# ARC ROOF 10X8



# PRODUCT DATA SHEET

The Arc Roof is a fixed construction, based on three inwardcurving 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.

- Tension gear and steel wires
- Comprehensive building manual

• Structural report.

Structure		
Main grid	H3OV	
Towers	H3OV	
Roof structure	Arc Roof	
Stiffening	Guywires + Pressure bars	

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

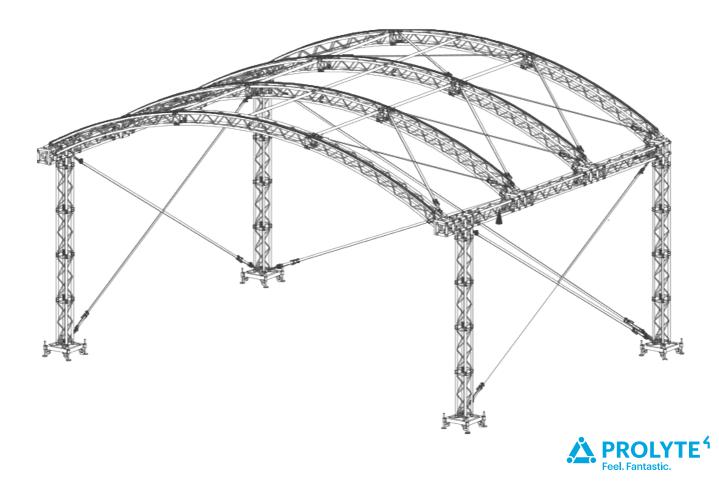
\*Exact figures depend on configuration and loading plan.

Logistic	
Self-weight structure	1200kg
Transport volume structure	32m <sup>3</sup>

Exact figures depends on configuration and loading plan

### Assembling

Build up approximately	4 hours (4 persons)	
Dismantling approximately	4 hours (4 persons)	
All these numbers varies depending on weather conditions, amount of persons available and skills of the crew.		



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# Design standardsISO-17842-1 (2015)Safety of amusement rides and amusement<br/>devices -- Part 1: Design and manufacture<br/>Fairground and amusement park machinery<br/>and structures - SafetyEUROCODE 0 (EN-1990)Basis of structural designEUROCODE 1 (EN-1991)Actions on structuresEUROCODE 3 (EN-1993)Design of steel structuresEUROCODE 9 (EN-1999)Design of aluminum structures

Ballast		
Total	Varies between 1600kg – 6000kg	
Per tower	Varies between 400 – 1550kg	
Amount of ballast depends on:		
Self-weight of the structu	ire (position of the tower)	
<ul> <li>Interconnected tower base</li> </ul>	ses or free-standing towers	
<ul> <li>The use of an integrated staging system</li> </ul>		
<ul> <li>Friction coefficient between</li> </ul>	een spindles-padding-sub soil	

• 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

### Staging

Layher scaffolding stage or Easyframe B stage, available as an option.

Floor dimensions	variable
Floor height	max +/-1,4 m
Floor loading	500kg/m2 – 750kg/m2

### 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/m2	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			

### Canopy

Top, side and back

Standard side and back wall 100% closed - scrims available on request. Color outside grey, inside black – other colors on request

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

### Soundwing

Available as an option

Groundring

Available as an option

### Side/Backstage area

None

### Lifting

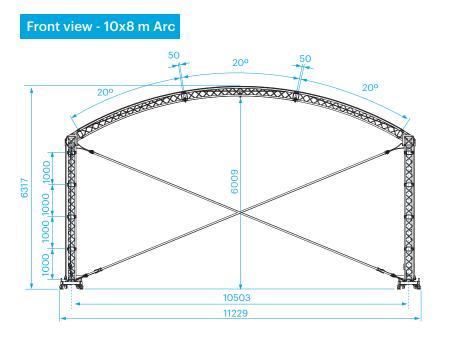
None n.a.

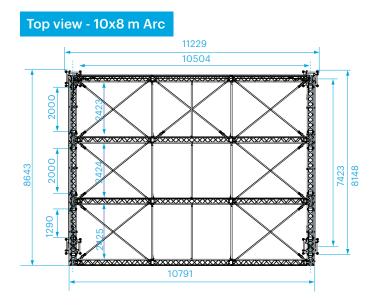


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### Front view - 10x8 m Arc





## Side view -10x8 m Arc

