ARC ROOF 6X4



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

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

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

Why?

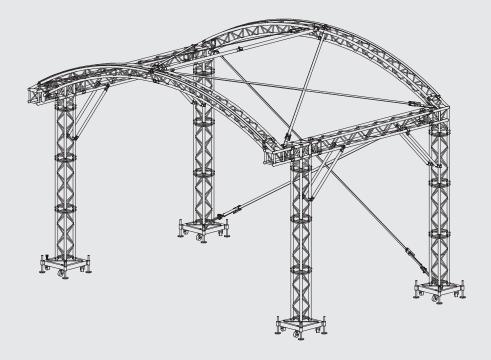
- Easy to handle, quick setup
- Significant loading capacity
- Versatile application

Logistic	
Self-weight structure	600kg
Transport volume structure	16m³
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 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 (2	According ISO-17842-1 (2015)		
(wind loading valid for area	a Vb,0 = 28m/s - terrain o	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 be removed	s side and backwall canopies shall	

Canopy

Top, side and back

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

 $\hbox{\it Color outside grey, inside black--other colors on request}$

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

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

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

Soundwing

Available as an option

Groundring

Available as an option

Side/Backstage area

None

Lifting

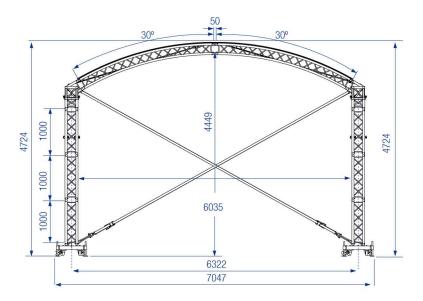
None n.a.



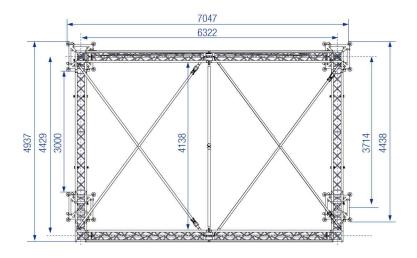


DIMENSIONS

FRONT VIEW 6X4



TOP VIEW 6X4



SIDE VIEW 6X4

