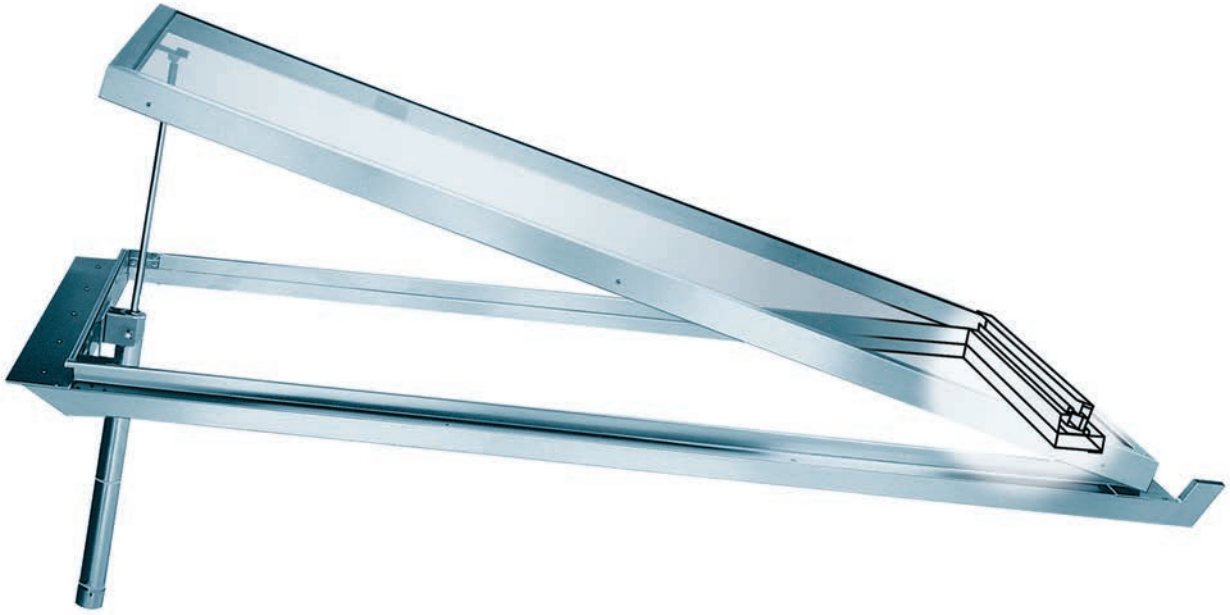
Light + Air
International

Kingspan Ventria

Versatile top or bottom hung ventlight Data Sheet

To be applied for natural ventilation as well as smoke and heat exhaust for roof and facade application



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

Application

Kingspan Ventria 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 Ventria is often integrated into glazed facades and glazed roofs for air feed and air extraction. The Ventria 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, CO_2 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 Ventria 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 Ventria can be supplied both uninsulated (Ventria-O), insulated (Ventria G) and thermally broken (Ventria TG). The Ventria 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 m^2 (depending on length / width ratio and choice of controls)

Panel weight

– P2B / M24V (chain or spindle): maximum weight of the panel is 55 kg/m^2

– PB-FS: maximum weight of the panel is 35 kg/m^2

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

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

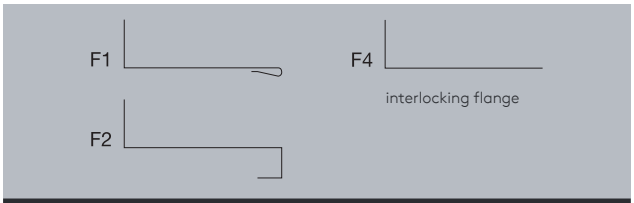
Sound Reduction Index (R_w) and Sound Transmission Class (STC):

Panel type	R_w, (C), (Ctr) in dB *from - to*	STC *from - to*	Panel weight (kg/m^2) *from - to*
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**)

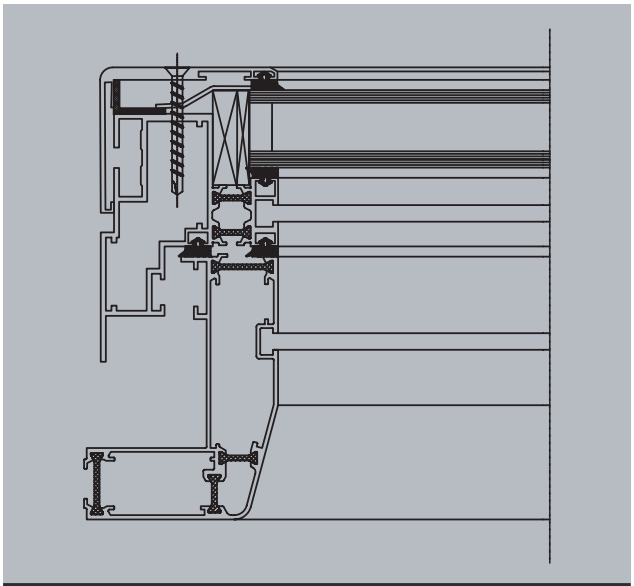
*) Inquire about detailed composition and intermediate values
**) not applicable for Smoke and Heat Exhaust Ventilation (SHEV)

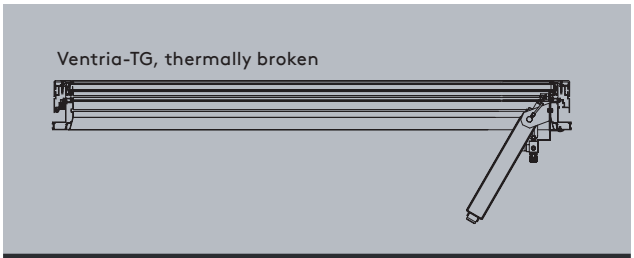
Regulations

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

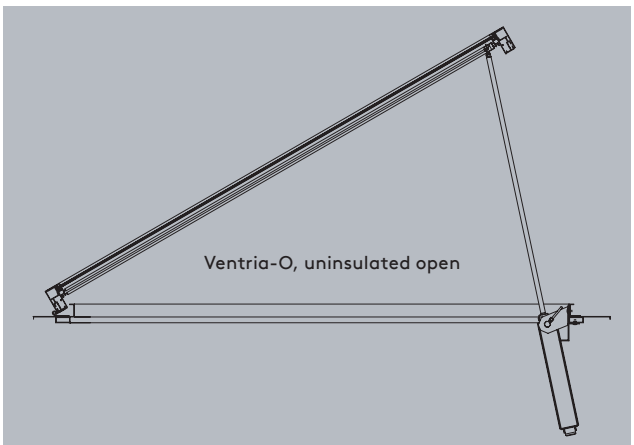


Flanges


Thermally broken



Cross section



Longitudinal section

INTERNATIONAL

Kingspan Light + Air
E: kla.international@kingspan.com
www.kingspanlightandairinternational.com

For the product offering in other markets please contact your local sales representative or visit www.kingspanlightandair.com

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