

# VELUX electric roof window GGU

Glazing 66SG



The VELUX electric, centre-pivot roof window GGU is a wired solution that operates remotely using a control pad – perfect for both in- and out-of-reach installations. The roof window has an integrated motor and a rain sensor that automatically closes the window if it rains. Moisture-resistance makes it ideal for kitchens and bathrooms.

- Rain sensor automatically closes the window in the event of rain.
- Electric-powered to allow for complete, seamless integration of your roof window into your home.
- The motor is hidden in the top cover and totally invisible from view.
- Entrapment control detects objects in the path of the window.
- Compatible with VELUX ACTIVE with NETATMO for a better indoor climate with sensor-based ventilation. Remote controlled via smartphone or voice.
- Silent motor keeps rooms quiet for sleeping children or simply for improved well-being.
- The io-homecontrol® platform ensures very high and future-proof system security.



## Application guidance

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The window can be installed in roof pitches between 15° and 90° to the horizontal.



VELUX electric and solar roof windows are easily operated by a control pad, providing fresh air at the touch of a button. Perfect for both within-reach and out-of-reach applications where extra comfort and convenient operation is required. For optimum daylight, choose larger windows for lower roof pitches.

## Available sizes and daylight area

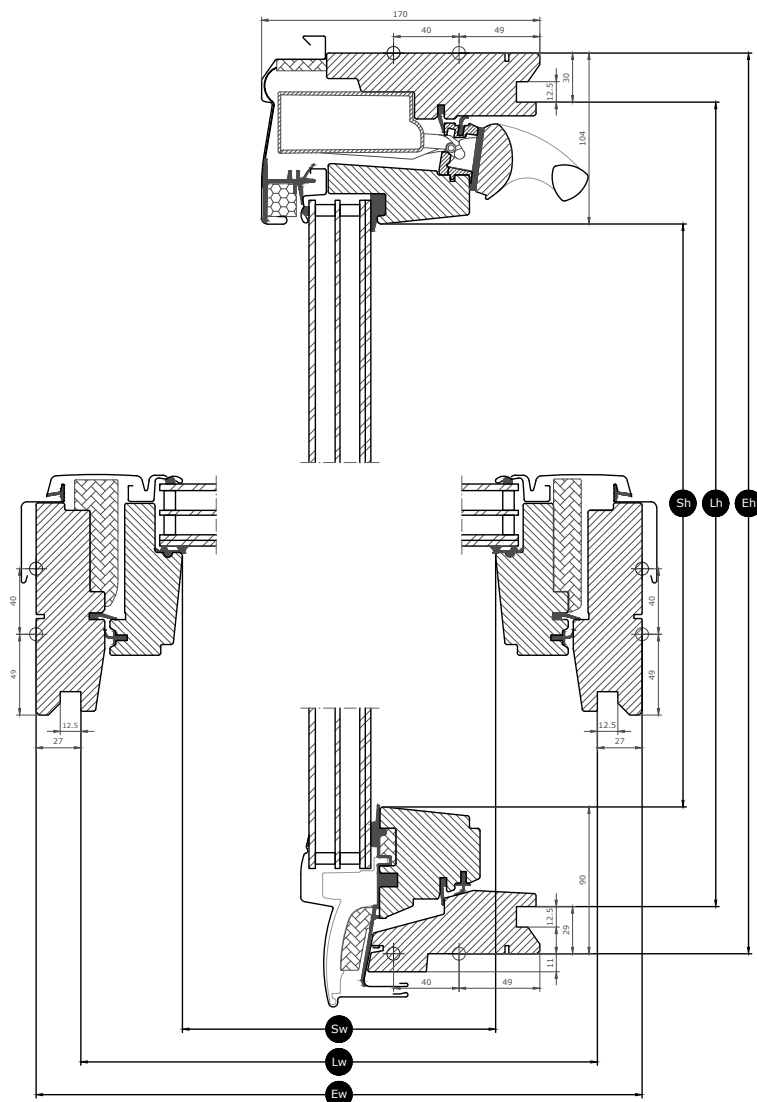
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	780 mm
1398 mm	GGU MK08  (0.72) [0.28]

All measurements are in mm. ( ) = Effective daylight area, m<sup>2</sup> [ ] = Geometric free area, m<sup>2</sup>

# Cross section dimensions

Please note that the view of the cross section is from bottom to top.



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

Height		--08
Sh	Sash aperture height	1204
Lh	Distance between lining grooves, height	1339
Eh	External frame height	1398

## Glazing features

Glazing 66SG		
	<b>Heat insulation</b> The low energy glazing unit reduces heat loss through the window and enhanced indoor comfort.	$U_g = 0.6$
	<b>Solar gain</b> In colder climates and in rooms with large window areas, solar gain provides a better indoor climate during winter periods.	<b>0.44</b>
	<b>Solar protection</b> In warm climates and in rooms with large window areas, a sun protective glazing unit provides a better indoor climate during summer periods.	★★★★☆
	<b>Security</b> Thicker laminated inner glass increases resistance to manual attack (burglary).	★★★★☆
	<b>Safety lamination</b> Prevents glass from falling into the room in case of accidental breakage.	✓
	<b>Toughened glass</b> Adds strength to the outer glass surface to protect from wayward balls and extreme weather such as heavy storms and hail.	✓
	<b>UV filter</b> Protects your interior furnishings from fading due to the sun's harmful UV rays.	✓
	<b>Rain noise reduction</b> Rain noise reduction creates a barrier between the window and the weather outside for undisturbed moments during rainy days – or nights.	✓
	<b>Easy-to-clean</b> Dirt-repellent coating lets you spend less time cleaning and more time enjoying the view.	✓
	<b>Anti-dew</b> 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	6.8mm laminated float glass - 13mm Argon - 3mm heat strengthened glass - 13mm Argon - 4mm toughened glass

## Technical values for the window

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Overview of technical values for the product, covering among other, CE marking in accordance with EN 14351-1.

Window characteristics	Performance
Thermal transmittance	1.0 W/(m <sup>2</sup> K)
Light transmittance	0.62
Total solar energy transmittance	0.44
Sound insulation	37(-2;-4)
Air permeability	4 (PK10: 3)
External fire performance - British	AC
External fire performance - European	npd
Impact resistance	3
Load-bearing capacity of safety devices	√
Reaction to fire	D-s3,d2
Resistance to snow load	See glazing composition
Resistance to wind load	C3 (>SK08: NPD)
Water tightness	E900

NPD: No performance determined

## Visible features

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**Window operator, electric**

Fully-integrated mains-powered motor is hidden from view in the top of the frame and is operated by remote control.

**Ventilation flap**

The full-width ventilation flap can be used for ventilation even with a closed window.

**Blind bracket, electric**

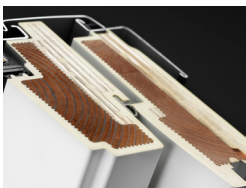
Easily install electric blinds on the window without the need for extra tools. Simply click on the blinds in the pre-fitted brackets and they are connected for remote control.

**Frame hinge, centre-pivot, side**

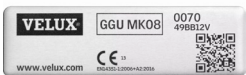
Durable hinge design allows for reliable operation and enables the sash to be rotated for easy cleaning of the outer glass.

**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

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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

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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

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To clean the outer glass surface from the inside, rotate sash and secure in cleaning position with barrel bolts.



VELUX repair and maintenance kits are available.

## Guarantee period

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All electrical components have a 3 year guarantee period.

## Flashings and installation products

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### 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

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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.

## VELUX ACTIVE with NETATMO compatible

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Compatible with VELUX ACTIVE with NETATMO for a better indoor climate with sensor-based ventilation. Remote controlled via smartphone or voice.



## Further information

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We reserve the right to make technical changes.

For more information on our products, please visit <https://www.velux.co.uk> or <https://www.velux.ie>.

## Technical information

<b>VELUX electric roof window GGU</b>	<b>Installation and use</b>	The window is classified in protection class IP44. The window operator is hidden in the top cover and functions at temperatures between -10 °C and +60 °C. Installation in rooms with a high level of humidity must comply with relevant regulations (contact a qualified electrician if necessary).
	<b>Window opening</b>	The window operator permits a maximum opening of 200 mm within 35 seconds. Due to a shorter chain, small/special window sizes have a different window opening. Window opening for sizes --K01 and --K02 = 135 mm. Window opening for sizes --K25 and --K27 = 38 mm. The chain engages and disengages automatically when the window is closed.
	<b>Compatibility</b>	The roof window is based on radio frequency (RF) technology, 868 MHz range, and is compatible with other VELUX products with the io-homecontrol® logo. The roof window is prepared for subsequent installation of VELUX electric interior and exterior decoration and sunscreening products. It is compatible with all VELUX electric and solar decoration and suncreening products but we recommend using the electric ones. Connection to non-compatible products may cause damage or malfunction.
<b>Control pad</b>	<b>Connection</b>	The window is equipped with a 7.5 m 2-core cable (H05VV-F) with a standard mains plug for connection to the mains supply (2.5 m for the UK).
	<b>Materials</b>	ABS plastic, white (NCS S 1000-N), black (RAL 9005) and metallic grey.
	<b>Size and weight description</b>	95 x 95 x 23 mm (W x H x D), 114 g (with batteries 184 g).
	<b>Installation and use</b>	The control pad is for indoor use, maximum ambient temperature 50 °C. Radio frequency range: 200 m free field. Depending on building construction, the indoor range is approximately 20 m.
<b>Integrated rain sensor</b>	<b>Power consumption</b>	3 x alkaline AA/LR6 (1.5 V) batteries. Expected battery lifetime: Approximately 1 year.
	<b>Materials</b>	Gold-coated sensor, Grey (RAL 7022)
	<b>Size and weight description</b>	N/A
<b>Window operator, electric</b>	<b>Power consumption</b>	N/A
	<b>Materials</b>	Motor casing of polybutulene terephthalate (PBT) with glass fibre, black (NCS S 9000-N). Stainless steel chain.
	<b>Size and weight description</b>	362 x 50 x 110 mm (W x H x D), 0.987 kg
	<b>Power consumption</b>	230/240 V a.c. – 50 Hz / 40 VA. Stand-by power consumption (including rain sensor): max 0.5 W. Additional stand-by power consumption for MML, SML or DML: 0.6 W. The operation of window and sunscreening product (3 cycles per day) will increase the energy consumption by approx 2 kWh/year.
	<b>Motor capacity</b>	Traction capacity: Min 225 N Pressure capacity: Min 150 N