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 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.

Operation

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

Guarantee

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

Installation for Flat Roof

Variants

Flashing for
• Single installation
  (Pitched Roof Only)

Kerb & Flashing for flat roof
• Single installation

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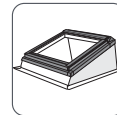• Underfelt collar
• Vapour barrier
  (Pitched Roof Only)

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

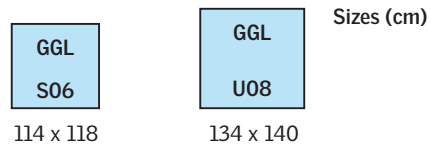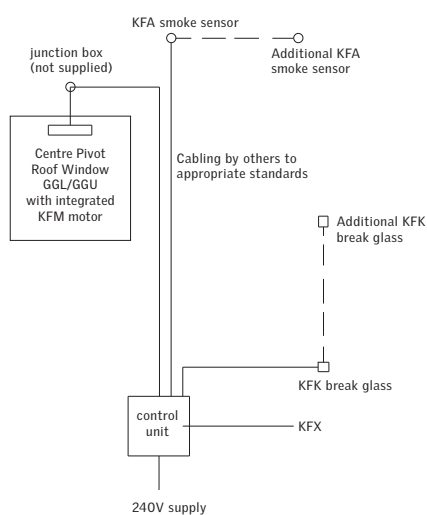**Pane variants:**
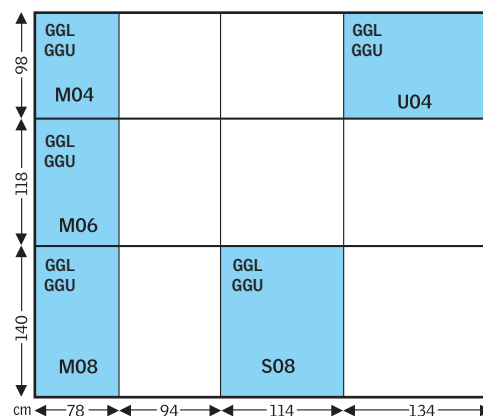(--73) Toughened outer pane with clear and clean coating and laminated inner pane for additional safety

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

Technical data – Smoke ventilation system

**Typical
wiring diagram**

KFA smoke sensor

junction box
(not supplied)

Additional KFA
smoke sensor

Centre Pivot
Roof Window
GGL/GGU
with integrated
KFM motor

Cabling by others to
appropriate standards

Additional KFK
break glass

KFK break glass

control
unit

KFX

240V supply

Sizes (cm)

GGL	GGL
S06	U08

114 x 118   134 x 140

Other sizes and types available.

GGL GGU **M04**			GGL GGU **U04**
GGL GGU **M06**			
GGL GGU **M08**	GGL GGU **S08**		

98 / 118 / 140

cm — 78 — 94 — 114 — 134 —

Technical data

Size	S06	U08
Ventilation flap – free area [10³mm²]	6.8	8.1
Ventilation flap – equivalent area [10³mm²]*	5.6	6.6
Smoke Ventilation – open window [m²]	1.14	1.64
Effective daylight area [m²]	0.90	1.34

*Measured to EN 13141-1

Pane variant	--73	EN/ISO Standard
Thermal transmittance, U_W [W/m²K]	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