# VELUX electric roof window GLU

## Glazing 64








The VELUX electric, centre-pivot roof window GLL adds comfort and convenience to your daily life. The built-in rain sensor ensures total peace of mind by automatically closing your roof windows at the first sign of rain.
The window is a wired solution that operates remotely using a basic wall switch - perfect for both in-reach and out-of-reach installations.
Moisture-resistance makes it ideal for kitchens and bathrooms.

- Rain sensor automatically closes the window in the event of rain.
- Mains-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.
- Easily control your roof window with the wireless wall switch that offers simple open/close/stop functionality.
- Entrapment control detects objects in the path of the window.
- Silent motor keeps rooms quiet for sleeping children or simply for improved well-being.
- Compatible with VELUX ACTIVE with NETATMO for a better indoor climate with sensor-based ventilation. Remote controlled via smartphone or voice.

CE

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# Application guidance

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



VELUX electric roof windows are easily operated by a wireless wall switch, 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.

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# Available sizes and daylight area

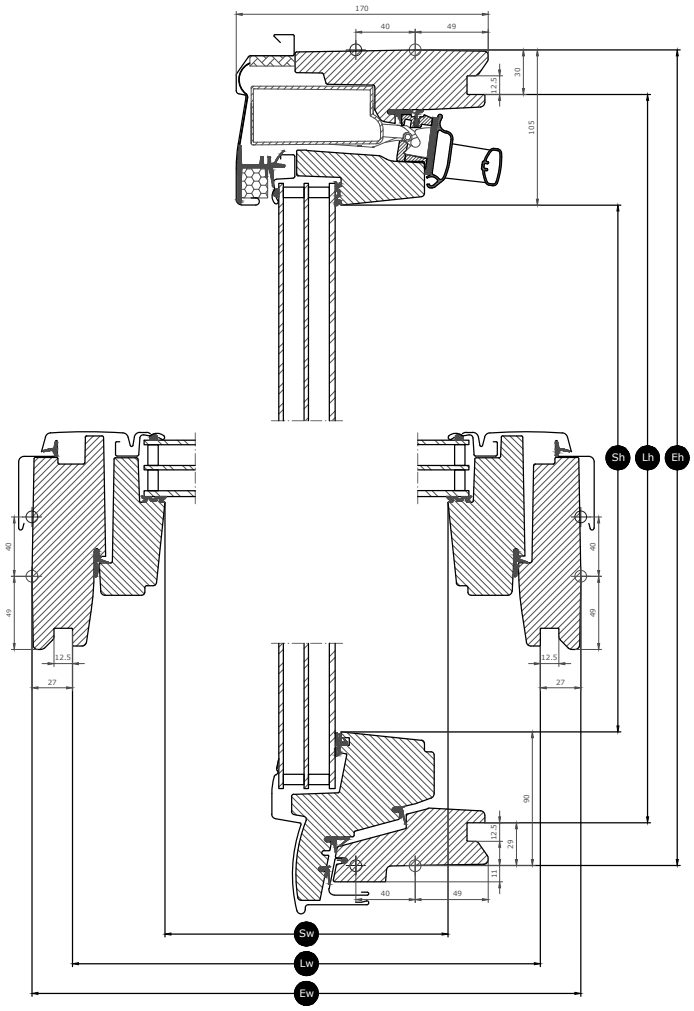
| | 550 mm | 660 mm | 780 mm | 942 mm |
|---|---|---|---|---|
| 778 mm | GLU CK02<br>(0.22)<br>[0.10] | | | |
| 978 mm | | | GLU MK04<br>(0.47)<br>[0.28] | |
| 1178 | | GLU FK06<br>(0.47)<br>[0.24] | GLU MK06<br>(0.59)<br>[0.28] | |
| 1398 | | | GLU MK08<br>(0.72)<br>[0.28] | GLU PK08<br>(0.92)<br>[0.33] |
| 1600 | | | GLU MK10<br>(0.85)<br>[0.28] | |

All measurements are in mm. ( ) = Effective daylight area, $m^2$ [ ] = Geometric free area, $m^2$

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# Cross section dimensions

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




| Width | | CK-- | FK-- | MK-- | PK-- |
|---|---|---|---|---|---|
| Sw | Sash aperture width | 371 | 481 | 601 | 763 |
| Lw | Distance between lining grooves, width | 495 | 605 | 725 | 887 |
| Ew | Exterior frame width | 550 | 660 | 780 | 942 |

| Height | | --02 | --04 | --06 | --08 | --10 |
|---|---|---|---|---|---|---|
| Sh | Sash aperture height | 584 | 784 | 984 | 1204 | 1406 |
| Lh | Distance between lining grooves, height | 719 | 919 | 1119 | 1339 | 1541 |
| Eh | Exterior frame height | 778 | 978 | 1178 | 1398 | 1600 |

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# Glazing features

| Glazing 64 | |  |
|---|---|---|
| | **Heat insulation**<br>The low energy glazing unit reduces heat loss through the window and enhanced indoor comfort. | $U_g$ = 0.6 |
| | **Solar gain**<br>In colder climates and in rooms with large window areas, solar gain provides a better indoor climate during winter periods. | 0.45 |
| | **Solar protection**<br>In warm climates and in rooms with large window areas, a sun protective glazing unit provides a better indoor climate during summer periods. | ★★★☆ |
| | **Security**<br>Thicker external glazing increases resistance to attempts to break glass (burglary). | N/A |
| | **Safety lamination**<br>Prevents glass from falling into the room in case of accidental breakage. | |
| | **Toughened glass**<br>Adds strength to the outer glass surface to protect from wayward balls and extreme weather such as heavy storms and hail. | ✓ |
| | **UV filter**<br>Protects your interior furnishings and flooring from fading due to the sun's harmful UV rays. | |
| | **Rain noise reduction**<br>Rain noise reduction creates a barrier between the window and the weather outside for undisturbed moments during rainy days – or nights. | ✓ |
| | **Easy-to-clean**<br>Dirt-repellent coating lets you spend less time cleaning and more time enjoying the view. | ✓ |
| | **Anti-dew**<br>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 mm float glass - 13 mm Argon - 3 mm heat strengthened glass - 13 mm Argon - 4 mm toughened glass |

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# Technical values for the window

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

| Window characteristics | Performance |
|---|---|
| Thermal transmittance (U-value) | 1.0 W/(m²K) |
| Light transmittance (τ,v) | 0.63 |
| Total solar energy transmittance (g-value) | 0.45 |
| Sound insulation (Rw) | 35(-1;-3) dB |
| Air permeability, [class] | 4 |
| External fire performance - British [class] | AC |
| External fire performance - European [class] | npd |
| Impact resistance [class] | 2 |
| Load-bearing capacity of safety devices | ✓ |
| Reaction to fire [class] | D-s3,d0 |
| Resistance to snow load | See glazing composition |
| Resistance to wind load [class] | C3 (>SK08: NPD) |
| Water tightness [class] | E900 |

NPD: No Performance Determined

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# Visible features



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



**Integrated rain sensor**
The window closes automatically in the event of rain or is prevented from opening thanks to the rain sensor.



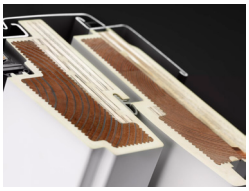
**Pre-paired wall switch**
The convenient wall switch makes it easy to operate the electric or solar roof window. The wall switch has open/stop/close functionality and allows for grouping several of the same type of products in one switch.



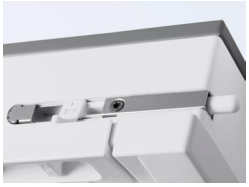
**Blind bracket, electric**
Easily install electric blinds on the window without the need for extra tools. Simply click on the blinds in the pre-fitted brackets and they are connected for remote control.



**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.



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



**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.

## Interior finish

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

## Exterior covers

The availability of the variants listed below may change. For the most accurate and up to date information, please refer to the current product catalogue or price list.

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

## Cleaning and maintenance



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




VELUX repair and maintenance kits are available.

## Guarantee period

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# 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 electric 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 compatiblity



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

# Further information

We reserve the right to make technical changes.

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

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# Technical information

| | | |
|---|---|---|
| **VELUX electric roof window GLU** | **Installation and use** | 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.<br>Installation in rooms with a high level of humidity must comply with relevant regulations (contact a qualified electrician if necessary). |
| | **Window opening** | 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.<br>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. |
| | **Compatibility** | 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.<br>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 sunscreening products but we recommend using the electric ones.<br>Connection to non-compatible products may cause damage or malfunction. |
| | **Connection** | The window is equipped with a 4 m 2-core cable (H05VV-F) with a standard mains plug for connection to the mains supply. |
| **Pre-paired wall switch** | **Materials** | ABS plastic, white (NCS S 1000-N) |
| | **Size and weight description** | 8.2 cm x 8.2 cm x 1.7 cm, 0.125 kg. |
| | **Installation and use** | The wall switch is for indoor use only, between a minimum ambient temperature 5 °C and a maximum ambient temperature 45 °C.<br>It can be used in a dry or humid environment (such as a living room or a bathroom).<br>Radio frequency range: 300 m range open field. Depending on the building construction, the indoor range is approximately 30 m. |
| | **Power consumption** | 2 x alkaline AAA (1.5V) batteries<br>Expected battery lifetime: Up to 1 year. |
| **Integrated rain sensor** | **Materials** | Gold-coated sensor, Grey (RAL 7022) |
| | **Size and weight description** | N/A |
| | **Power consumption** | N/A |
| **Window operator, electric** | **Materials** | Motor casing of polybutulene terephthalate (PBT) with glass fibre, black (NCS S 9000-N). Stainless steel chain. |
| | **Size and weight description** | 362 x 50 x 110 mm (W x H x D), 0.987 kg |
| | **Power consumption** | 230/240 V a.c. – 50 Hz / 40 VA.<br>Stand-by power consumption (including rain sensor): max 0.5 W.<br>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. |
| | **Motor capacity** | Traction capacity: Min 225 N<br>Pressure capacity: Min 150 N |

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