

4DK/2012/0630
- 5 NOV 2012

5 NOV 2012
VELUX®

GGL/GGU ----40



VAS 451887-2011-07

Smoke ventilation system



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.

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:

Flashing for
• Single installation



Available as flat roof
• Single installation



Installation products
• Insulation collar
• Underfelt collar
• Vapour barrier



Combinations

Interior variants:

Pine with triple coat finish or white paint finish

Cladding variants:

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

Pane variants:

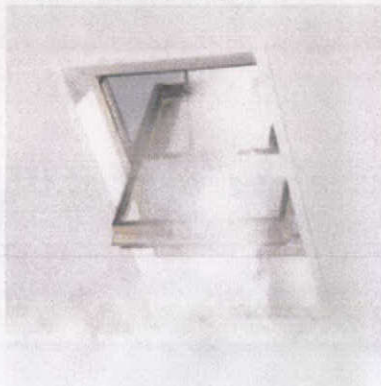
(-73) Toughened outer pane with clear and clean coating and laminated inner pane for additional safety

For more pane variants see section 8.

Variants

Section 3.09.05

Smoke Ventilation Systems



Natural smoke and heat exhaust ventilators keep escape and fire brigade access routes free by leading smoke and heat up and out of a burning building. This means that buildings retain their fire-resistant properties and that damage to valuable assets is limited as much as possible.

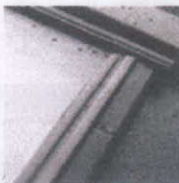
Natural smoke and heat exhaust ventilators are typically used in common access areas such as stairways and annex connections as well as in industrial buildings and offices.

The VELUX Smoke Ventilation System – a complete natural smoke and heat exhaust ventilator system, facilitates compliance with building regulations on smoke ventilation.

Brochures

Here you can find our range of brochures to order or download.

[See our brochures](#)



Flashings



Installation
Instructions



Blinds

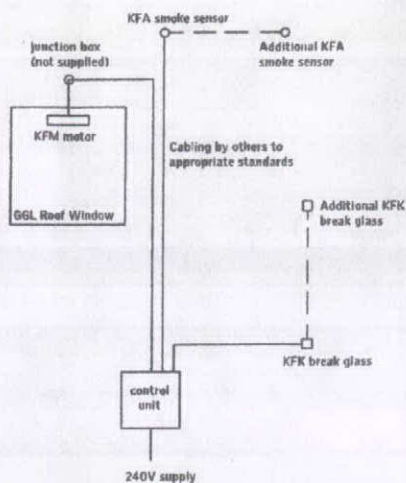
Further technical information on the Smoke Ventilation System

Technical data – Smoke ventilation system

Measurements
(mm)

Measurements see section 3.01.01

Typical
wiring diagram



GGL
S06

114 x 118

GGL
U08

134 x 148

Sizes (cm)

Other sizes/combinations of GGL are available.

Technical data

	Size	S06	U08	Pane variant	-73	EN/ISO Standard
Ventilation flap – free area [10^{-2}m^2]	6.8	8.1		Thermal transmittance, U_w [$\text{W/m}^2\text{K}$]	14	EN ISO 12567-2
Ventilation flap – equivalent area [10^{-2}m^2]*	5.6	6.6		Sound insulation, R_w [dB]	35	EN ISO 140-3/EN ISO 717-1
Ventilation – open window [m^2]	114	164		Air permeability	Class 3	EN 12207
Effective daylight area [m^2]	090	134		Light transmittance, τ_v	0.77	EN 410
*Measured to EN 13141-1				Total solar energy transmittance, g	0.54	EN 410