Smoke ventilation system

15°-90°

For providing automatic smoke ventilation within stairwells or lobbies.

Application

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.

Features

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

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.

Operation

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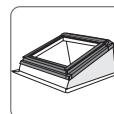
Guarantee

Integrated single or coupled centre-pivot roof window smoke ventilation system.

Smoke ventilation system can be combined with:

Combinations

Flashing for
• Single installation

Available as flat roof
• Single installation

Installation products
• Insulation collar
• Underfelt collar
• Vapour barrier

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

Variants

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

Pane variants:
(--73) Toughened outer pane with clear and clean coating and laminated inner pane for additional safety
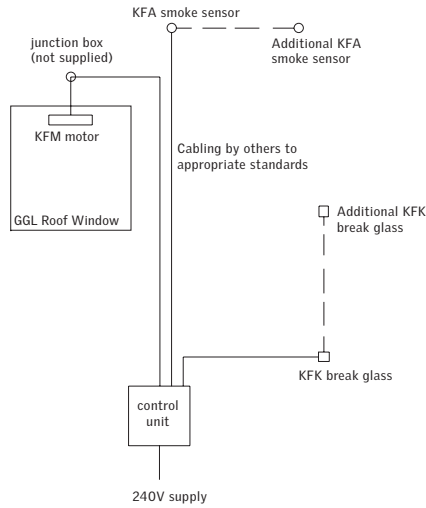
For more pane variants see section 8.

Technical data – Smoke ventilation system

Measurements (mm)

Measurements see section 3.01.01

Typical wiring diagram

KFA smoke sensor

junction box (not supplied)

Additional KFA smoke sensor

KFM motor

Cabling by others to appropriate standards

GGL Roof Window

Additional KFK break glass

KFK break glass

control unit

240V supply

Sizes (cm)

GGL S06	GGL U08
114 x 118	134 x 148

Other sizes/combinations of GGL are available.

Technical data

Size	S06	U08
Ventilation flap – free area [10^3mm^2]	6.8	8.1
Ventilation flap – equivalent area [10^3mm^2]*	5.6	6.6
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

Section 3.09.06