

# VENTRIA TG flap

**VELUX®**
**Commercial**


The solid ventilation flap for comfort, smoke and heat exhaust

## VENTRIA TG flap

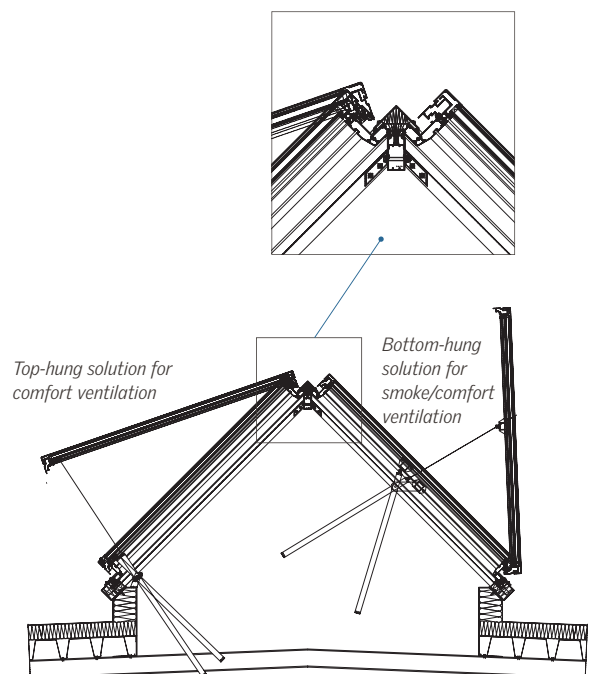
- ventilation flap with a narrow visible width for daily comfort ventilation and certified smoke and heat exhaust ventilation
- CE-marked according to EN 12101-2 for certified smoke and heat exhaust ventilation
- for installation pitches from 2° to 90°
- welded edges for lasting stability and durability
- optimum tightness due to integrated labyrinth sealing system
- air permeability according to EN 12207 – Class 4
- watertightness according to EN 12208 – Class 9A
- resistance to wind load according to EN 12210 – Class npd
- function tested in a cold chamber to -25°C
- good thermal insulation due to circumferential thermally separated aluminium profiles
- chain thrust motors functioning after fire test

The VENTRIA TG flap, comprised of high-quality aluminium profiles, can operate as a reliable smoke and heat exhaust system or as a daily comfort ventilation system. The circumferential thermal separation of the base and flap profile offers good insulating properties.

With its attractive optics and variety of models, the VENTRIA TG flap can be used in a wide range of applications. The operation of the flap can be either electric or pneumatic, depending on requirements.

The flaps can be controlled through the building management system.

## Installation of VENTRIA TG flap



5.1.1  
Stick system

5.1.2  
Top-mounted  
stick system

6.3.2  
VENTRIA 3  
flap

8.2.2  
Maintenance and care  
of glass constructions

The VENTRIA TG flap can be provided in any rectangular shape as standard, with

- a maximum width of 2,800 mm
- a maximum length of 2,800 mm
- a maximum surface of 3,92 m<sup>2</sup>
- a maximum glass or infill weight of up to approximately 40 kg/m<sup>2</sup>

#### Flexible design options

- nearly free choice of glazing or other infill material
- nearly free choice of geometry for ventilation
- bottom-hung solution for smoke ventilation
- top-hung and bottom-hung solution for comfort ventilation
- calculation of the brackets inclusively
- installation possible on a variety of roof inclines
- free choice of operation
- the ventilation flaps can be operated via a spindle actuator, a rack-and-pinion drive, a chain actuator or a pneumatic actuator
- construction heights to suit project requirements
- SHEV possible with 24V and 230V
- single- or double-flap design



3D illustration of a VENTRIA TG flap in open position



VENTRIA TG flaps installed in a flat roof



VENTRIA TG flaps installed in a dual pitched solution



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.