

VELUX smoke ventilation roof window GGU

VELUX®

Glazing 66SG



Increase personal safety and building safety in the event of fire with a VELUX smoke ventilation window. The window automatically opens when smoke is detected to quickly release smoke and excess heat and meets EU requirements. Can also be opened to let in fresh air for comfort ventilation. Exterior design matches other VELUX roof windows Requires a control system to be activated.

- Opens to full fire position in just 60 seconds when smoke ventilation is activated.
- Maintain the exterior look of your building with VELUX smoke ventilation windows.
- Fully complies with current and expected future CE standards and regulations.
- Gas springs open the window fast to allow smoke and excess heat to quickly escape.
- Wind deflector (add-on) enhances aerodynamic free areas to quickly let out heat and smoke. (Required in certain types of buildings).
- Prepared for connection to optional non-VELUX alarm systems for central control.
- Comes in a wide range of sizes for installation in virtually any building project.



Application guidance

The window can be installed in roof pitches between 15° and 60° to the horizontal.



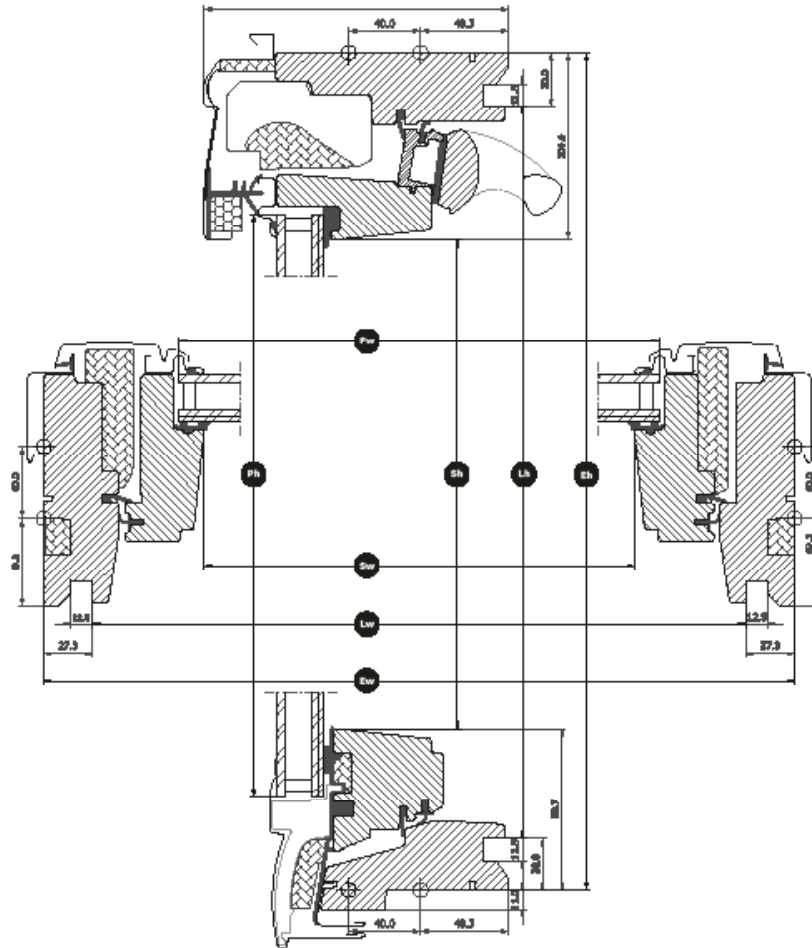
When smoke is detected, the window automatically opens to quickly release smoke and excess heat. The window meets EU requirements. VELUX smoke ventilation roof windows can also be opened to let in fresh air for comfort ventilation.

Available sizes and daylight area

	780
1178	GGU MK06 (0.59)
1398	GGU MK08 (0.72)

All measurements are in mm. () = Effective daylight area, m²

Cross section dimensions



Width		MK--
Sw	Sash aperture width	601
Lw	Distance between lining grooves, width	725
Ew	Exterior frame width	780

Height		--06	--08
Sh	Sash aperture height	984	1204
Lh	Distance between lining grooves, height	1119	1339
Eh	Exterior frame height	1178	1398

Glazing features

Glazing 66SG		
	Heat insulation The low energy glazing unit reduces heat loss through the window and enhanced indoor comfort.	$U_g = 0.6$
	Solar gain In colder climates and in rooms with large window areas, solar gain provides a better indoor climate during winter periods.	$g = 0.44$
	Solar protection In warm climates and in rooms with large window areas, a sun protective glazing unit provides a better indoor climate during summer periods.	★★★★☆
	Sound insulation A combination of laminated glass and extra thick glass provides better sound insulation against noise from outside (traffic, playgrounds, etc).	R_w dB = 37(-2;-4)
	Security Thicker laminated inner glass increases resistance to manual attack (burglary).	★★★★☆
	Safety lamination Prevents glass from falling into the room in case of accidental breakage.	✓
	Toughened glass Adds strength to the outer pane to protect from wayward balls and extreme weather such as heavy storms and hail.	✓
	UV filter Protects your interior furnishings from fading due to the sun's harmful UV rays.	✓
	Rain noise reduction Rain noise reduction creates a barrier between the window and the weather outside for undisturbed moments during rainy days – or nights.	✓
	Easy-to-clean Dirt-repellent coating lets you spend less time cleaning and more time enjoying the view.	✓
	Anti-dew The anti-dew coating significantly reduces the days with dew on the outer glass and thus gives you a clear view.	✓

Glazing structure

Glazing unit	Composition (from inside to outside)
Triple-glazed	6.8 mm laminated inner glass with coating - 13 mm argon - 3 mm heat strengthened middle glass with coating - 13 mm argon - 4 mm toughened outer glass with coatings

Technical values for the window

Overview of technical values for the product, covering CE marking in accordance with EN 14531 and other EN standards.

Window characteristics	Performance
Thermal transmittance (U-value)	1.0 W/(m ² K)
Light transmittance (τ _v)	0.62
Total solar energy transmittance (g-value)	0.44
Sound insulation	37(-2;-4)
Air permeability	3
External fire performance - British	AC
External fire performance - European	npd
Impact resistance	3
Load-bearing capacity of safety	npd
Reaction to fire	E
Resistance to snow load	See glazing composition
Resistance to wind load	C3 (>SK08: NPD)
Water tightness	E900

Visible features



Window operator, smoke ventilation

Fully-integrated electric motor in the top of the frame is operated by remote control or when the sensors detect smoke.



Gas spring, smoke ventilation (Sizes --08)

When smoke ventilation is activated, the gas springs will ensure that the sash opens completely (Only for roof windows with height 08).



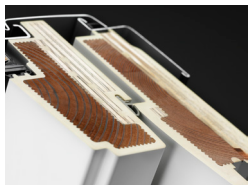
Blind bracket, manual

Easily install blinds on the window without the need for extra tools using the VELUX Pick&Click™ system.



Barrel bolt

The barrel bolt can be placed into the integrated barrel bolt bushing to secure the window for cleaning of outer glass surface or for safe ventilation.



Excellent insulation

High performance insulation materials in the window construction and thermally modified timber core increase the energy efficiency of the window.



Data plate

Every VELUX roof window has a unique data plate with information that can be used to look up CE marking documentation, when purchasing accessories or in case of service or replacement.

Interior finish

Material Description	White maintenance-free Finished with polyurethane lacquer.
Colour code NCS, inner surface	S 0500-N
Colour code nearest RAL, inner surface	9003

Exterior covers

Material Description	Aluminium, dark grey Dark grey
Colour code NCS, outer surface	S 7500-N
Colour code nearest RAL, outer surface	7043

Cleaning and maintenance



Frame and sash can be cleaned with ordinary household cleaners. If necessary, the outer glass surface is cleaned from the outside.



VELUX repair and maintenance kits are available.

Guarantee period

Flashings and installation products



Flashings

Install the VELUX roof window in virtually any roofing material by using genuine VELUX flashing solutions. Our flashings are designed specifically for the exact size and shape of the roof windows to create perfect, watertight fit. Flashings can also be used to combine multiple roof windows.

Installation products

Ensure a proper installation and an air- and watertight connection between the window and roof with VELUX installation products. All installation products are designed to perfectly fit the roof window for a reliable and durable result.

Blinds, awnings and shutters

Complete the VELUX roof window installation with roller shutters and awning blinds for heat protection and interior blinds for light dimming, blackout and insect protection. Choose from a wide range of manually operated or remote-controlled products that are made to fit the particular window type and size. Please contact your local VELUX sales company for more details about compatibility.

Further information

We reserve the right to make technical changes.

For more information on our products, please visit <https://velux.com>.