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

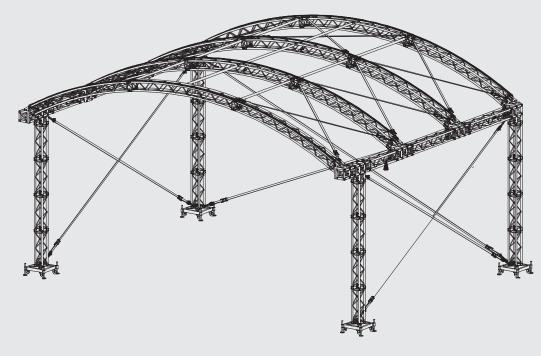
Why?

- 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





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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

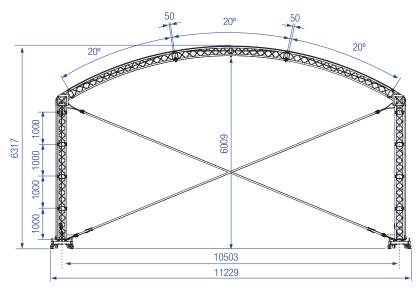
4x material lift (not included)



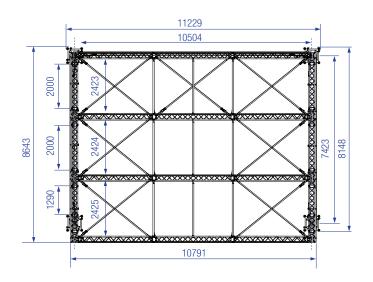


DIMENSIONS

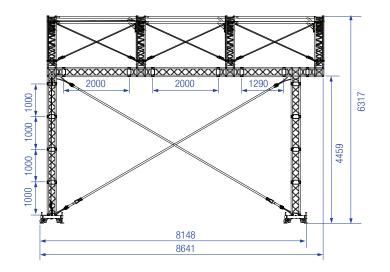
FRONT VIEW 10X8



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



