# VELUX electric roof window GGU






The VELUX electric, centre-pivot roof window GGU is a wired solution that operates remotely using a wall switch – 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.
- 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

VRW Roof windows Integra en-WW - Approved
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# Application guidance

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 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

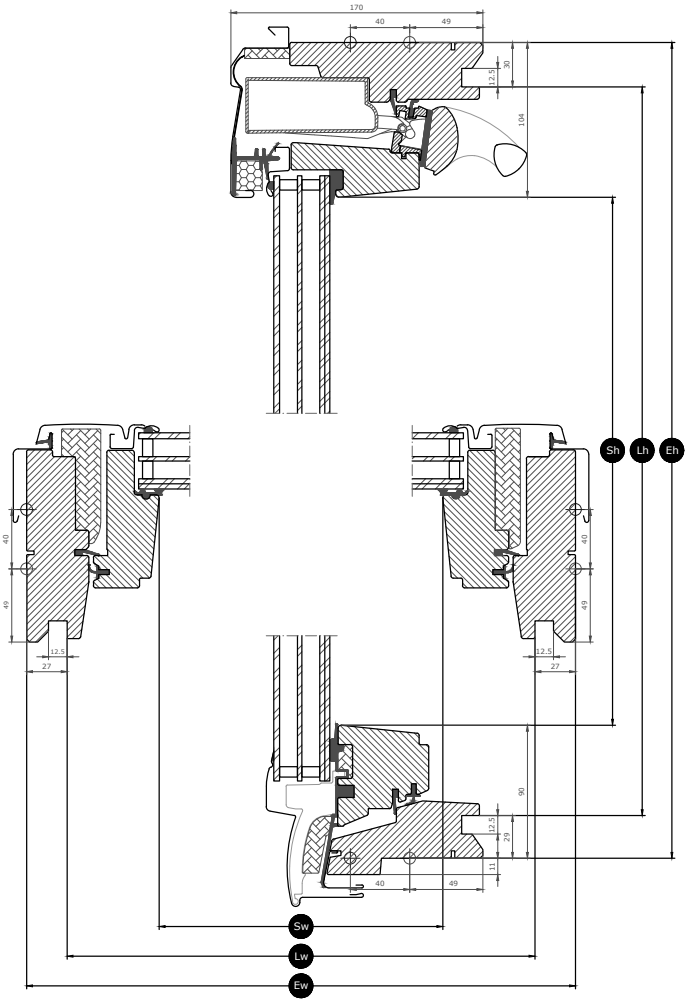
The size overview shows the availability across the different glazing variants. Please note that the individual glazing variant may not be available in all the sizes shown.

| | 550 | 660 | 780 | 942 | 1140 | 1340 |
|---|---|---|---|---|---|---|
| 778 | GGU CK02<br>(0.22)<br>[0.10] | | | | | |
| 978 | GGU CK04<br>(0.29)<br>[0.20] | GGU FK04<br>(0.38)<br>[0.24] | GGU MK04<br>(0.47)<br>[0.28] | | | GGU UK04<br>(0.91)<br>[0.47] |
| 1178 | GGU CK06<br>(0.37)<br>[0.20] | GGU FK06<br>(0.47)<br>[0.24] | GGU MK06<br>(0.59)<br>[0.28] | GGU PK06<br>(0.75)<br>[0.33] | GGU SK06<br>(0.95)<br>[0.39] | |
| 1398 | | GGU FK08<br>(0.58)<br>[0.24] | GGU MK08<br>(0.72)<br>[0.28] | GGU PK08<br>(0.92)<br>[0.33] | GGU SK08<br>(1.16)<br>[0.39] | GGU UK08<br>(1.40)<br>[0.46] |
| 1600 | | | GGU MK10<br>(0.85)<br>[0.28] | GGU PK10<br>(1.07)<br>[0.34] | GGU SK10<br>(1.35)<br>[0.40] | GGU UK10<br>(1.63)<br>[0.46] |

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

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# Cross section dimensions




| Width | | CK-- | FK-- | MK-- | PK-- | SK-- | UK-- |
|---|---|---|---|---|---|---|---|
| Sw | Sash aperture width | 371 | 481 | 601 | 763 | 961 | 1161 |
| Lw | Distance between lining grooves, width | 495 | 605 | 725 | 887 | 1085 | 1285 |
| Ew | Exterior frame width | 550 | 660 | 780 | 942 | 1140 | 1340 |

| 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 66SG | Glazing 86 | Glazing 67 | Glazing 69 | Glazing 68 | Glazing 70 | Glazing 57F |
|---|---|---|---|---|---|---|---|
| Solar protection | ★★★☆ | ★★★☆ | ★★★☆ | ★★★★ | ★★★☆ | ★★★☆ | ★★★★ |
| Security | ★★☆☆ | ★★☆☆ | ★★☆☆ | ★★☆☆ | ★★☆☆ | ★★☆☆ | ★★☆☆ |
| Safety lamination | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Toughened glass | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| UV filter | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Rain noise reduction | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Easy-to-clean | ✓ | ✓ | ✓ | | | | ✓ |
| Anti-dew | ✓ | ✓ | ✓ | | | | |

## Glazing structure

| Glazing variant | Glazing unit | Composition (from inside to outside) |
|---|---|---|
| Glazing 66SG | Triple-glazed | 6.8 mm laminated float glass - 13 mm Argon - 3 mm heat strengthened glass - 13 mm Argon - 4 mm toughened glass |
| Glazing 86 | Triple-glazed | 6.8 mm laminated float glass - 13 mm Argon - 3 mm heat strengthened glass - 13 mm Argon - 4 mm toughened glass |
| Glazing 67 | Triple-glazed | 6.8 mm laminated float glass - 12 mm Krypton - 3 mm heat strengthened glass - 12 mm Krypton - 4 mm toughened glass |
| Glazing 69 | Triple-glazed | 6.8 mm laminated float glass - 13 mm Argon - 3 mm heat strengthened glass - 13 mm Argon - 4 mm toughened glass |
| Glazing 68 | Triple-glazed | 6.8 mm laminated float glass - 13 mm Argon - 3 mm heat strengthened glass - 13 mm Argon - 4 mm toughened glass |
| Glazing 70 | Double-glazed | 6.8 mm laminated float glass - 16 mm Argon - 4 mm toughened glass |
| Glazing 57F | Double-glazed | 6.8 mm laminated float glass - 16 mm Argon - 6 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.

|  | Glazing 66SG | Glazing 86 | Glazing 67 | Glazing 69 | Glazing 68 | Glazing 70 | Glazing 57F |
|---|---|---|---|---|---|---|---|
| **Window characteristics** | **Performance** | | | | | | |
| **Thermal transmittance (U-value)** | 1.0 W/(m²K) | 1.0 W/(m²K) | 0.88 W/(m²K) | 1.1 W/(m²K) | 1.1 W/(m²K) | 1.3 W/(m²K) | 1.3 W/(m²K) |
| **Light transmittance (τ,v)** | 0.62 | 0.62 | 0.62 | 0.57 | 0.68 | 0.68 | 0.60 |
| **Total solar energy transmittance (g-value)** | 0.44 | 0.44 | 0.44 | 0.27 | 0.49 | 0.46 | 0.30 |
| **Sound insulation (Rw)** | 37(-2;-4) | 37(-2;-4) | 38(-2;-5) | 35(-1;-3) | 35(-1;-3) | 35(-1;-3) | 37(-1;-3) |
| **Air permeability, [class]** | 4 (PK10: 3) | 4 (PK10: 3) | 4 (PK10: 3) | 4 (PK10: 3) | 4 (PK10: 3) | 4 (PK10: 3) | 4 (PK10: 3) |
| **External fire performance - British [class]** | AC | AC | AC | AC | AC | AC | AC |
| **External fire performance - European [class]** | npd | npd | npd | npd | npd | npd | npd |
| **Impact resistance [class]** | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| **Load-bearing capacity of safety devices** | √ | √ | √ | √ | √ | √ | √ |
| **Reaction to fire [class]** | D-s3,d2 | D-s3,d2 | D-s3,d2 | D-s3,d2 | D-s3,d2 | D-s3,d2 | D-s2,d2 |
| **Resistance to snow load** | ** | ** | ** | ** | ** | ** | ** |
| **Resistance to wind load [class]** | C3 (>SK08: NPD) | C3 (>SK08: NPD) | C3 (>SK08: NPD) | C3 (>SK08: NPD) | C3 (>SK08: NPD) | C3 (>SK08: NPD) | C3 (>SK08: NPD) |
| **Water tightness [class]** | E900 | E900 | E900 | E900 | E900 | E900 | E900 |

Resistance to snow load = ** See glazing composition

NPD: No Performance Determined

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## 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 | Titanium zinc | 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



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 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.

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# Technical information

| | | |
|---|---|---|
| **VELUX electric roof window GGU** | **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 (2.5 m for the UK). |
| **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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