VENTRIA 3 flap

VELUX® Commercial

The reliable ventilation flap for SHEV and ventilation, now with Environmental Product Declaration (EPD)

VENTRIA 3 flap

- ventilation flap with low flap height for daily comfort ventilation and for certified smoke and heat exhaust ventilation
- with comprehensive Environmental Product Declaration (EPD) according to ISO 14025 and EN 15804
- CE-marked according to EN 12101-2 for certified smoke and heat exhaust ventilation
- for installation pitches from 2° to 90°
- welded edges for lasting stability and durability
- large surface area of up to 6.0 m² possible, depending on function and glazing
- high watertightness due to integrated labyrinth sealing system on all sides
- air permeability according to EN 12207 – Class 4
- watertightness according to EN 12208 – Class E1950
- resistance to wind load according to EN 12210 – Class C5/B5
- function tested in a cold chamber to -25°C
- outstanding thermal insulation due to unique chamber and beam formation as well as circumferential thermal breaks
- U_w-value = 1.2 W/m²K (reference value)

The VENTRIA 3 flap, comprised of high-quality aluminium profiles can, depending on the design, be used as a reliable smoke and heat exhaust system or as a daily comfort ventilation system. The circumferential thermally broken frame and the optimised flap profile, design ensure excellent thermal insulation.

Moreover, the VENTRIA 3 flap is captivating due to its elegant design and rounded shape. The generous variety of models makes the flap extremely adaptable and flexible. The flap can be operated electrically or pneumatically, as desired. The flaps can be controlled through the building management system.

Nachweis

Luftdurchlässigkeit, Schlagregendichtheit statisch, Widerstandsfähigkeit bei Windlast

Prüfbericht
Nr. 14-001172-PR01
(PB-A31-02-de-02)

ift ROSENHEIM

Auftraggeber: JET Brakel Aero GmbH, Alte Hürxer Straße 179, 46562 Voerde, Deutschland

Produkt: Dachflächenfenster, auswärts öffnend

System: Ventria 3, eingebaut in BA 56 System

Leistungsrelevante Produktdetails: Variante mit 3 Dichtebenen im Flügelbereich

Material: Aluminium - Kunststoff - Verbundprofile

Außenmaß (lichtes Maß): 1400 mm x 2000 mm

Besonderheiten: Einbaulage Prüfung: 2° Neigung

Ergebnis

Luftdurchlässigkeit
EN 12207:1999-11
Klasse 4

Schlagregendichtheit - statisch
EN 12208:1999-11
Klasse E1950

Widerstandsfähigkeit bei Windlast
EN 12210:1999-11/AC:2002-08
Klasse C5 / B5

ift Rosenheim
08.03.2018

Thomas Stefan, Dipl.-Ing. (FH), Prüfstellenleiter Bauteilprüfung

Thomas Krichbaumer, Prüfingenieur Bauteilprüfung

Test Certificate Tightness and Wind Load

VENTRIA 3 flap is available as standard[1] in all rectangular shapes with

- a maximum width/length up to 2800 mm (SHEV system)
- a maximum surface area of up to 3.92 m² (SHEV system)
- a maximum width/length up to 3000 mm (comfort ventilation)
- a maximum surface area of up to 6.0 m² (comfort ventilation)
- a maximum glass or infill weight of up to approx. 65 kg/m²

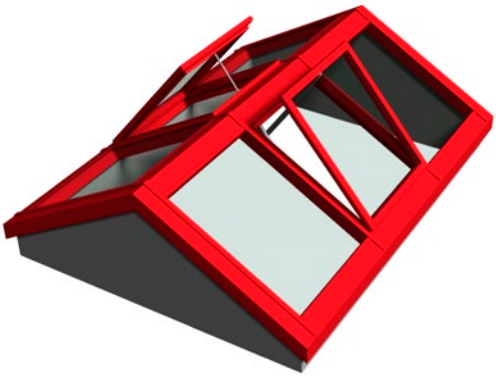
Note:
1) Other dimensions and weights upon request

3D illustration of an open VENTRIA 3 flap

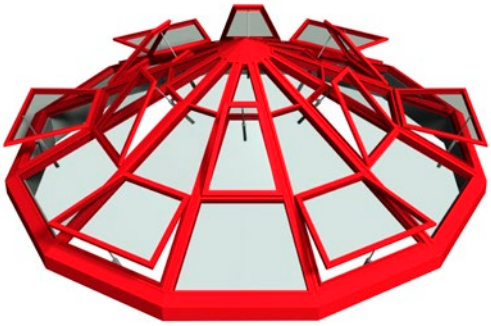
Flexible design options

- almost unrestricted choice of glazing or other infill material
- almost unrestricted choice of geometry for ventilation
- bottom-hung solution for smoke ventilation
- top-hung and bottom-hung solution for comfort ventilation
- calculation of the fittings included
- installation in numerous roof shapes possible
- different drive variants for SHEV and comfort ventilation operation, either electric (24V or 230V) or pneumatic (SHEV is always electrically operated)
- the ventilation flaps can be operated via a spindle actuator, a rack-and-pinion drive, a chain actuator or a pneumatic actuator
- low glass level offset
- single/double flap versions

VENTRIA 3 flap as a ventilation flap in a mono-pitch roof



3D illustration of the VENTRIA 3 flap in a dual pitched solution – application as SHEV



3D illustration of the VENTRIA 3 flap as comfort ventilation in a pyramid

Stick System ventilation flaps have a recommended minimum installation height of 2.5 m above floor level (inside) and ground level (outside). In case of installation of the ventilation flaps below that level, safety measures must be applied by the user to prevent serious injury.

By ordering a stick system solution containing ventilation flaps to be placed within reach i.e. below 2.5 m above floor/ground level, delivered and installed by the VELUX Group, the user acknowledges to have been made specifically aware of the regulatory requirements concerning entrapment protection and inherent hazards, and ***the user takes full liability on application of adequate safety measures****. No instruction or measure can eliminate the inherent hazards resulting from installation heights below 2.5 m. Measures could for instance be to install a motion sensor that is able to disconnect power from the control unit in case of any movement in the immediate vicinity of the Stick System ventilation flaps.*

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