

PRODUCT DATA SHEET

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.

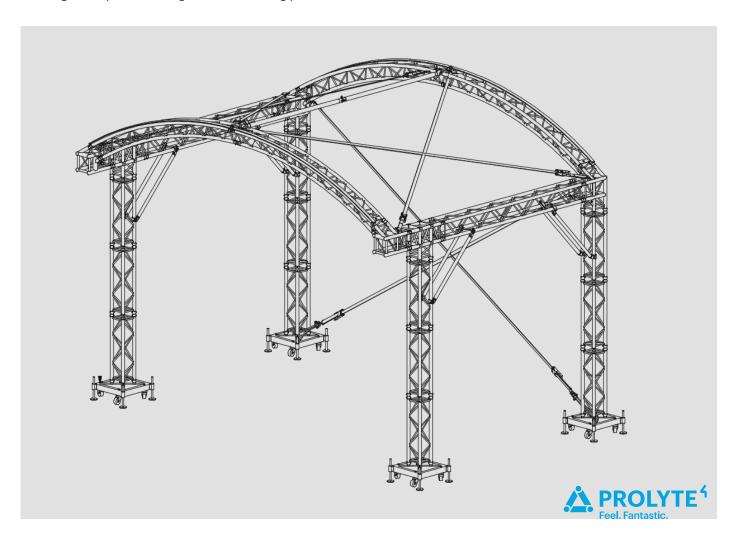
Structure		
Main grid	H30D	
Towers	H30V	
Roof structure	Arc Roof	
Stiffening	Guywires + Pressure bars	

Logistic		
Self-weight structure	600kg	
Transport volume structure	16m³	
Exact figures depends on configuration and loading plan		

Loading capacity			
Description	Туре	Totals	
	UDL	1800kg	
Maingrid*	CPL	950kg	
	Point load combination	2000kg	
PA wing	CPL per wing	1000kg	

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.			

^{*}Exact figures depend on configuration and loading plan.



ARC ROOF 6X4



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		

Ballast Total Varies between 1600kg – 6000kg Per tower Varies between 400 – 1550kg Amount of ballast depends on: • 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

- 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	r 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		

willa 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		

Available as an option			
Groundring			
Available as an option			

Soundwing

Side/Backstage area

None

Canopy Top, side and back

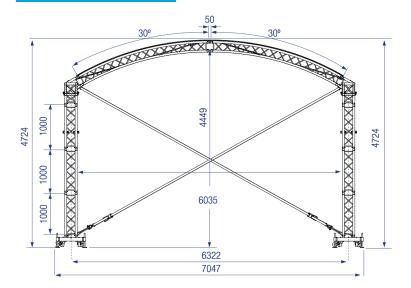
Standard side and back wall 100% closed - scrims available on request.
Color outside grey, inside black - other colors on request
Capany complies to P1 fire retardant standards (ISO 0230-1)

Lifting		
None n.a.		

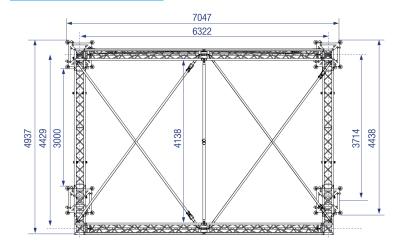




Front view - 6x4 m Arc



Top view - 6x4 m Arc



Side view - 6x4 m Arc

