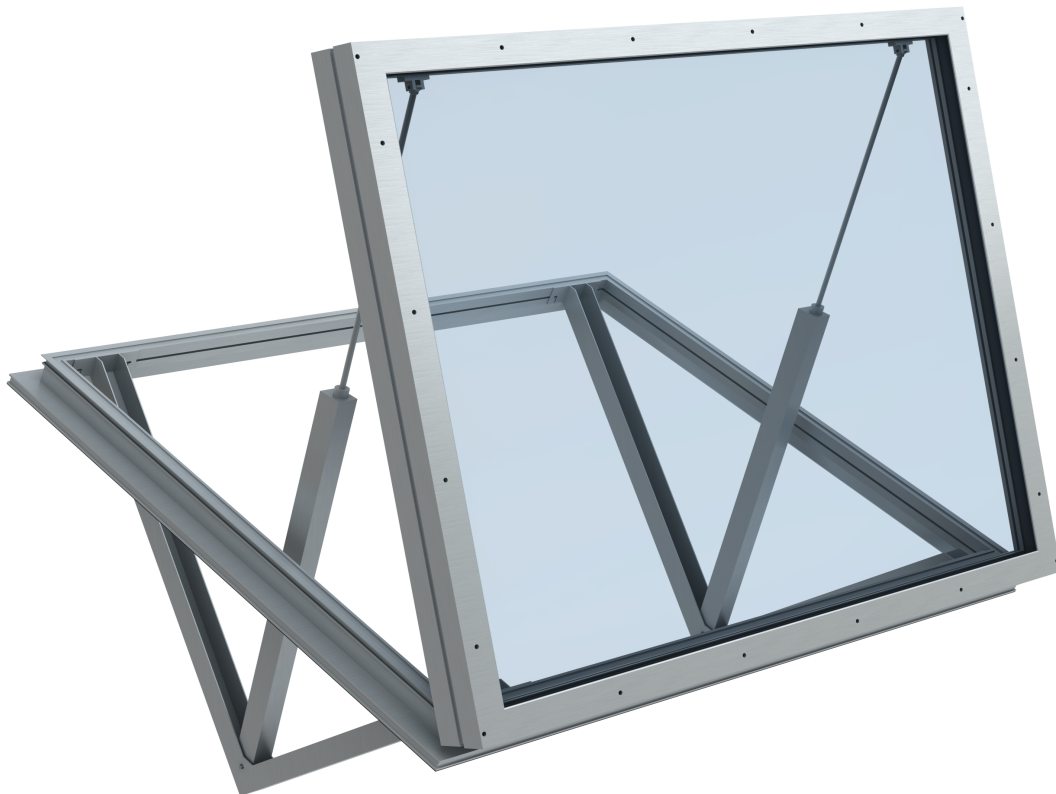




Kingspan Ventrilia Flexible Window for Natural Ventilation and Smoke Exhaust Data Sheet

Versatile, glazed window for natural ventilation and smoke & heat exhaust



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

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Kingspan
Light+Air

Application

Kingspan Ventría transparent top or bottom hung window provides natural ventilation and can be applied for smoke and heat exhaust according to EN 12101-2. Thanks to its attractive external design the Ventría is often integrated into glazed facades and glazed roofs for air feed and air extraction. The Ventría is available in uninsulated, insulated or thermally broken profiles and is suitable for all types of glass up to a thickness of 58 mm.

Applications: from industrial to decorative glazed roof constructions.

Controls

Compressed air cylinder, CO₂ control, electric spindle motors or rotary spindle with control block. Opening angle depends on the selected stroke length for the control mechanism. Kingspan Light+Air supplies the compressed air controls with a double-action compressed air cylinder that is locked in its open and closed state.



Technical Specifications

Designs

The Ventría is a hinged ventlight that can be incorporated into glazed roofs and glazed walls. The opening angle of the window in relation to the base structure is variable up to a maximum of 70°. The structure consists of tempered aluminium, sea water corrosion-resistant AlMg3. Extruded material made of AlMg Si 0.5. The frame is sealed with EPDM rubbers to ensure optimal sealing. The Ventría can be supplied both uninsulated (Ventría-O), insulated (Ventría G) and thermally broken (Ventría TG). The Ventría can be supplied in mill finish, anodised or powder-coated design (in any RAL colour). Amongst other things, the following infills can be integrated into this ventlight: single- or double-walled aluminium panel, laminated glass, insulated glass, double-walled and triple-walled polycarbonate.

Geometric surface

- up to a geometric surface of 6.12 m² (depending on length / width ratio and choice of controls)

Panel weight

- P2B / M24V (chain or spindle): maximum weight of the panel is 55 kg/m²
- PB-FS: maximum weight of the panel is 35 kg/m²

Alternative dimensions, panels and shapes can be supplied on demand.

Kingspan Ventría TG has been acoustically tested in various panel compositions with and without additional acoustic damping in base^{*)}.

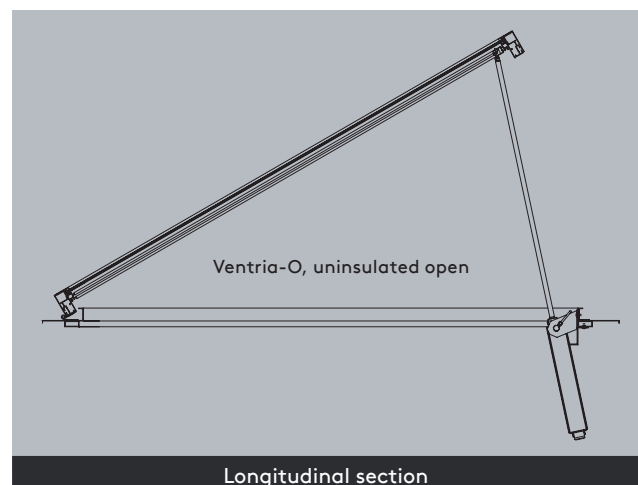
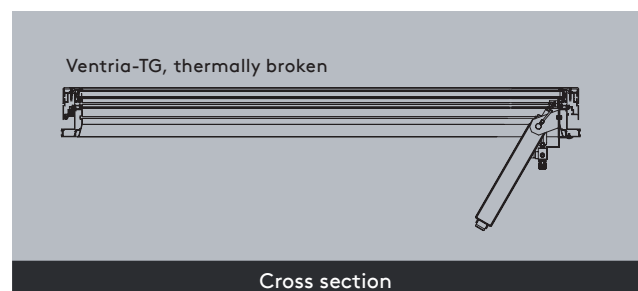
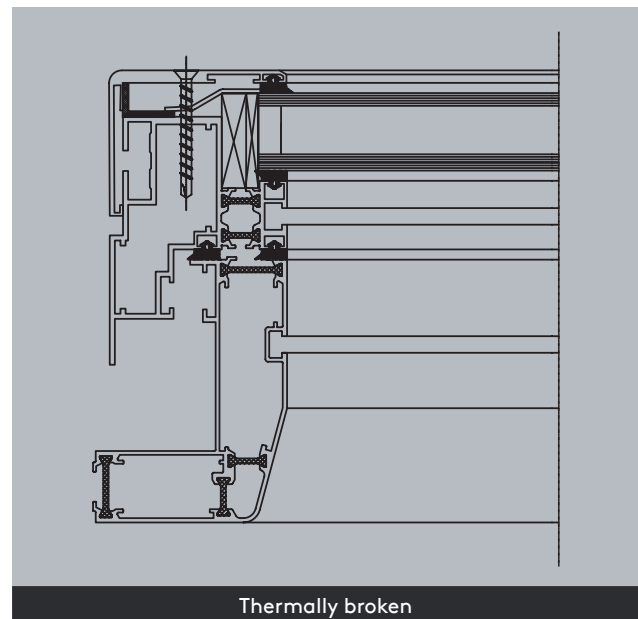
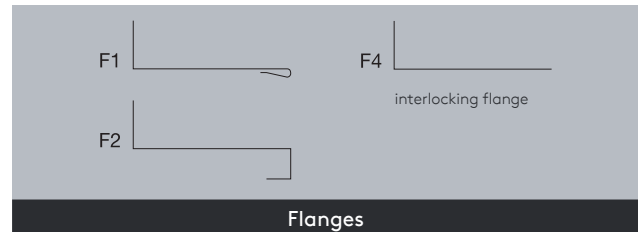
Sound Reduction Index (R_{wv}) and Sound Transmission Class (STC):

Panel type	R_{wv} (C), (Ctr) in dB	STC	Panel weight (kg/m ²)
	<i>from - to</i>	<i>from - to</i>	<i>from - to</i>
Sandwich panel	32 (-1), (-3) - 40 (-1), (-3)	32 - 40	29,8 - 74 ^{**)}
Insulation glass	31 (-1), (-3) - 37 (-1), (-3)	31 - 37	35 - 60 ^{**)}

^{*)} Inquire about detailed composition and intermediate values
^{**) not applicable for Smoke and Heat Exhaust Ventilation (SHEV)}

Regulations

The system is tested and certified in accordance with EN 12101-2.





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