



Kingspan Inova

Stylish ventlight with concealed controls

Data Sheet

Stylish ventlight for natural ventilation as well as smoke and heat exhaust for facade application



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

Application

Kingspan Inova is a natural ventilation window that is suitable for natural, day-to-day ventilation and for smoke ventilation. The Inova - with its slim profile - is an aesthetic, high-grade ventlight for facade applications. The controls for the frame have been completely embedded in the structure.

Applications: atria, shopping centres, train stations and airports.

Designs

The Inova has an extremely slim profile which means that the system is ideally suited for use in facades.

The mounting angle is 90°, the opening angle in relation to the base structure is 30° as standard. The Inova is used for both day-to-day ventilation and smoke ventilation. The structure consists of a completely thermally broken aluminium profile section.

The design ensures that the external appearance has also been perfectly finished in detail. The frame is sealed with EPDM rubbers.



Technical Specifications

External appearance

Any rectangular shapes are possible as standard with:

- frame height of 780 - 2280 mm
- frame width of 780 - 2580 mm
- maximum panel surface area of 3.5 m²
- glass thickness 6-40 mm
- opening angle of 30° as standard (variations by agreement)

The weight depends on dimensioning and panel. The maximum weight of the panel is 45 kg/m².

Controls

The entire control system for the Inova is completely concealed inside the structure in its closed position. Gas springs or motors are not therefore visible, which means that the Inova can be used in any situation. It is also possible to very easily clean the window.

M chain motor 24V

MB chain motor 24V with electric fire switch

Extras: FS failsafe

Flanges

The flange thickness of the Inova can be varied from 5 mm to 55 mm.

Options

Inova is a thermally broken profile system and can be supplied as mill-finished, anodised or powdercoated (in any RAL colour). The infill panels can vary from 6 to 43 mm in thickness: from single laminated glass, multi-wall polycarbonate glazing, double glazing with safety glass to sandwich panels.

Regulations

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

Test results

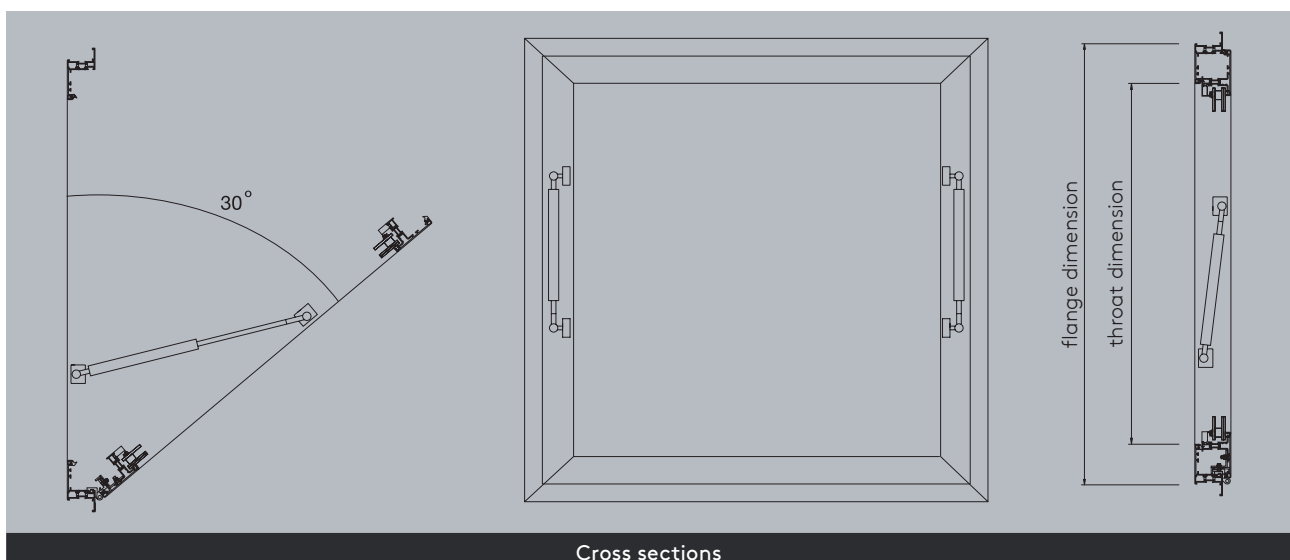
- EN 12101-2 approved: B300₃₀, Re1000, WL3000
- Type M(B)24V: SL 0, T(-15)
- U-value system available on request (depending on dimensions and infill panel)
- Air permeability: EN 1026: 600 Pa, EN 12207: class 4
- Watertightness: EN 1027: 600 Pa, EN 12208: class 9A
- Resistance to varying wind loads: class 3, 600 Pa (= P2)

Kingspan Inova 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 <i>from - to</i>	STC <i>from - to</i>	Panel weight (kg/m ²) <i>from - to</i>
Sandwich panel	35 (-3), (-7) - 36 (-1), (-4)	35 - 36	10 - 42
Insulation glass	36 (-1), (-5) - 46 (-2), (-6)	37 - 46	50 - 70

^{*)} Inquire about detailed composition and intermediate values



Cross sections

INTERNATIONAL

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