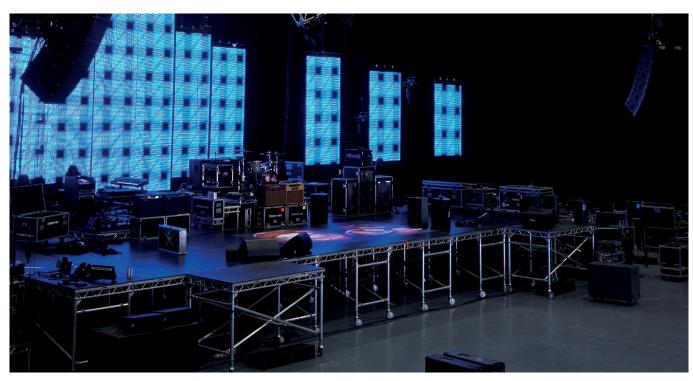


Photo: Stereophonics.

The LiteDeck range is further enhanced by a range of accessories designed specifically to increase the speed and ease of build whilst maintaining the inherent safety

aspect of any stage design. Many of these LiteDeck accessories have been developed on tour, and as such are both quick to use and extremely robust.



Description: Nut M10 DIN934 Code: BM-M10-N



 Description:
 Code:

 M10 x 70, 8.8 DIN931
 BM-M10X070



**Description:**Spring Washer M10
DIN127B

Code: BM-M10-SW





Photo: Rigging Services, UK. Project Galleries Lafayette

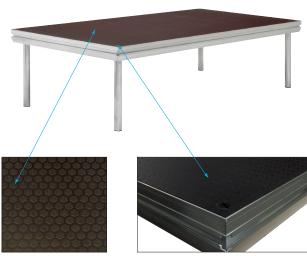
StageDex is based on a special extruded aluminium profile. The top board is glued to the frame to reduce noise and vibration. All decks are available in metric and imperial sizes.

#### **TOP LINE SERIE**

- Internal reinforcement of corner
- Standard spigot entry the topside of the deck to attach EasyRail system
- Birch plywood, water resistant quality
- Glued in 15 mm wooden plate
- Non-slid hexagon layer
- Loading capacity 750 kg/m<sup>2</sup>

- Top option; Birch plywoood, unfinished, indoor use only.
- Top option; Birch plywoood, clear varnish, indoor use only.
- Top option; Birch plywoood, black coating, indoor use only.
- No reinforced corner solution.
- Glued in 15 mm wooden plate.
- Loading capacity 750 kg/m<sup>2</sup>

## **BASIC LINE SERIE**



SM-D-T Birch plywood non slid top layer, non permanent outdoor use





SM-DL-U Birch plywood, unfinished, indoor use only



SM-DL-C Birch plywood, clear varnish, indoor use only



SM-DL-B Birch plywood, black coating, indoor use only





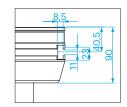
Photo: Extreme, Jordan

#### **SPECIAL TOP OPTION**

- Luxurious transparent decks for special applications. The transparent top board is made from durable, scratchresistant Acrylic.
- Load capacity 500 kg/m<sup>2</sup>
- Can be combined with regular StageDex.
- Clear / acrylic top plate
- Frosted / acrylic top plate
- Maximum allowable temperature 70°C







SM-DL-D Clear SM-DL-DF Frosted

## **CLEVER PARTS THAT MAKE THE DIFFERENCE**

Choose a top line frame to have the advantages of a topbased spigot entry, which allows simple and efficient mounting of handrails.



The universal leg fitting can hold square as well as round types of legs and fixates with one simple handle. The multifunctional profile offers several add-ons.



# STAGEDEX TECHNICAL SPECIFICATIONS AND A ALLOWABLE LOADS

| Allowable loading for different leg types              |           |   |        |          |      |        |  |
|--|-----------|---|--------|----------|------|--------|--|
| LEG TYPES UNIFORMLY DISTRIBUTED LOAD kg/m <sup>2</sup> |           |   |        |          |      |        |  |
| STAGE HEIGHT IN CM                                     | 80 cm     | 1 | 00     | 120      | 160  | 180    |  |
| - STAGE FIELDITT IN CIVI                               | 00 0111   | • | cm cm  |          | cm   | cm     |  |
| StageDex: Tube 43 x 3 (EN AW 6082 T6)                  | 750       | 5 | 500    | 500      | 350  | n.a.   |  |
| <b>LiteDeck:</b> Tube 48 x 4 (EN AW 6082 T6)           | 750       | 7 | 750    | 500      | 500  | 350    |  |
| Profile 40 x 40 x 3 (EN AW 6082 T6)                    | 750       | 5 | 00     | 500      | 500  | 350    |  |
| Tube 48 x 3 (S235JR)                                   | 450 < 800 |   | 800    | ) < 1200 | 1200 | < 1400 |  |
| Telescopic leg   | mm        | m |        | mm       | n    | mm     |  |
| relescopic leg   | 750 kg    |   | 500 kg |          | 35   | 350 kg |  |

| = | Proly | /te | standard | t b | tube |
|---|-------|-----|----------|-----|------|

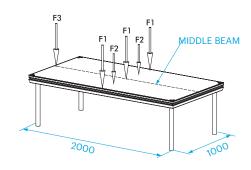
n.a. = not allowed all data based on a standard deck of 2 x 1m

Calculated with 1/10 of the vertical load transfered into a horizontal load (conform DIN 15921 / EN 13814)

| Loading types (for all decks except Acry | lic)                  |
|--|-----------------------|
| Uniformly distributed load               | 750 kg/m <sup>2</sup> |
| Pointload F1                             | 350 kg                |
| Pointload F2                             | 210 kg                |
| Pointload E3                             | 500 kg                |

The pointload should be applied to a minimum area of 50 x 50 mm. Pointload to be placed as indicated on drawing. 1 pointload total allowed.

| Technical Specifications  | 3   |
|---------------------------|---|
| Types                     | standard, standard arched,<br>basic                             |
| Frame                     | Aluminium<br>(EN AW 6063 T6)                                    |
| Top board                 | Plywood   |
| Legs                      | 48 x 3 mm<br>(EN AW 6082 T6)                                    |
| Legs with adjustable feet | 48 x 3 mm<br>(EN AW 6082 T6), with steel<br>spindle on pvc base |
| Telescopic leg            | 48 x 4 / 60 x 5 mm<br>(EN AW 6082 T6)                           |
| Maximum load              | 750 kg/m² UDL   |
| Self weight               | 35,6 kg   |



#### DO

- Check to ensure the stage floor is properly aligned and completely level.
- Check the application conditions of your stage, as the type of use is directly related to safety issues like handrails.
- Brace your staging legs when needed for stability.
- Make sure all stage elements are interconnected.
- Take notice of local regulations for stages and allowed purposes.
- Store StageDex upside down to decreases setup time.
- Maintain your StageDex at regular intervals.
- Inform your crew beforehand on safety procedures (like evacuation procedures) in case of emergency situations.
- · Make sure your construction is properly grounded.

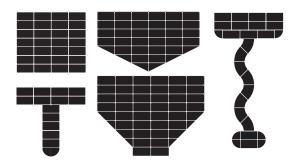
#### DO NOT

- Use materials in poor condition, the payload might be reduced substantially.
- Apply loads before knowing their exact weight and size.
- Exceed the maximum allowable load.
- Use unfinished StageDex top board in outside conditions.
- Exceed the maximum building height of the stage or its support frame.
- Use the hang-on profile without reducing the maximum allowable payload.
- Build your stage on unstable ground.
- Use StageDex elements as ballast for your roof without using the proper support frame.

#### **NEED TO KNOW MORE?**

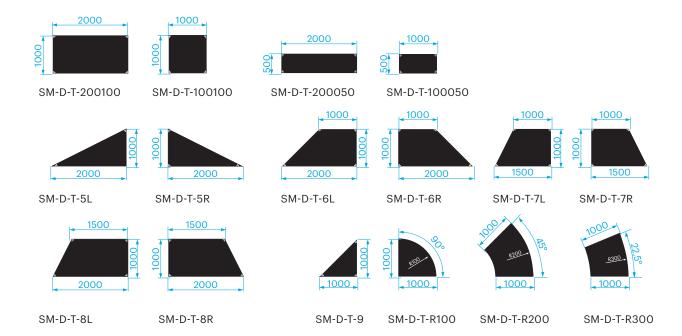
Please go to www.prolyte.com for more technical information on StageDex systems, manuals and loading tables. In the Prolyte BlackBook (technical background information) we provide more in-depth technical knowledge on stages and stage floors.





#### **USE YOUR IMAGINATION**

What if the systems flexibility would not limit your imagination in designing and building staging constructions? StageDex offers endless flexibility to create the designs you require, a variety of standard sizes and shapes as well as easy and often tool less mounting makes construction an easy task.



### **CIRCULAR STAGES**

Prolyte is able to fabricate circular stages that are actually based on curved segments. Each section or segment is handbuild by our craftsmen, therefore small differences in size and shape may occur.



### STANDARDS

Standards that apply to stages and temporary constructions:

| DIN EN 1990 / Eurocode 0 | Basis of structural design  |
|--------------------------|---|
| DIN EN 1991 / Eurocode 1 | Actions on structures   |
| DIN EN 1993 / Eurocode 3 | Design of steel structures  |
| DIN EN 1995 / Eurocode 5 | Design of timber structures   |
| DIN EN 1999 / Eurocode 9 | Design of aluminium structures  |
| DIN EN 13814             | Fairground and amusement park machinery and structures - safety                             |
| DIN 15921                | Entertainment technology - Aluminium platforms and frames - Safety requirements and testing |

# STAGEDEX LEG TYPES

The StageDex leg attachment system provides a straightforward yet ingenious engineering solution that assures fast, safe stage constructions.

- · No tools needed
- The legs are fitted to the deck frame and are fixed in position by one simple handle
- Round as well as square legs can be mounted in the leg attachment system

Notice: The types of legs, and the length of the legs that are used, will determine the amount of loading that is allowed. Be sure to always check the loading table before you apply any loads to the decks.



STANDARD LEGS Round aluminium tube 48 x 3 mm in heights of 200-1000 mm.

Code: SM-L-••A



**ADJUSTABLE LEGS** 

Round aluminium tube 48 x 3 mm in heights of 200-1000 mm, with adjustable feet. Maximum angle of 5°.
Code: SM-L-••A-ADJ





#### **LEGS WITH FITTED CASTORS**

Round aluminium tube 48 x 3 mm in heights of 300-1000 mm, with castor or castor with break.

Maximum of 160kg per leg with castor.

Code: SM-L---CAS-01 = single leg with castor
SM-L---CAS-02 = single leg with castor/brake
SM-L---CAS-03 = double leg with castor
SM-L---CAS-04 = double leg with castor/brake



# **TELESCOPIC LEGS**

StageDex unique telescopic leg combines adjustable height and high loading capacity.

- Sturdy road-rugged mechanism
- Build-in tape measure for easy mounting

# **HOW DOES IT WORK?**

- Release the two M10 hexagon socket head screws or crank handles.
- · Extend the leg to its required length
- Lock the leg at both positions to guarantee optimal grip of the telescopic mechanism
- Measurements on the inside of the profile indicate the total length of the leg and safe operating areas
- · Rubber leg caps prevent damage to your flooring system

| TELESCOPIC LEGS - Standard available Lengths and Codes |  |  |
|--|--|--|
| CODE   | Description                            |  |
| SM-L-45/60-ADJ   | Telescopic leg 600-900 mm              |  |
| SM-L-60/90-ADJ   | Telescopic leg 600-900 mm              |  |
| SM-L-90/140-ADJ  | Telescopic leg 900-1400 mm             |  |
| SM-L-ACC-01  | Crank M10x25 for telescopic leg.       |  |
|  | This can be used instead of the serous |  |

This can be used instead of the screws.





#### **STAGEDEX RAMP**

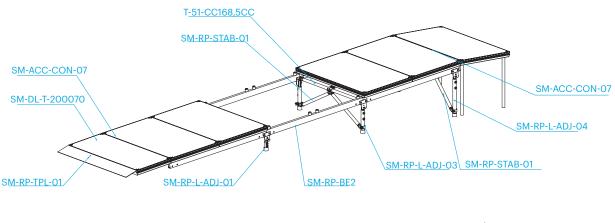
Designed to further expand the possibilities of the StageDex range, the multipurpose StageDex Ramp offers a perfect solution for rolling equipment on and off stage, wheelchair access, or more creative applications such as car shows, walkways and fashion catwalks.

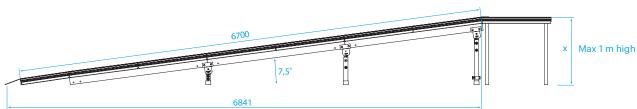
The StageDex Ramp comprises of three basic elements:

- Standard StageDex staging
- Adjustable legs fitted with stabilizers (SM-RP-L-ADJ-...)
- Aluminium side profiles (SM-RP-BE2)

The specially designed side profiles have been engineered to absorb the forces from heavy loads, such as cars, meaning the StageDex Ramp can withstand up to 750 kg/m - the same allowable loading as standard StageDex staging.

The Ramp has a standard sloping angle of 7,5 degrees, but is adjustable between 0 and 22 degrees using a plate connected to the legs. This system ensures the resulting forces from loading are transferred at the correct angle into the leg. Notches on top of the profiles keep the staging in place once the ramp is built. A standard coupling profile allows the sloping section to be connected to staging at either end.







Photos: Prolyte

#### **EASYFRAME B**

#### **System Description:**

EasyFrame B is a support frame suitable for indoor or outdoor use. The frame racks are available in several heights and lengths. The frames connect to the legs with a standard 4-way connection by means of a locking pin. Due to the closed topside, assembly is possible with only one technician. After positioning, the frames are stable and freestanding, and will not topple over. Spindle feet, placed in the bottom of the frames, make it possible to level the stage at an exact position and to vary the height of your stage floor.

| Code:            |   |
|------------------|---|
| SM-F-B-R• 000100 | Rack 1000 mm height, minimum<br>stage floor height variable between<br>1200-1540 mm.  |
| SM-F-B-R• 000150 | Rack 1500 mm height, minimum<br>stage floor height variable between<br>1700-2040 mm.  |
| SM-F-B-R• 000200 | Rack 2000 mm height, minimum stage<br>floor height variable between 2200-<br>2540 mm. |

#### Advantages:

- Can absorb horizontal forces resulting from eventual wind forces on the roof.
- Interfaces for smaller Prolyte roof systems available.
- Fit for various brands of staging by using special adapters to secure your decks.
- The maximum allowable load of 750 kg/m² and 10% horizontal load are guaranteed.
- Standard stage elements provide your stage floor.
- Fast assembly, no tools and a minimum amount of loose parts.

## Ballast system:

Stages are often used in combination with temporary roof structures. If used correctly, the weight of your stage floor may lower the ballast values of your roof construction. The EasyFrame B support system is constructed such that the complete stage floor is interconnected. If the stage is lifted at one end, the complete stage will be lifted. Only constructions that comply with these criteria may act as ballast system for roof constructions. Apart from this fact, the EasyFrame B is suitable to absorb the horizontal forces resulting from the base sections of the roof towers. Prolyte can supply interfaces for the smaller Prolyte roof systems.





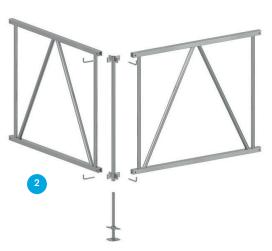
#### STEP 1

Place the leg with 4-way joint (SM-F-B-L....) where wanted. The leg is available in lengths of 1000 mm, 1500 mm and 2000 mm.



#### STEP 3

Place the deck-to-frame adapter (SM-F-B-ADAP-01) in the leg fittings of your deck. Place the decks on top of the assembled frames. Level the stage by means of the spindle feet in the legs.



#### STEP 2

Connect the frame rack (SM-F-B-R....) to the leg and fix with the L-pin (SM-F-A-LP16). The ladder frames connect to the 4-way joint by means of a pen/fork connection which is closed on the top side (the fork "rests" on the pen). After positioning, the parts can stand free, without toppling over. This makes the assembly of the locking pin easy.





#### **DECK TO FRAM ADAPTER**

In order to safely mount the decks to the EasyFrame B system, Prolyte has developed the deck-to-frame adapter. This adapter is mounted in the leg connection and prevents any horizontal movement of the decks.





Photo: Scenos Techninis Servisas, Black Sea Arena, Georgia.

# **EAST FRAME C**System Description:

Based on customer experience, Prolyte created a multipurpose support frame that provides the ultimate in configuration flexibility. EasyFrame C is equally adaptable to use for stages, seating areas or tribunes.

#### A strategic investment:

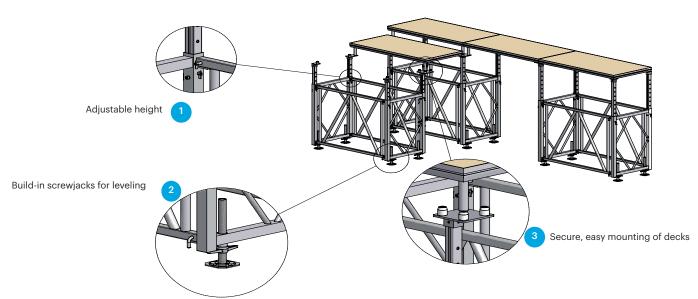
The StageDex EasyFrame C can be used for flat stages as well as raised platforms or bleachers (tribunes). This makes the initial investment very economical, since only one system needs to be purchased for several applications. Ease of assembly also reduces build-up times. Free corridors, which can be created under the stage, allow for handy storage space for your empties and also serve as the ideal location for dimmer city or other uses.

#### Easy does it:

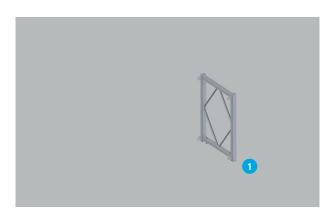
The setup of an EasyFrame C is fast, straightforward and requires only one tool. Due to the use of lightweight material, only one technician is needed to handle each part.

There are two basic types of EasyFrame C: sub frame 1 varies in height between 100-150 cm, while sub frame 2 varies between 160-270 cm. All intermediate steps are either standard or tailor-made by means of the hole distance in the inside legs.

Optional screw jacks provide levelling, or optional castors give you the opportunity to build a RollingStage as well. Standard StageDex are fitted to the top of the EasyFrame C system with a StageDex adapter, which fixes the decks horizontally as well as vertically.

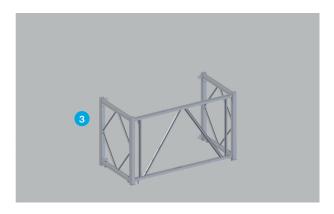




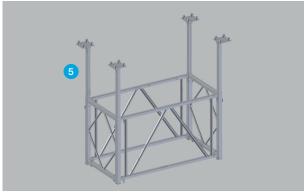


#### STEP 1

Place the base frame (SM-TRB-F-..) at your desired starting point. Frames are available in heights: 1000 – 1500mm (number 01) or 1600 – 2700mm (number 02).

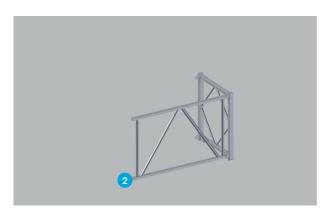


STEP 3
Connect the second base frame to the assembly, using the L-pins.



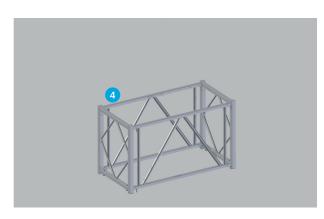
#### CTED 5

Insert the extendable legs (SM-TRB-ADJ-LEG-..) in the base frames. Adjust them for the correct height and then secure them with the L-pin.



#### STEP 2

Connect the side frame (SM-TRB-F-B-..) to the base frame with the L-pins (SM-F-A-LP16). After positioning the parts can stand free, without toppling over. This facilitates easy assembly of the locking pin.



**STEP 4**Connect the final side to the assembly, using the L-pins.



STEP 6

Place your decks on top of the deck adapters (SM-TRB-D-ADAP-..).



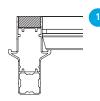
Photo: Prolyte Sales, Space Roof training Starlight

#### SYSTEM DESCRIPTION

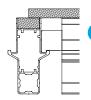
Probeam offers an economical and innovative system that combines the benefits of both scaffolding and StageDex staging systems. The Probeam main beam has wedge head couplers on both ends that connect simply by sliding the wedge head over the rosette and inserting the wedge into the hole. The Probeam cross beam has extended support ridges to fit the Probeam main beam. The exceptional strength and high stability of the Probeam guarantees symmetrical and foolproof construction.

### SIMPLE, FLEXIBLE, CONVERTIBLE

The Probeam is designed for two different applications:



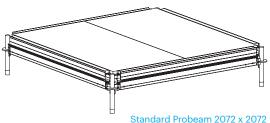
The Probeam converts the scaffolding system measurements (2072 mm) into the metric StageDex system, to create a floor on scaffolding size. The Probeam is fitted with a wooden inlay to overcome the 72 mm difference.



The Probeam system combined with a wooden inlay can be used as supporting frame when normal plywood is used as flooring system.

#### **SYSTEM DETAILS**

- Probeam main beam available in lengths of 1000 mm, 2000 mm and 1036 mm and 2072 mm.
- Probeam cross beam available in lengths of 1000 mm, 2000 mm and 1036 mm and 2072 mm.
- The main and cross beams can be ordered without wood, with basic line wood black or with a top line wooden inlay.
- Covers can be ordered in 3-way and 4-way version, with or without centre hole.



Standard Frobeam 2072 x 207





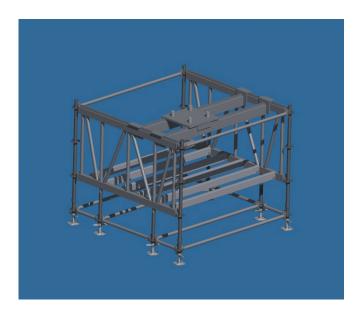






#### PRODUCT DESCRIPTION:

Being one of the major suppliers of temporary roof and staging systems, Prolyte products are often used in combination with Scaffolding systems. To facilitate the work of our users when building a stage, Prolyte has developed a system to integrate roof system towers and base sections in a Layher stage floor. By integrating and interconnecting these two systems you can create a safe and secure stage system.



#### **ADVANTAGES**

- Significant ballast reduction; the self weight of the stage can be subtracted (when the stage is sufficiently braced)
- Lateral forces through guy-wiring or wind on the tower sections are absorbed by the substructure
- Clean and even building area for the roof system
- · Towers are all built on the same height
- · No need to invest in standard base sections
- 100% flexible in x/y direction

Prolyte has created a fully flexible and x/y axis adjustable base system, to take into account that the number of combinations between tower position, stage floor height and position compared to the side of the stage floor are endless.

The size and strength of the components derives from a maximum load structural analysis for the standard LT and ST roof systems. The beams are fitted with a special non-friction based sliding system to allow horizontal forces as well as vertical forces. The frames are utilised to hold cross beams to accommodate additional ballast. All steel frames are delivered with black powder coating.

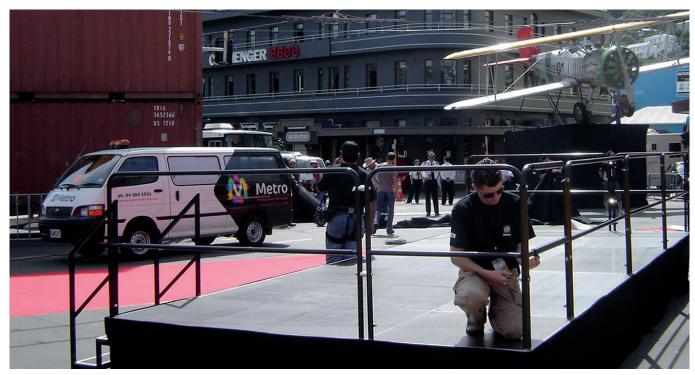


Photo: Metro Productions LTD New Zealand. Project: King Kong premiere in Wellington.

### **EASYRAIL**

#### **System Description:**

Handrails and other accessories from the EasyRail range can easily be attached to the decks by inserting a spigot in a pre-bolted hole on each corner of the deck. This makes it possible to assemble the rails after the decks are built, as they are fully independent of the sides or the underlying constructions of the stage.

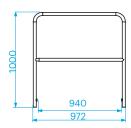
For the basic line decks, StageDex has developed special adapters for the spigots, which slide into the side profiles of the decks. The EasyRail comes in two different versions, both in compliance with the applicable standards (DIN 15921).



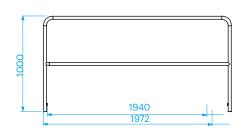
EasyRail mounted on top line deck.



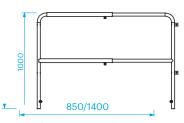
EasyRail mounted on basic line deck.



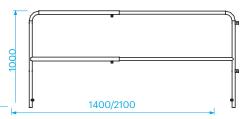
EasyRail railing. SM-RAIL-L100.



EasyRail railing. SM-RAIL-L200.



EasyRail railing. SM-RAIL-L85/140.



EasyRail railing. SM-RAIL-L140/210.





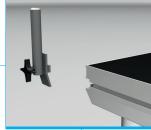
# **EASYRAIL 30 KG/M - BASIC LINE DECK**



SM-RAIL-

ATT-04

Description: Spigot for handrailing



Description: Spigot for SM-RAILhandrailing ATT-04

#### EASYRAIL 30 KG/M

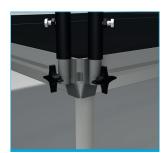
The light-duty version of the EasyRail can resist a horizontal loading of 30 to 60 kg/m. This railing type can be used for stages or areas with no public access. This is the case for most commonly used stages. For top line decks, the railing can be easily mounted on top of the decks by simply bolting a 26 mm spigot to the pre-drilled hole. The railing is available in a fixed and an adjustable type.

#### **FIXED RAIL**

SM-RAIL-L100, length 1000 mm. SM-RAIL-L200, length 2000 mm.

#### ADJUSTABLE RAIL

SM-RAIL-L85/140, adjustable from 850 to 1400 mm. SM-RAIL-L140/210, adjustable from 1400 to 2100 mm.



**Description:** Spigot for handrailing

nector

Code: SM-RAIL-ATT-04



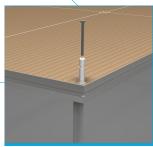


SM-RAIL-CON



Description: Spigot for handrailing

Code: SM-RAIL-ATT-01



Description: Code: Spigot for SM-RAILhandrailing ATT-01 Bolt M12x150 BM-M12x150



Description: Bolt M10x55 BM-M10x55 M-10 Wingnut BM-M10WNUT M-10 Spring-BM-M10-SW wash

# STAGEDEX EASYRAIL





 Description:
 Code:

 Bolts
 BOLT M10X130

 Nuts
 M10 WINGNUT + WASHER



1 SM-RAIL-

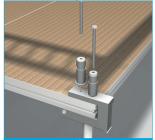
2SM-RAIL-

ATT-08-01

ATT-08

Description: Co

Spigot attachment



Description:

Spigot for SM-RAIL-ATT-02
1x Bolt BM-M12x140
1x Bolt BM-M12x180



Description: Code:

1 SM-RAIL-ATT-09 2 SM-ACC-CLP-03



2x Bolt BM-M12x180

# EASYRAIL 100 KG/M

The heavy-duty version of EasyRail can resist a horizontal loading of 100 to 200 kg/m. This railing type can be used in all circumstances, including portions of the staging with public access, as the railing is in compliance with the applicable regulations. The railing can be easily mounted on top of the decks by simply bolting a 40 mm spigot to the pre-drilled hole, and then using the special railing adapter.

The railing adaptor has an extra M12 hole drilled in front of the spigot hole. An extra spigot can be bolted in place here to provide a connection for a corner rail. This type of rail can only be used in combination with top line decks.

### RAILING LENGTHS

SM-RAIL-H-L100 RAILING 100 KG L = 100 CM SM-RAIL-H-L200 RAILING 100 KG L = 200 CM

SM-RAIL-H110-L100 RAILING 100 KG H = 110 CM, L = 100 CM SM-RAIL-H110-L200 RAILING 100 KG H = 110 CM, L = 200 CM

### **CORNER PIECES**

SM-RAIL-H-L093C RAIL FOR CORNER 100 KG L = 93 CM SM-RAIL-H-L193C RAIL FOR CORNER 100 KG L = 193 CM

SM-RAIL-H110-L093C RAIL FOR CORNER 100 KG, H = 110 CM, L = 93  $^{\circ}$  CM

SM-RAIL-H110-L193C RAIL FOR CORNER 100 KG, H = 110 CM, L = 193 CM

#### **ACCESSORIES**

SM-RAIL-ATT-02 Spigot 40 mm for top line deck

SM-RAIL-ATT-03 Adaptor for 100 kg/m rail for top line deck





Photo: Musical Oorlogswinter, The Netherlands

### **ADJUSTABLE STAIR**

#### **System Description:**

This unique, fully adjustable, staircase consists of separate units which can be combined to form a staircase between 1 m minimum and 3,2 m maximum height.

The units are based on four main beams of  $60 \times 6$  mm tube to which the stair steps are connected. The stair steps are flexible and have a varying angle of 45 to 60 degrees. The adjustable stair is designed for a maximum loading of 500 kg/m2.

### **BASIC ELEMENTS**

### Top side:

SM-STAIR-500, basic element with 6 steps. The upper step aligns with the stage floor. This basic element is connected to the stage by means of a profile that is bolted to the stage with a T-head bolt (M10 x 40 mm) which is placed in the StageDex profile.

### **Bottom side:**

The SM-STAIR-510 base section. Connects to the stair elements by means of a CCS7 coupler combined with the CCS7 hinge (CCS7-H-FM-90).

#### STEP UNITS

To elongate the basic element, extra step units can be mounted. Units range from 1 to 5 steps. Several units can be coupled to reach the maximum allowed height. The extra units are connected using the standard CCS7 coupling system.

SM-STAIR-501, 1 STEP BEAM. SM-STAIR-502, 2 STEP BEAM. SM-STAIR-503, 3 STEP BEAM. SM-STAIR-504, 4 STEP BEAM. SM-STAIR-505, 5 STEP BEAM.

### **HANDRAILS**

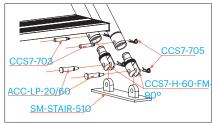
Mounting the handrails completes the staircase. The railing can be combined by utilizing three parts:

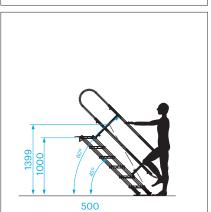
- SM-STAIR-520 is the adjustable basic part, can be coupled, to cover the full height of your stair.
- SM-STAIR-521 is the rounded end part.
- SM-STAIR-522 is the rectangular end part to which another railing can be coupled.

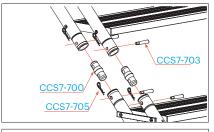
The railing parts can be mounted only on the SM-STAIR-500 and the SM-STAIR-505. The railing is mounted to the main tube using the standard spigot (SM-RAIL-ATT-01), which is bolted to the tube using a M12 x 200 mm bolt.

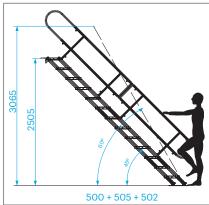
# STAGEDEX EASYSTAIR SYSTEMS











| \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ |  |
|--|--|
| BM-M12X200                             |  |
| SM-RAIL-ATT-0                          |  |
| BM-M12-SDW                             |  |
| BM-M12-SN                              |  |

| STAIR HEIGHTS USING DIFFERENT COMBINATIONS |                |                    |           |                 |           |       |                 |    |                 |  |
|--|----------------|--------------------|-----------|-----------------|-----------|-------|-----------------|----|-----------------|--|
| All measurements in mm                     | 500            | 500 + 501          | 500 + 502 |                 | 500 + 503 |       | 500 + 504       |    | 500 + 505       |  |
| A (stair angle 45 degree)                  | 1000           | 1344               | 1537      |                 | 1731      |       | 1924            |    | 2118            |  |
| B (stair angle 60 degree)                  | 1399           | 1636               | 1873      |                 | 2110      |       | 2346            |    | 2584            |  |
| All measurements in mm                     | 500 + 505 + 50 | 01 500 + 505 + 502 |           | 500 + 505 + 503 |           | 500 - | 500 + 505 + 504 |    | 500 + 505 + 505 |  |
| A (stair angle 45 degree)                  | 2311           | 2505               | 2         | 2699            |           | 2891  |                 | 30 | 075             |  |
| 3 (stair angle 60 2829 3065                |                | N                  | J/Δ       |                 | N/A       |       | N.              | /Δ |                 |  |

maximum allowable stair height 3,2 m.





Photos: Metro Productions LTD, New ZealandProject: King Kong Premiere, Wellington, New Zealand

# MODULAR STAIR

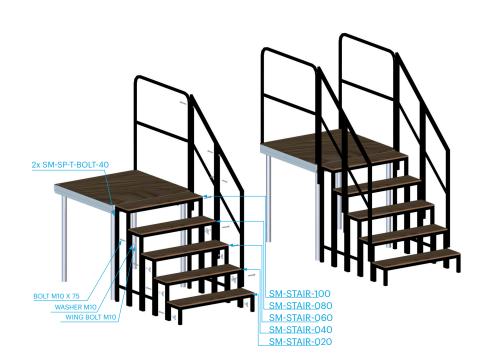
#### **System Description:**

Separate stair units can be combined to create a stair of any desired height in steps of 20 cm by simply bolting stairs together. The units can be connected at both sides, which makes it possible to create a staircase of different widths as well as several heights.

The railing can be connected to the sides of the stairs, but also in between the steps, thereby creating the possibility to have a separate up and down staircase.

The measurements of the individual stair units are  $910 \times 225$  mm. Each stair unit has an angular profile to one side, making it possible to fit the stairs directly to the decks to create an even level for the last stair. The stair unit can be mounted using the T-bolts.

The SM-STAIR-CON-01 special clamp is available to mount stair units to the legs.







100 cm SM-STAIR-CON-01 200 cm SM-STAIR-CON-02





Photo: Prolyte Group

#### STAGEDEX DOLLY

As an extension of its StageDex product range, Prolyte has added two dollies that are tailored to market requirements.

#### **BUILT TO LAST**

The sturdy flatbed dolly has been developed to transport 20 decks, simply stacked on top of one another. This flatbed dolly is ideal for use in larger venues and for large-scale rental.

- · Galvanised steel frame
- Design allows nesting for empty storage or transport
- Easy to manoeuvre due to extra-large wheels
- Fitted with 2 swivels and 2 fixed castors for easy steering
- Integrated handles

#### PRODUCT SPECIFICATIONS: SM-ACC-DOLLY-01

| Dimensions Weight (empty): | L2080 x W1020 x H1276 mm<br>92,8 kg |
|----------------------------|-------------------------------------|
| Weight (loaded):           | 773 kg                              |
| Capacity:                  | 20 pcs StageDex 2x1                 |



#### **SLIM FIT**

The more compact and manageable 6-deck dolly is designed for use in smaller venues, theatres and hotels. Due to the upright position of the decks, this dolly is small enough to fit through any door.

- Galvanised steel frame
- Design allows nesting or tipping for empty storage or transport
- Fitted with 2 swivels and 2 fixed castors for easy steering
- Narrowwidth-at60cmitfitsthroughdoorsandisbasedon standard truck dimensions
- · Pre-fabricated slots to stack the decks on the dolly
- Integrated handles

# PRODUCT SPECIFICATIONS: SM-ACC-DOLLY-02

| Dimensions Weight (empty): | L2075 x W600 x H1191 mm<br>60,4 kg |
|----------------------------|------------------------------------|
| Weight (loaded):           | 265 kg                             |
| Capacity:                  | 6 pcs StageDex 2x1                 |



# STAGEDEX ASSEMBLY AND ACCESSORIES



#### STAGEDEX LEVELLER SM-ACC-CON-01

Use the StageDex leveller to achieve precise levelling of your stage system and to prevent any vertical movement between the decks. Simply slide the cube into the side profile of the decks. Once the adjoined deck is placed, the



StageDex leveller keeps both decks at precisely the same height. A safe and even stage floor, free from tripping hazards, is the result. The levellers can be delivered in several lengths on request.



#### **STAGEDEX CONNECTOR SM-ACC-CON-02**

The StageDex Connector not only keeps your stage floor exactly level, but connects the decks as well. The deck connector slides into the side of the profile and is fixed with the aid of a simple hex key; it can be used in combination with the StageDex Leveller. The StageDex Connector is

specially designed for circumstances where the leg-to-leg clamp cannot be mounted, including:

- Low stages. There are no legs or the legs are too short to be able to mount the clamp.
- Angular or curved stages. The centre-to-centre distance of the legs at the angular corners of the stage is too large to mount the clamp.







#### **COUPLING PROFILE**

The coupling profile provides an easy method of coupling your StageDex system while still allowing elements of the staging to be raked at a certain angle. This offers the







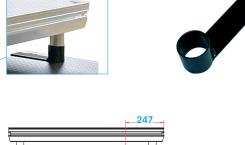
ideal solution for building ramps, sloping walkways or passageways for wheelchairs. The profile slides into the side of the decks; the adjoining deck is safely attached. The maximum raking angle is 30 degrees.

|  | COUPLING PROFILE |        |
|--|------------------|--------|
|  | SM-ACC-CON-03    | 15 cm  |
|  | SM-ACC-CON-04    | 35 cm  |
|  | SM-ACC-CON-05    | 85 cm  |
|  | SM-ACC-CON-06    | 135 cm |
|  | SM-ACC-CON-07    | 185 cm |
|  | SM-ACC-CON-08    | 600 cm |

## STAGEDEX LEG BRACKET SM-ACC-CON-09

Steel bracket for positioning the stage and keeping legs in place. For tiered seating or multi level stages.





# STAGEDEX ASSEMBLY AND ACCESSORIES

#### LEG-TO-LEG CLAMP SM-ACC-CLP-01/02

As well as the SM-ACC-CLP-01, the leg-to-leg clamp that connects two legs, Prolyte has designed the SM-ACC-CLP-02 that connects four legs. Both clamps are easily mounted; tools are not required. The clamps absorb the horizontal forces on the stage floor and guarantee a close fit of the decks.





#### **DEX-TO-DEX CLAMP SM-ACC-CLP-03**

After your decks are mounted to the legs or support structure, they can be connected to each other using this clamp to ensure a sturdy connection between the decks. Using the clamp will prevent any unwanted vertical movement of your stage floor and will absorb the horizontal loading applied to the decks.



#### **CLICK-ON STAGEDEX PROFILES SM-CT-ATT**

One simple click and the profile is mounted to your deck! There are two click-on systems available: skirting profile (SM-CT-ATT-(06 t/m 09)) and toe board profile (SM-CT-ATT-(11 t/m 13)). Each profile works with a simple click and lock system and requires no tools to secure into place. These timesaving products can be locked on from the top for quick and easy assembly.

The skirting profile is developed to create an easy way to attach skirting to your decks, finishing the look of your platform or stage neatly. This profile is available in lengths of 470 mm, 970 mm and 1970 mm.

A Velcro strip is delivered with this profile to facilitate the attachment of skirting. The skirting profile is developed to create an easy way to mount a toe board to your platform or staging area, creating a safe zone and preventing chairs from skidding off. This profile is available in lengths of 470 mm, 970 mm and 1970 mm.





## T-HEAD BOLT SM-SP-T-BOLT-40

The T-head bolt can be placed in the side profile of the deck. It can be used to attach anything that requires bolting in place, from panels and signs to set pieces or special accessories. The bolts are available in several lengths.



# **BARRIERS**



Photo: Events/Cristi Mitrea. Project: Standard Vision, Linkin Park concert Romania

# System characteristics

The StageDex 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 × 180 mm). All profiles have soft, rounded edges for maximum comfort. The design load of the barrier is 4,5 kN/m1. The 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 SnakeGate version. Furthermore, StageDex can deliver the Barrier featuring your own logo upon request.

# System applications

The StageDex 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 Barrier offers a combination of optimum safety and comfort for the audience as well as a safe working area for rescue personnel. The StageDex Barrier is designed as a demountable structure; setup and assembly are quick and easy, requiring a minimum amount of tooling.

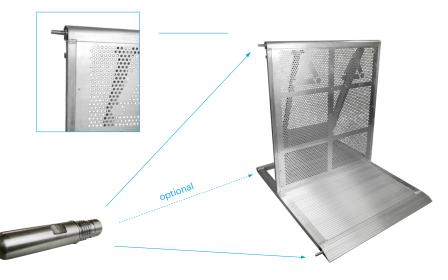
# **Crowd safety**

The StageDex 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.

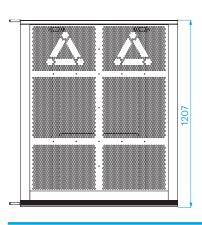


Photo: SGS Security

| Technical Specifications: Barrier A  |                      |  |  |
|--------------------------------------|----------------------|--|--|
| Storage volume                       | 1070 x 1242 x 90 mm  |  |  |
| Self weight alu<br>barrier           | 35 kg/piece 1m       |  |  |
| Design load                          | 4,5 kN/m1            |  |  |
| Complies with demountable structures | EN 13200 & temporary |  |  |
| oti dotalioo                         |                      |  |  |

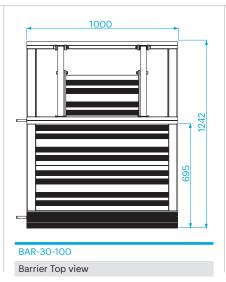


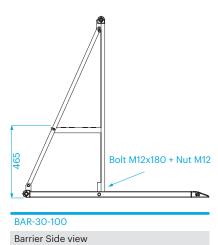
BAR-30-006 Barrier coupler



BAR-30-100

Barrier Front view



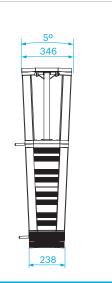




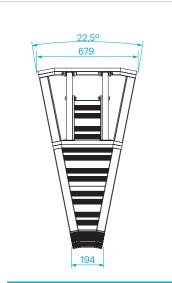


| INSIDE       |       |  |  |  |
|--------------|-------|--|--|--|
| BAR-31-105   | 50    |  |  |  |
| BAR-31-122,5 | 22,5° |  |  |  |
| BAR-31-145   | 45°   |  |  |  |

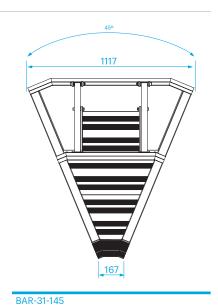
| OUTSIDE      |       |  |  |  |
|--------------|-------|--|--|--|
| BAR-31-205   | 50    |  |  |  |
| BAR-31-222,5 | 22,5° |  |  |  |
| BAR-31-245   | 45°   |  |  |  |



BAR-31-105 Inside view



BAR-31-122,5 Inside view



Inside view

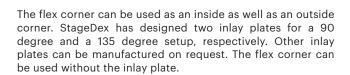
# FLEX CORNER

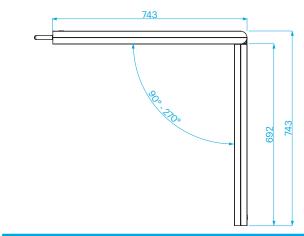
## **FLEX CORNER**

The StageDex 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 StageDex 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.



BAR-31-001





BAR-31-001

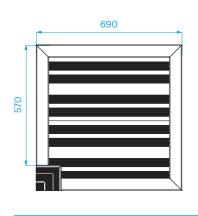
Top view



BAR-31-002

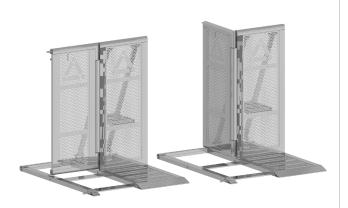


BAR-31-003



BAR-31-002 Inside view BAR-31-003
Inside view







BAR-32-003

**SNAKE GATE** 

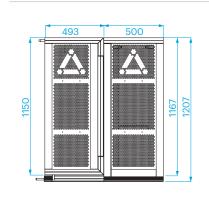
The StageDex SnakeGate is a specially designed barrier to accommodate

the transit of your cables ("snake") from the stage to front of house (FOH).

BAR-32-004

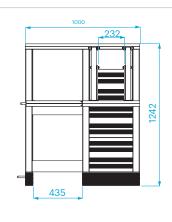
The special designed gate leaves enough room in width and height for any type of standard cable ramp to pass through the barrier line.

The integrated door facilitates access from the stage to FOH for working technicians or security personnel.



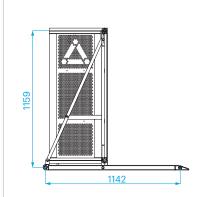
BAR-32-003

Front view



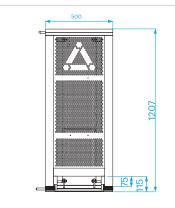
BAR-32-003

Top view



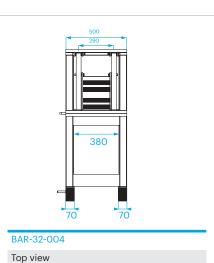
BAR-32-003

Side view



BAR-32-004

Front view



Side view



Photo: Project by MF Group, LineUpGates for Red Hot Chilli Peppers concert, Moscow, Russia.

#### SAFE CROWD CONTROL

Over the years, Prolyte has developed a full range of aluminium crowd control barriers that live up to the highest levels of safety and user-friendliness while complying with the strictest regulations. Prolyte barriers are easy to work with and offer crowd control in a friendly and safe way.

This broad line of barriers is extended with the LineUpGate. Together with the standard barriers, a programme of fixed and variable corners, the mega gate and several clever options, the Prolyte barriers now offer a complete solution for crowd control set-ups.

## MANAGING QUEUING CROWDS SAFELY

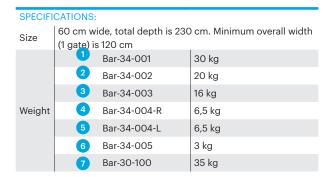
Line-up gates are designed as check points for ticket collection and to manage queuing crowds. The Prolyte LineUpGate offers a simple and efficient tool to control your audience inflow at events or festivals. The modular system can be extended with as many entry gates as you need and can be connected to the standard barriers, creating one interconnected and safe system. The LineUpGates are designed to remain upright under substantial pressure.

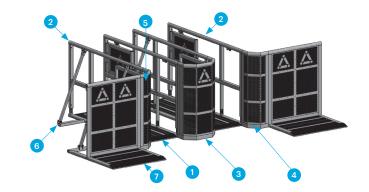
The entry gate is 60 cm wide and offers controlled audience entry, passing one person at a time through the gate. If the situation requires, the gates can be closed with one simple handle, stopping the inflow of audience in a controlled way. The LineUpGates can be branded with signs or banners displaying your event logos by standard mounting options.

#### LINEUPGATE, A CRAFTY SOLUTION

- The Standard version LineUpGate has two entries; each entry is 60 cm wide, total depth is 230 cm.
   Minimum overall width (1 gate) is 120 cm.
- Bumpers available in 90° and 180° sections.
- Can be coupled to any barriers from the Prolyte Barrier range
- Modular system, more LineUpGates can be coupled to create multiple entries
- Each entry can be closed with a hinged gate to stop the inflow of audience when required
- Standard mounting options for banners or signs
- Standard supplied with floor panel to secure safe and stable set-up
- All profiles have rounded edges for more comfort and easy handling
- Panel holes are no larger than 10mm, to prevent jammed fingers
- Noise reduction; all barriers have a vibration free mounted front panel and nylon bearing at hinge points
- Floor panels have standard ridges to create more grip on uneven surfaces, like sand or grass
- · Compact transportation folds to pallet size





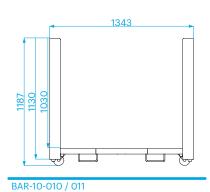


## **DOLLY**

The specially designed barrier dolly makes transporting the barriers easy. This robust steel dolly holds 10 standard 1 m barrier sections. Simply load the StageDex Barriers on top of each other in the dolly. A set of 4 sturdy castor wheels makes transportation and the loading of the dolly easy. The dollies can be stacked on top of each other to save space in storage.

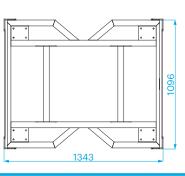




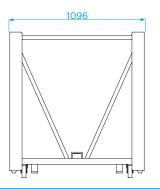


BAR-10-010 are without wheels BAR-10-011 are with wheels

Front view



BAR-10-010 / 011 Top view



BAR-10-010 / 011 Side view







Photo: Perinic Sistemi D.O.O, Voice of Croatia

# PROLYTE<sup>4</sup> Feel. Fantastic.

# **Prolyft products**

Lifting, drive and control solutions from Prolyte makes productions happen, on stage, on tour, in theatres or sports arenas. They ensure safe object or performer movements and protect performers in their daily work. Whether up, down, left or right, the direction, speed or load of the movement is only limited by your imagination. Prolyft is able to cover a broad spectrum of lifting, drive and control solutions within the entertainment market due to employees with an open ear for customer demands and the ability to translate ideas into standard or customized solutions.

# Get Ready for the Next Level

When Simplicity in Motion is the ultimate goal, there is always an extlevel to meet. Prolyte invites you to take that level further with a product range that is fit to meet the future.

# Made for entertainment

Prolyft Nero hoists are designed to meet the increasingly exacting demands of the entertainment market. These foolproof hoists are designed to withstand rigorous transportation and rough handling, and can be serviced just about anywhere – even if it is 12 metres above the stage!



Photo: Prolyte

The controllers are designed in accordance with the latest standards, using a user-friendly layout, reducing the risk of operator failures, in either simple or complex lifting situations.

# **The Unique Prolyft Program**

Prolyte sustains a unique service program on its complete hoist range, developed to offer maximum service and support for all hoist owners.

This program encompasses:

- Installed network of trained and certified Service Points.
- Lifetime warranty.
- Individual identification RFID tag on every hoist for easy, web-enabled, track and trace functions.
- Prolyft Service database automatic reminders for re-certification.
- Test certificates worldwide online available for owners of every hoist.



Photo: Prolyte.

# THE PROLYFT NERO

The Prolyft range is standard with a black chain. Standard on the low voltage and the direct control is the unique outside limit switch which it makes it very easy for the riggers to set limits on their rig positions. The RFID-tag which is on the hoist is the link to the database where the complete log of the specific hoist is saved.





## **COMPETENCES:**

- Unique database, registry & service software suite.
- Lifetime warranty.
- Quality manufacturing in the EU.
- · Certified products, comply to latest world standards.
- Complete assortment with all accessories available.
- Local availability.
- · Worldwide network of Service Points.



# **FEATURES**



Standard with a black chain for the complete range.



 The RFID-tag which is on the hoist, is the link to the unique and completely upgraded database.



 Outside limit switch on low voltage and direct control.



• Database with all the certificates and complete history of the hoist.



• Soft stopper, easy to postion on a random place on the chain.



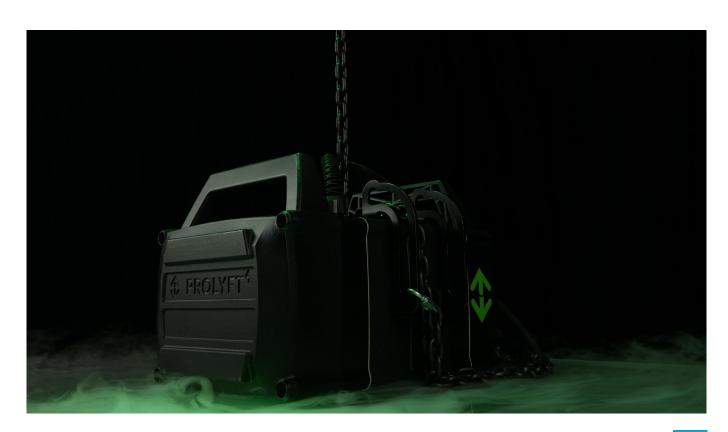
• Low noise level: 67.5 dB at full load.



 Fixed bracket allowing chainbag to move position related to use the motor-up or motor down.



 Damage reducing housing design, with hand grips integrated in cover trough and through coloured plastic covers.



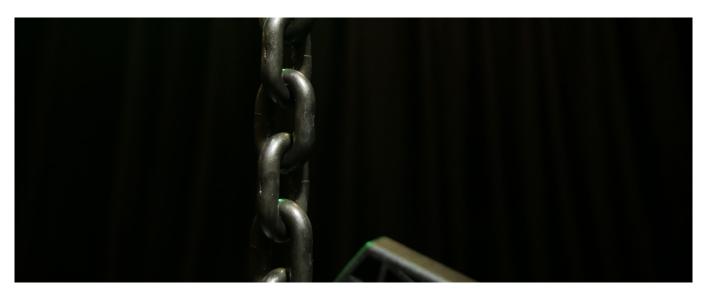
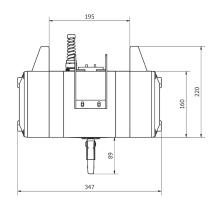
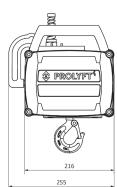


Photo: Prolyte.

| Load capacity                           | 250 kg  |
|---|---|
| Model                                   | D8+   |
| Type of Control                         | Direct of Low Voltage                                       |
| FEM Class                               | 2m  |
| Duty Factor                             | 40%   |
| Start per Hour                          | 240   |
| Breaking time / 10 years                | 6300 h  |
| Falls of Chain                          | 1   |
| Type of Chain                           | DIN EN 818-7 - type DAT - Zinc<br>galvanized steel 80 grade |
| Size of Chain                           | 5x15 mm   |
| Chain Self-Weight                       | 0.53 kg/m   |
| Safety Factor                           | 8.1   |
| IP Rate                                 | 55  |
| Insulation Class<br>(Temperature Class) | F in according to CEI 15-26                                 |
| Load Wheel                              | 5 pockets   |
| Noise Level                             | 67.5 dB @ full load   |
| Connection Cable<br>Length              | (75 ± 5) cm   |
| WLL                                     | 250 kg  |
| Frequency                               | 50 Hz   |
| Motor power                             | 0.5 kW  |
| Number of brakes                        | 2   |
| Brake size                              | 06  |
| Self-weight                             | 21 kg   |
| Lifting speed                           | 4m/min  |









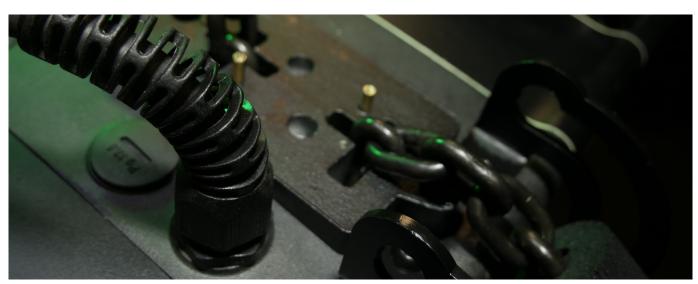
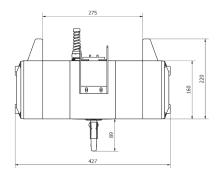


Photo: Prolyte.

| Load capacity                           | 500 kg  |
|---|---|
| Model                                   | D8+   |
| Type of Control                         | Direct of Low Voltage                                       |
| FEM Class                               | 2m  |
| Duty Factor                             | 40%   |
| Start per Hour                          | 240   |
| Breaking time / 10 years                | 6300 h  |
| Falls of Chain                          | 1   |
| Type of Chain                           | DIN EN 818-7 - type DAT - Zinc<br>galvanized steel 80 grade |
| Size of Chain                           | 6x18 mm   |
| Chain Self-Weight                       | 0.78 kg/m   |
| Safety Factor                           | 8.1   |
| IP Rate                                 | 55  |
| Insulation Class<br>(Temperature Class) | F in according to CEI 15-26                                 |
| Load Wheel                              | 5 pockets   |
| Noise Level                             | 67.5 dB @ full load   |
| Connection Cable<br>Length              | (75 ± 5) cm   |
| WLL                                     | 500 kg  |
| Frequency                               | 50 Hz   |
| Motor power                             | 0.8 kW  |
| Number of brakes                        | 2   |
| Brake size                              | 06  |
| Self-weight                             | 24 kg   |
| Lifting speed                           | 4m/min  |







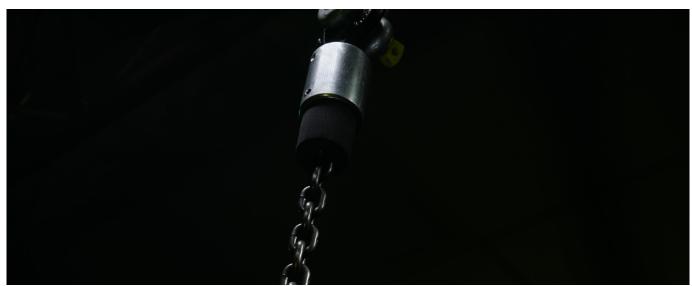
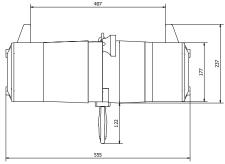


Photo: Prolyte.

| Load capacity                           | 1000 kg   |
|---|---|
| Model                                   | D8+   |
| Type of Control                         | Direct of Low Voltage                                       |
| FEM Class                               | 2m  |
| Duty Factor                             | 40%   |
| Start per Hour                          | 240   |
| Breaking time / 10 years                | 6300 h  |
| Falls of Chain                          | 1   |
| Type of Chain                           | DIN EN 818-7 - type DAT - Zinc<br>galvanized steel 80 grade |
| Size of Chain                           | 8x24 mm   |
| Chain Self-Weight                       | 1.39 kg/m   |
| Safety Factor                           | 8.1   |
| IP Rate                                 | 55  |
| Insulation Class<br>(Temperature Class) | F in according to CEI 15-26                                 |
| Load Wheel                              | 5 pockets   |
| Noise Level                             | 67.5 dB @ full load   |
| Connection Cable<br>Length              | (75 ± 5) cm   |
| WLL                                     | 1000 kg   |
| Frequency                               | 50 Hz   |
| Motor power                             | 1 kW  |
| Number of brakes                        | 2   |
| Brake size                              | 08  |
| Self-weight                             | 43 kg   |
| Lifting speed                           | 4m/min  |









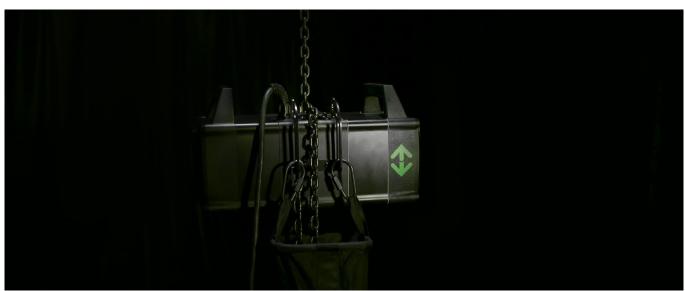
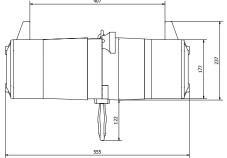


Photo: Prolyte.

| •                                       |   |  |  |
|---|---|--|--|
| Load capacity                           | 2000 kg   |  |  |
| Model                                   | D8+   |  |  |
| Type of Control                         | Direct of Low Voltage                                       |  |  |
| FEM Class                               | 2m  |  |  |
| Duty Factor                             | 40%   |  |  |
| Start per Hour                          | 240   |  |  |
| Breaking time / 10 years                | 6300 h  |  |  |
| Falls of Chain                          | 2   |  |  |
| Type of Chain                           | DIN EN 818-7 - type DAT - Zinc<br>galvanized steel 80 grade |  |  |
| Size of Chain                           | 8x24 mm   |  |  |
| Chain Self-Weight                       | 1.39 kg/m   |  |  |
| Safety Factor                           | 8.1   |  |  |
| IP Rate                                 | 55  |  |  |
| Insulation Class<br>(Temperature Class) | F in according to CEI 15-26                                 |  |  |
| Load Wheel                              | 5 pockets   |  |  |
| Noise Level                             | 67.5 dB @ full load   |  |  |
| Connection Cable<br>Length              | (75 ± 5) cm   |  |  |
| WLL                                     | 2000 kg   |  |  |
| Frequency                               | 50 Hz   |  |  |
| Motor power                             | 1.6 kW  |  |  |
| Number of brakes                        | 2   |  |  |
| Brake size                              | 10  |  |  |
| Self-weight                             | 45 kg   |  |  |
| Lifting speed                           | 4m/min  |  |  |







# **PROLYFT CONTROLLERS**

Prolyft controllers have been engineered with an understanding of the needs of rigging operator. The front panel layout and the functionality of the buttons have been carefully designed to meet the demands of daily practice in lifting, where any mistake can create an overload situation.

## PROLYFT BASIC CONTROLLERS

Prolyft basic controllers are designed for applications that do not require advanced technology, offering a safe, simple, robust and effective control situation.

## Available models:

- 8 and 12 channel version
- Direct Control and Low Voltage Control version.
- 400V and 230V.

## **SPECIFICATIONS:**

- Robust rotating up/down selection switches per channel.
- Main circuit breaker per 4-channels.
- E-stop at SIL2 level.
- 32Amp/400V CEE form 5pin mains connector.
- Harting 16pin output connector(s).
- 19-inch rack mountable housing.

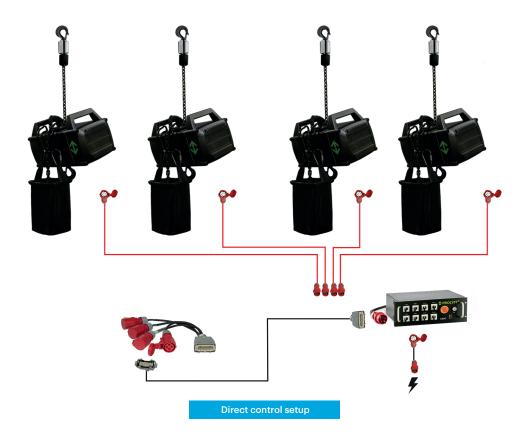


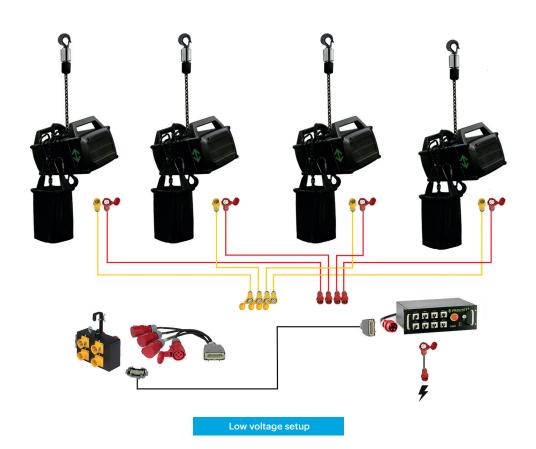
| Article codes: |  |
|----------------|--|
| PLB-C8DC-01    | PROLYFT CONTROLLER 8 WAY BASIC 400-3 DC  |
| PLB-C8DC-02    | PROLYFT CONTROLLER 8 WAY BASIC 230-3 DC  |
| PLB-C8LV-01    | PROLYFT CONTROLLER 8 WAY BASIC 400-3 LV  |
| PLB-C8LV-02    | PROLYFT CONTROLLER 8 WAY BASIC 230-3 LV  |
| PLB-C12DC-01   | PROLYFT CONTROLLER 12 WAY BASIC 400-3 DC |
| PLB-C12DC-02   | PROLYFT CONTROLLER 12 WAY BASIC 230-3 DC |
| PLB-C12LV-01   | PROLYFT CONTROLLER 12 WAY BASIC 400-3 LV |
| PLB-C12LV-02   | PROLYFT CONTROLLER 12 WAY BASIC 230-3 LV |





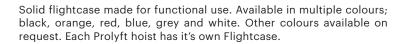
# **CONTROLLERS**





# **FLIGHTCASES**

| SIZES         |                           |          |
|---------------|---------------------------|----------|
| PNE-A-FC-250  | FLIGHTCASE NERO<br>250KG  | 48x48x39 |
| PNE-A-FC-500  | FLIGHTCASE NERO<br>500KG  | 48x48x39 |
| PNE-A-FC-1000 | FLIGHCASE NERO<br>1T000KG | 57x57x46 |
| PNE-A-FC-2000 | FLIGHTCASE NERO<br>2000KG | 57x57x46 |





# **CHAINBAGS**

# SIZES

| OIZEO      |               |               |               |                   |               |
|------------|---------------|---------------|---------------|-------------------|---------------|
| Bag type   | 4x12mm<br>75% | 5x15mm<br>75% | 6x18mm<br>75% | 7.1x20.5mm<br>75% | 8x24mm<br>75% |
| PLA-10-S   | 40m           | 25m           | 20m           | 15m               | 10m           |
| PLA-10-M   | 50m           | 30m           | 25m           | 20m               | 15m           |
| PLA-10-L   |               | 75m           | 60m           | 30m               | 25m           |
| PLA-10-XL  |               |               | 75m           | 65m               | 50m           |
| PLA-10-XXL |               |               |               | 80m               | 60m           |

Sturdy chainbags, with a perfect fit and reinforced bottom, to keep the chain secured in the bag, all tested 75% filled and a safetyfactor of 1:8. Available in 5 different sizes to fit the complete range.





## **CABLES**



#### PLA-30-05

## Power Cable 16A/400V/4p

Motor cable 16A, CEE 4p. To be used for direct controlled hoists. Available in several lenghts.



## PLA-32-05

## Power Cable 32A/400V/5p

Main cable 32A, CEE 5p. To be used to connect your controls to the power system. Available in several lenghts.



# PLA-34-01

## Break-in Cee-form to Harting, Direct Control

Adapter to connect a multi cable to 4 motor cables .  $4\,\mathrm{x}$  4p. Male CEE connector to female Harting connector.



#### PLA-34-04

# Break-out Harting to CEE-form, Low Voltage Control

Adapter to connect 4 motor cables to a multi cable. Male Harting connector to 4 x 4p. female CEE conector. For low voltage hoists.



## PLA-31-05

## Control Cable Low Voltage Hoists

6A, CEE 4p. To be used for low voltage controlled hoists. Available in several lenghts.



## PLA-33-05

## Multi Cable, 16p. Harting

To be used to connect up to 4 hoists - in combination with the 4-way break-out or break-in. Available in several lenghts.



## PLA-34-02

#### Break-out Harting to CEE-form, Direct Control

Adapter to connect 4 motor cables to a multi cable. Male Harting connector to 4 x 4p. female CEE conector.



Photo: © Prolyte

## PRODUCT FEATURES: PHC-500ST AND PHC-1000ST

- Available in 500 and 1000 kg load capacity versions.
- Standard lifting chain lengths: 10, 15, 20m, 25 m. (The hand chain is always two times the length of the load chain).
- Hand chain guide prevents toppling or jamming of the hand chain.
- · High quality bearings to ensure smooth operation.
- · Robust, black powder coated housing.
- Zinc plated and/or yellow chromatized brake parts and quide rollers.
- · Zinc plated load chain and hand chain.
- · Rotating hooks on housing and chain.

#### **CHAIN BAG**

The manual chain hoist can be equipped with standard chain bags fitting the chain or oversized chain bags that can also be used to transport the manual hoist.

## **QUALITY IN 2 VERSIONS**

The manual chain hoists are available in a standard version and in a version with a rotatable hand chain guide. Both versions offer a 500 kg and a 1000 kg SWL capacity. These premium quality, basic hoists offer different chain lengths on both versions, optional black powder coating and a high quality zinc plated chain.



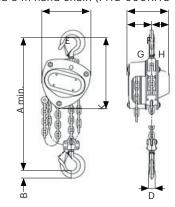
| PHC-500ST                     | PHC-1000ST-1010 |
|-------------------------------|-----------------|
| Manual Chain Hoists 500 kg ar | nd 1000 kg      |

## **OPERATES FROM ANY POSITION**

Using the rotatable hand chain guide the operator can work from any position, being able to follow and operate from any work position. This allows the operator to stand and work outside the danger zone near the load. The rotatable hand chain guide makes this hoist type specifically suited for tower and roof system applications, where the hoist is used in an inverted position.

# PRODUCT FEATURES: PHC-500RHG AND PHC-1000RHG SERIES

- Available in 500 and 1000 kg load capacity versions.
- 360 degree rotating hand chain guide.
- · High quality and easy serviceable brake system.
- Zinc plated and/or yellow chromatized brake parts and guide rollers.
- · Zinc plated load chain and hand chain.
- Chain guide and gearbox almost completely closed for maximum protection.
- Rotating hooks on house and chain.
- Available chain length: The RHG series hand chain hoist can be supplied with any preferred amount of load and hand chain. Used in combination with most of the MPT towers the hoist will be configured with 15 m load chain and 3 m hand chain (PHC-500RHG-0315).



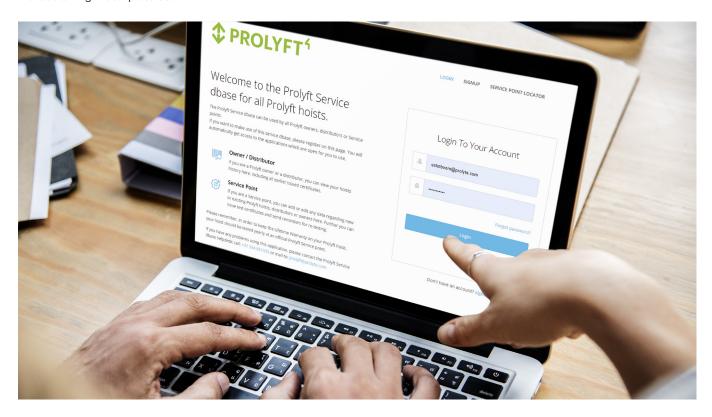
|                         | Α   | _  | _  | _   | -   | _  |    |     |
|-------------------------|-----|----|----|-----|-----|----|----|-----|
| PHC-500ST<br>PHC-1000ST | 350 | 21 | 16 | 145 | 140 | 80 | 60 | 240 |
| PHC-1000ST              | 380 | 28 | 20 | 158 | 155 | 87 | 68 | 270 |

|                 | Load capacity | Chain size | Lift per 1m hand chain overhaul | Pull on hand chain at WLL | Weight |
|-----------------|---------------|------------|---------------------------------|---------------------------|--------|
| PHC-500ST-1515  | 500 kg        | 5 x 15 mm  | 26 mm                           | 210 N                     | 27 kg  |
| PHC-1000ST-1515 | 1000 kg       | 6 x 18 mm  | 24 mm                           | 240 N                     | 37 kg  |

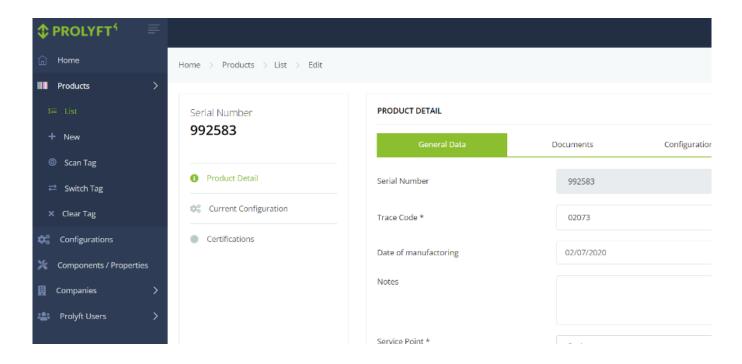


## **SERVICE POINT DATABSE**

Prolyft has its own unique database. All hoist that left Prolyft are in the database and trackable. The database is a unique tool for the Prolyft Service Points to certify and service all the hoist. The test can be done in a physical test rig or with a mobile set. This means that not only the hoist in the rental stock can be certified but also the hoist in a fixed installation without taking it complete out.



The Prolyft database is web-based and accessible from any place where you have access to the internet. It is available for use in different devices, such as mobile phones or tablets. You can add any kind of files to the specific hoist.





# **PROLYTE CAMPUS**



Photo: PSI, Ireland



# **Prolyte Campus**

Prolyte Campus is a Prolyte initiative to support its customers with the best and most up-to-date knowledge available. Providing the tools and training to use the Prolyte products safely and in compliance with applicable standards and regulations will help you perform better. Prolyte Campus offers a complete program of learning activities to create awareness on the safe use of Prolyte products.

# Providind the knowledge to let your business grow

As a manufacturer, Prolyte always feels the responsibility to supply knowledge as integrated part of its products. Creating the awareness that safe working practices are key to responsible ownership is one of our goals.

Placing all our training initiatives under one umbrella is a means to facilitate access to this knowledge base for all our customers and users. Transferring knowledge and creating a dialogue with technicians worldwide, finding their needs and sharing experiences is a valuable base for creating solutions that work and help you grow your business.

# What does Prolyte campus offers?

Sharing knowledge is the pivoting point, in whatever way is needed to get the message across. As a start the Prolyte Campus will offer a mix of online, printed and seminar based means of knowledge transfer. Existing activities, like the BlackBook, How to video's, Rigging Courses and Seminar possibilities, will be continued.

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