

Smoke ventilation system



For providing automatic smoke ventilation within stairwells or lobbies.

The system is provided as a complete package including GGL centre-pivot roof window, flashing, control unit, pre-fitted window motor, smoke sensor and break glass.

For 1m² of smoke ventilation the single GGL S06 roof window is provided and for 1.5m² a single GGL U08 size. For compliance to EN12101 pt 2, KFD smoke deflectors must be fitted.

For Geometric Smoke Ventilation areas our systems are tested and certified to EN ISO 12101-2 for Roof Pitches from 15-90°.

For Aerodynamic Smoke Ventilation areas our systems are tested and certified to EN ISO 12101-2 for Roof Pitches from 15-60°.

The roof windows can be automatically opened via the smoke detector or break glass point. Alternatively it is possible to operate the system from the control panel only. A battery back-up unit within the control system ensures continuity of power. The window can also be closed from the control unit or the break glass point.

10 year VELUX guarantee for the windows and parts, 3 year guarantee for the electrical items and blinds.

Application

Features

Operation

Guarantee



Installation for Pitched Roof
Smoke ventilation system can be combined with:

Flashing for
• Single installation
(Pitched Roof Only)



Installation products
• Insulation collar
• Underfelt collar
• Vapour barrier
(Pitched Roof Only)

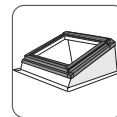


Interior variants:
Pine with triple coat finish, white paint or white polyurethane finish

Cladding variants:
Grey aluminium, titanium zinc, copper or other cladding types and colours

Installation for Flat Roof

Kerb & Flashing for flat roof
• Single installation

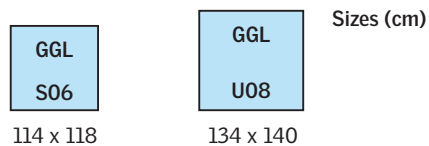
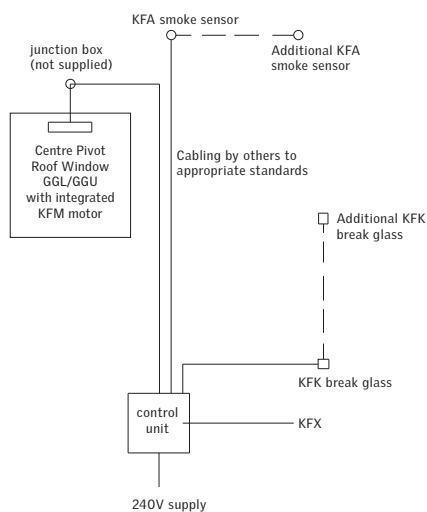


Pane variants:
(--73) Toughened outer pane with clear and clean coating and laminated inner pane for additional safety

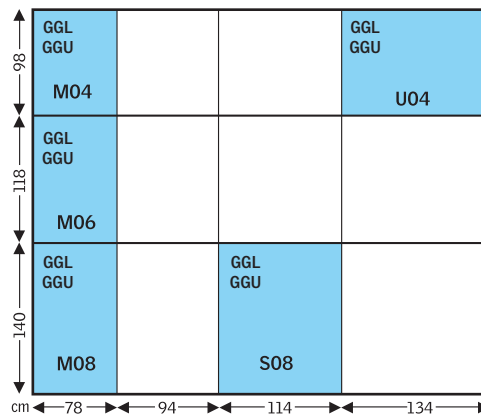
Variants

Technical data – Smoke ventilation system

Typical wiring diagram



Other sizes and types available.



Technical data

	Size	S06	U08
Ventilation flap – free area [10 ³ mm ²]		6.8	8.1
Ventilation flap – equivalent area [10 ³ mm ²]*		5.6	6.6
Smoke Ventilation – open window [m ²]		1.14	1.64
Effective daylight area [m ²]		0.90	1.34

*Measured to EN 13141-1

Pane variant	--73	EN/ISO Standard
Thermal transmittance, U _w [W/m ² K]	1.4	EN ISO 12567-2
Sound insulation, R _w [dB]	35	EN ISO 140-3/EN ISO 717-1
Air permeability	Class 3	EN 12207
Light transmittance, τ _v	0.77	EN 410
Total solar energy transmittance, g	0.54	EN 410