

VELUX smoke ventilation roof window GGU



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 CE standards and regulations.
- Gas springs open the window fast to allow smoke and excess heat to quickly escape.
- Wind deflector enhances aerodynamic free areas to quickly let out heat and smoke. (Required in certain types of buildings).
- Prepared for connection to external alarm systems for central control.
- Comes in a wide range of sizes for installation in virtually any building project.



Application guidance operation method

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



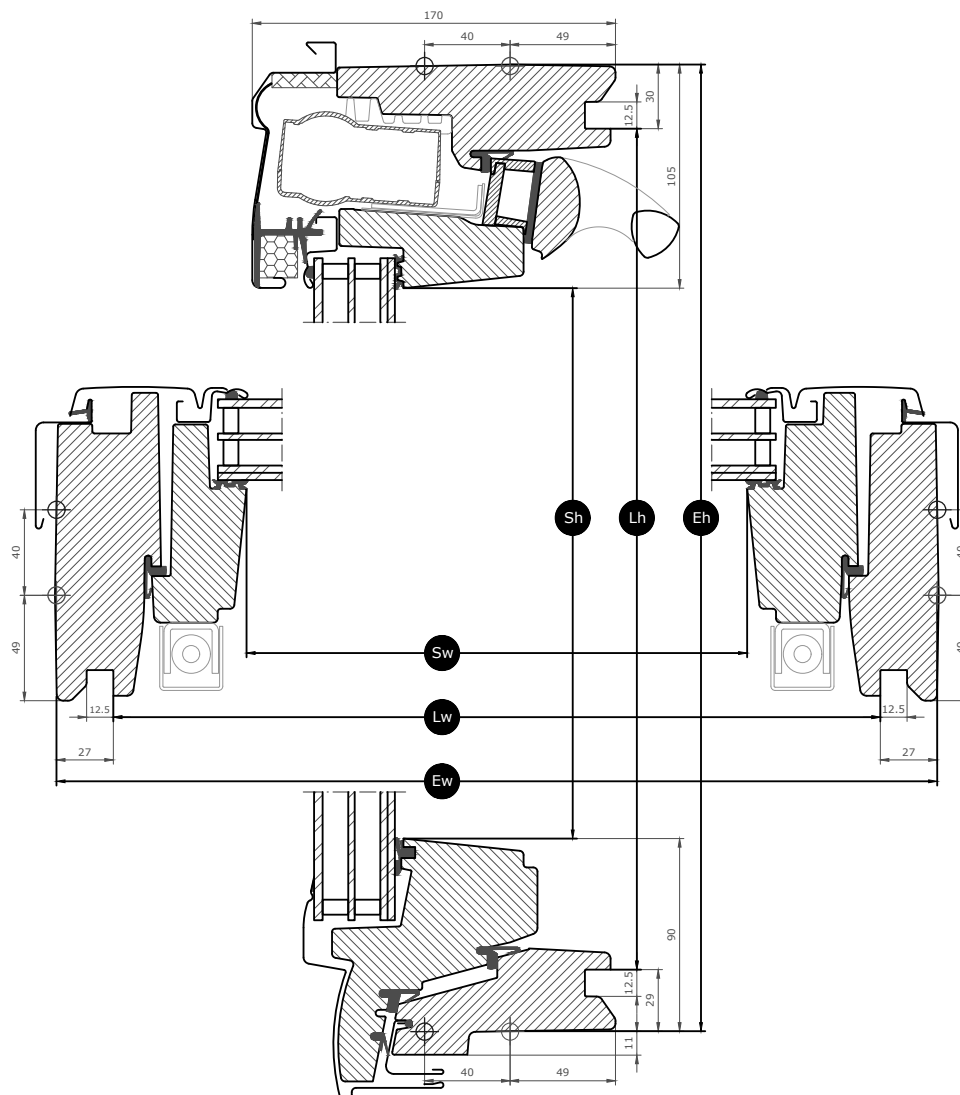
When smoke is detected, the window automatically opens to quickly release smoke and excess heat. The window meets EU requirements. VELUX smoke ventilation roof windows can also be opened to let in fresh air for comfort ventilation.

Available sizes and daylight area

	780	942	1140	1340
978	GGU MK04 (0.47)			GGU UK04 (0.91)
1178	GGU MK06 (0.59)	GGU PK06 (0.75)	GGU SK06 (0.95)	
1398	GGU MK08 (0.72)	GGU PK08 (0.92)	GGU SK08 (1.16)	GGU UK08 (1.40)

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



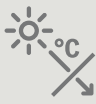








Cross section dimensions



Width		MK--	PK--	SK--	UK--
Sw	Sash aperture width	601	763	961	1161
Lw	Distance between lining grooves, width	725	887	1085	1285
Ew	External frame width	780	942	1140	1340

Height		--04	--06	--08
Sh	Sash aperture height	784	984	1204
Lh	Distance between lining grooves, height	919	1119	1339
Eh	External frame height	978	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 the wintertime, the heat from the sun entering through the windows is a usable solar gain.	$g = 0.44$
	Solar protection In warm climates and in rooms with large window areas, a sun protective coating provides a better indoor climate during summer periods.	★★★★☆
	Security Thicker laminated inner glass increases resistance to manual attack (burglary).	★★★★☆
	Safety Laminated inner glass is designed to hold the fragments together if the glass breaks. We recommend that you consider using glass units with laminated glass on the inside for windows placed above areas where people sleep, play or work.	✓
	Outside strength Toughened outer glass makes your glazing more resistant to hail, heavy wind and snow loads.	✓
	Delayed fading of material Laminated inner glass protects materials behind the glass against UV radiation and therefore delays fading of the materials.	✓
	Rain noise reduction The combination of laminated glass and extra thick glass helps provide a significant, audible reduction of rainfall sound.	✓
	Easy-to-clean The easy-to-clean coating minimises the cleaning frequency of the outer glass and gives you a clearer view in case of rain.	✓
	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	Variant composition
Triple-glazed	6.8 mm laminated float glass - 13 mm Argon - 3 mm heat strengthened glass - 13 mm Argon - 4 mm toughened glass

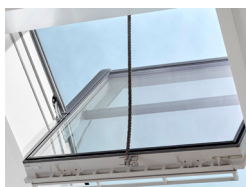
Technical values for the window

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

Window characteristics	Performance
Thermal transmittance	1.0 W/(m ² K)
Light transmittance	0.62
Total solar energy transmittance	0.44
Sound insulation	37(-2;-4)
Air permeability	3
External fire performance - British	AC
External fire performance - European	npd
Impact resistance	2
Load-bearing capacity of safety devices	npd
Reaction to fire	D-s2,d2
Resistance to snow load	See glazing composition
Resistance to wind load	C3 (>SK08: NPD)
Water tightness	E900

NPD: No performance determined

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.



Rain sensor (add on)

The window closes automatically in the event of rain. This function is overridden in case of fire.



Gas spring, smoke ventilation

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



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Blind bracket, manual

Easily install blinds on the window without the need for extra tools. Simply click on the blind in the pre-fitted brackets.

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	Untreated copper
Colour code NCS, outer surface	S 7500-N	No colour code
Colour code nearest RAL, outer surface	7043	No colour code

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



3 years for electrics The full terms and conditions of the VELUX Product Guarantee are available on our website www.velux.co.uk

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 a perfect, watertight fit. Flashings can also be used to combine multiple roof windows.

Installation products

Ensure a proper insulation 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://www.velux.co.uk>