

ARCADEF® ROOF

Evolution Pneumatic



Filling

ORIGIN' RANGE:

- PCA 10 opal multiwall

THERMIK' RANGE:

- PCA 16



Control

- Two 110° opening leaves
- Opening mechanism type crossbar

The ARCADEF ROOF Pneumatic is a DENFC intended mainly for smoke and heat evacuation for all types of buildings (ERP, ERT, industrial buildings). It can be adapted directly to the ARCADE vault with a rope length of up to 4 metres.

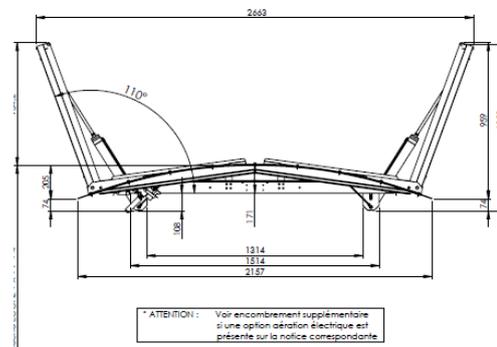
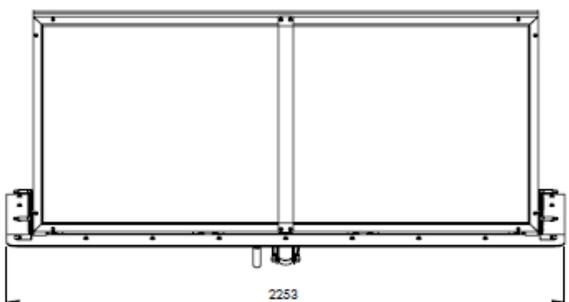
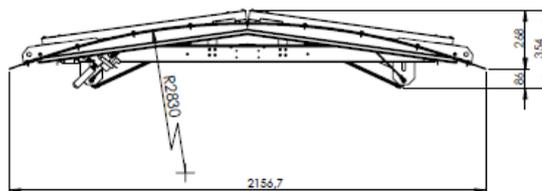
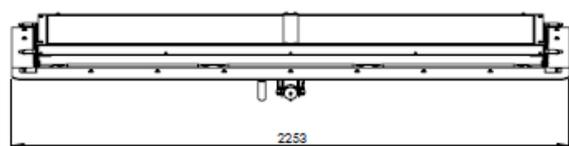
Exists in the following versions :



The ARCADEF® ROOF Pneumatic is fully assembled in the factory. On site, installation is greatly simplified. The device only needs to be placed and fixed on the vault. Adaptable to ARCADE vaults with a chord length of 2000 to 4000 mm, its constant radius of 2800 mm adapts to the ARCADE vault in a fast and efficient way.

The ARCADEF® ROOF Pneumatic is a point sash that can be adapted to chords up to 4 m and which benefits from very good insulation thanks to the polyurethane foam used in the polyester base in the standard colour White RAL 9002. The 3.2 m² geometric surface area is ideal for installation in industrial buildings.

The ARCADEF® ROOF Pneumatic is equipped with a mechanical locking system resistant to high (WL 1500).



PERFORMANCE



Venting: Type B (open + close)

Reliability: Re 300 (10,000 venting cycles)

Low ambient temperature: T(00)

Heat resistance : B₃₀₀

Wind load : WL1500

Opening under load : SL 250 to SL 500

COMPLIANCE & ENFORCEMENT

DENFC CE in accordance with **NF EN 12101-2**.

Fixing and sealing must comply with the requirements defined in the DTU series 40 and 43 in force.

Maximum authorised slope : 15°

Only the bar option guarantees the 1200 joules protection.

DoP available on skydome.eu

ARCADEF® ROOF

Trade name

Can be integrated into ARCADE vaulting THERMIK' or ORIGIN' range	Trade name	Filling
	ARCADEF ROOF 10	PCA 10 MM
	ARCADEF ROOF 16	PCA 16 MM

Geometric dimensions

Hopper dimensions A x B (cm)
Width x Length (cm)
170 x 190

Filling performance

THICKNESS	WALLS	FILLING	U _g (roof)	TL	FS	R _w
PCA 10	4	Opal	2,8	57%	0,61	19 (-1; -3)
PCA 16	7	Opal	2,1	45%	0,55	21(-1; -2)

Sunshade cover



A sustainable and economical solution to the problem of building heating. It is an innovative system made of aluminium, combined with the polycarbonate honeycomb filling of our skylights. CSTB tests show that the energy transmission factor is only 15%.

Airflow performance

Dimension (WxL in cm)	S.G.O. (in m ²)	Aa standard* (in m ²)	Aa with HPA* deflectors
170 x 190	3,2	1,65	2,09

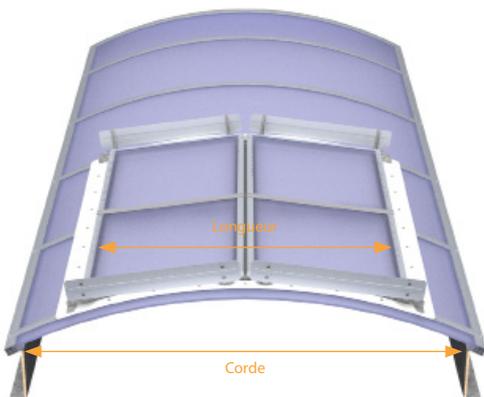
*In the standard version, aluminium mini-deflectors (height: 130 mm) to ensure good aeraulic performance.

**In the HPA - High Air Performance - version (height: 290 mm) in aluminium to optimise the airflow efficiency of the smoke outlet.

Consumption

Minimum opening pressure (smoke extraction)	SL 250 : 8,6 bars	SL 500 : 12 bars
Minimum opening pressure (venting)	7 bars	
Minimum resealing pressure	7 bars	

Rope



Rope (R)	Rayon	Filling
Minimum : 2000 mm	CONSTANT RADIUS : 2800 MM	
Maximum : 4000 mm		

Length: sash width 1700 mm

Options

Pneumatic ventilation

This is provided by the unit without any modifications or additional costs. The unit is connected to a «comfort» box for smoke extraction and ventilation. The CE certification is also valid in this configuration.

Electrical ventilation

Ventilation can also be provided by a 230 V electric cylinder with a 300 mm stroke, in single or double leaf. In smoke extraction function, the electric cylinder is automatically unlocked.

Railing

1200 joules round R6 anti-drop and burglar resistant grille, fixed in the polyester base.