



Pneumatic NSHE (OPEN/CLOSE) for basic and plus arcade rooflights Data sheet

Aerodynamic smoke and heat extraction unit (NSHE)
to EN 12101-2 for more demanding applications



Daylighting Solutions
Natural Ventilation Solutions
Smoke Management Solutions
Service & Maintenance
Building Automation

Application

This pneumatic smoke and heat extraction unit with OPEN/CLOSE function is designed for more demanding applications. It is not possible to close the unit from the roof with this system. The system is designed for heavy-duty performance and can even be used in areas with heavy snow loads. Electric (230 V) or pneumatic opening units can be used for daily aeration and ventilation.

Application areas

- up to a maximum roof pitch of 15° (greater pitches available on request)
- basic and plus arcade rooflights with apex vents (double flaps available on request)
- where qualified smoke and heat extraction is required

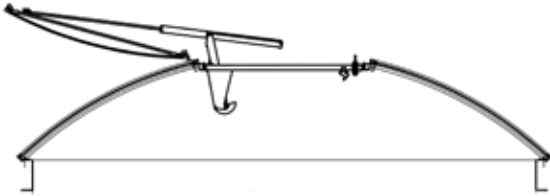
Features and benefits

- pneumatic NSHE with OPEN/CLOSE function for convenient closing after activation or in the event of a false alarm
- can be combined with linear drive or pneumatic cylinder for daily aeration and ventilation
- with wind training walls to improve the aerodynamic extraction value (A_o value)
- designed for snow loads up to 3,000 N (depending on the flap size)
- also available as purely OPEN variant
- checked and certified to EN 12101-2
- high A_o values possible (up to 3.93 m² with 3.12 x 2.00 m double flap)



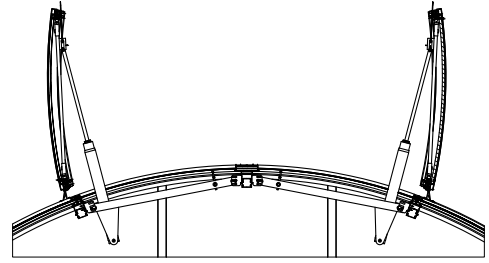
Technical specifications

Standard



Cross section of apex vent with pneumatic NSHE OPEN/CLOSE

On request



Cross section of double flap with pneumatic NSHE OPEN/CLOSE

Apex vent size [mm]	Snow load SL [N/m ²]	Arcade rooflight from span width [m]
870 x 2,060	1,500	1.15
870 x 1,000	3,000	1.15
1,370 x 2,060	1,000	1.55
1,370 x 1,000	2,000	1.55
1,670 x 2,060	750	1.80
1,670 x 1,000	1,500	1.80

Double flap size [mm]	Snow load SL [N/m ²]	Arcade rooflight from span width [m]
1,000 x 2,000	3,000	2.20
2,060 x 2,000	1,500	2.20
3,120 x 2,000	1,500	2.20
1,000 x 2,500	2,000	2.70
2,060 x 2,500	1,250	2.70

Technical specifications	
Wind load (WL)	WL 1,000 (for 500 N linear drive) / WL 1,500 (for 1,000 N linear drive)
Snow load	500 - 3,000 N/m ²
Functional reliability ventilation (Re)	10,000 x
Functional reliability SHE (Re)	Re 1,000
Functional reliability at low temperatures	up to T (-05)
Heat resistance	B 300
Activation temperature	68°C, 93°C, 110°C or 141°C (depending on design)
Opening angle	Apex vent: 165° (± 5°) (double flap: 90° (± 5°) available on request)

Please ask for details of special designs.

INTERNATIONAL

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Subject to technical alterations.

Illustrations are not binding.

