ARC ROOF 10X8



SYSTEM DESCRIPTION

The Arc Roof is a fixed construction, based on three inward-curving trusses that are mounted to side masts. Special corners 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 optional canopy.

INCLUDING

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

| Structure | |
|----------------|--------------------------|
| Main grid | H30V |
| Towers | H30V |
| Roof structure | Arc Roof |
| Stiffening | Guywires + Pressure bars |

| Loading capacity | | |
|------------------|------------------------|--------|
| Description | Туре | Totals |
| Maingrid* | UDL | 2450kg |
| | CPL | 1000kg |
| | Point load combination | 2000kg |
| PA wing | CPL per wing | 1000kg |

*Exact figures depend on configuration and loading plan

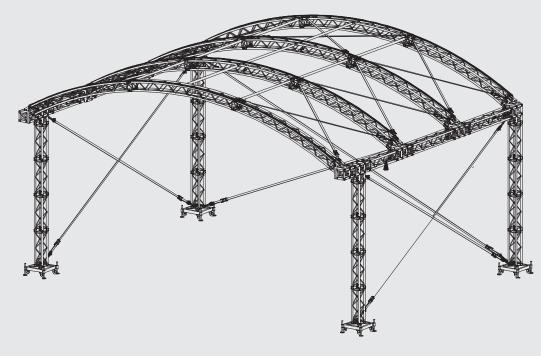
Why?

- Easy to handle, quick setup
- Significant loading capacity
- Versatile application

| Logistic | |
|---|------------------|
| Self-weight structure | 1200kg |
| Transport volume structure | 32m ³ |
| Exact figures depends on configuration and loading plan | |

| Assembling | |
|--|---|
| Build up approximately | 8 hours (4 persons) |
| Dismantling approximately | 6 hours (4 persons) |
| All these numbers varies dependir and skills of the crew. | ng on weather conditions, amount of persons available |





ARC ROOF 10X8

| Design standards | |
|----------------------|---|
| ISO-17842-1 (2015) | Safety of amusement rides and amusement devices Part 1: Design and manufacture |
| EN 13814-1 (2015) | Fairground and amusement park machinery and structures - Safety |
| EUROCODE 0 (EN-1990) | Basis of structural design |
| EUROCODE 1 (EN-1991) | Actions on structures |
| EUROCODE 3 (EN-1993) | Design of steel structures |
| EUROCODE 9 (EN-1999) | Design of aluminum structures |

• All structural components/structures are produced according EN1090 EXC3.

• All structures are supplied with a structural report and manual – a on-site training is mandatory

Wind management

| According ISO-17842-1 (2015) | | |
|---|--|--|
| (wind loading valid for area Vb,0 = $28m/s$ – terrain category III) | | |
| Out-Service | 0,44kN/m² | 26,5 m/s – 95,4km/hr (Max. gust wind speed) |
| In-Service | 0,20kN/m ² | 17,9 m/s – 64,4km/hr (Max. gust wind speed) |
| Measures | Upon reaching 17,9 m/s side and backwall canopies shall be removed | 3,43 m |

Canopy

Top, side and back

Standard side and back wall 100% closed - scrims available on request.

 $\label{eq:color} \mbox{Color outside grey, inside black} - \mbox{other colors on request}$

Canopy complies to B1 fire retardant standards (ISO 9239-1)

| Ballast | | |
|--|----------------------------------|--|
| Total | Varies between 3000kg – 14.200kg | |
| Per tower | Varies between 700 - 3700kg | |
| Amount of ballast depends on: | Basis of structural design | |
| Self-weight of the structure (position of the tower) | | |
| Interconnected tower bases or free-standing towers | | |
| The use of an integrated staging system | | |
| Friction coefficient between spindles-padding-sub soil | | |

| Staging | | |
|--|---------------------|--|
| Layher scaffolding stage or Easyframe B stage, available as an option. | | |
| Floor dimensions | variable | |
| Floor height | max +/-1,4 m | |
| Floor loading | 500ka/m² – 750ka/m² | |

Soundwing

Available as an option

Groundring

Available as an option

Side/Backstage area

None

Lifting

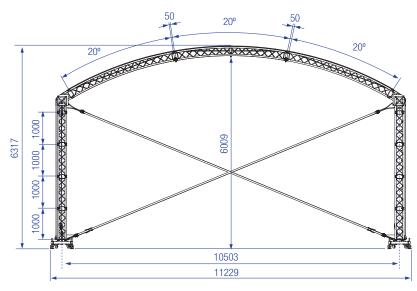
4x material lift (not included)



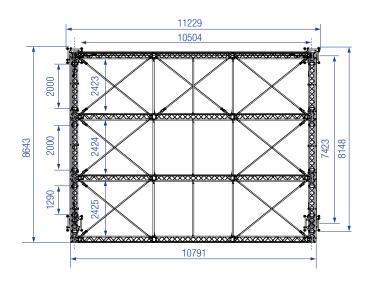


DIMENSIONS

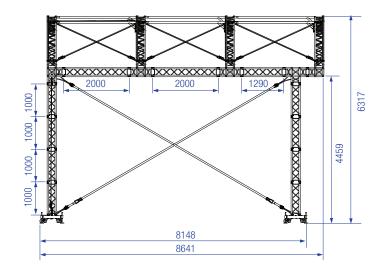
FRONT VIEW 10X8



TOP VIEW 10X8



SIDE VIEW 10X8



Interested?

Need advise or more information, please call: +31-594 85 15 15 or email: sales@prolyte.com www.prolyte.com



