

# VELUX roof window GGU

Glazing 70



The VELUX top-operated, centre-pivot roof window GGU is perfect for those looking for a maintenance-free window that allows for easy access over e.g. a sofa, countertop or bathtub. The durable, moisture-resistant finish looks great in any room and is ideal for humid rooms like kitchens.

- Open the top control bar to the ventilation position for fresh air through a closed window.
- Refresh your home by slightly opening the window and fixing it in the top bushing.
- The glazing comes standard with premium features like safety lamination, toughened glass, UV filter and our unique rain noise reduction.
- Top operation allows for a low installation height that lets you enjoy the view while seated.
- Easily rotate the window 180° for safe cleaning of the outer glass from the inside.
- Removable and cleanable ventilation filter protects your home from dust and insects while ventilating.
- Maintenance-free exterior covers increase peace of mind throughout the lifetime of the roof window.



## Application guidance

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



Manually top-operated, centre-pivot roof windows make it possible to place furniture directly below the window without obstructing the window's operation. We recommend an installation height that allows for a clear sight line to the outside from both a standing and seated position. Please note that the optimum window height depends on the roof pitch.

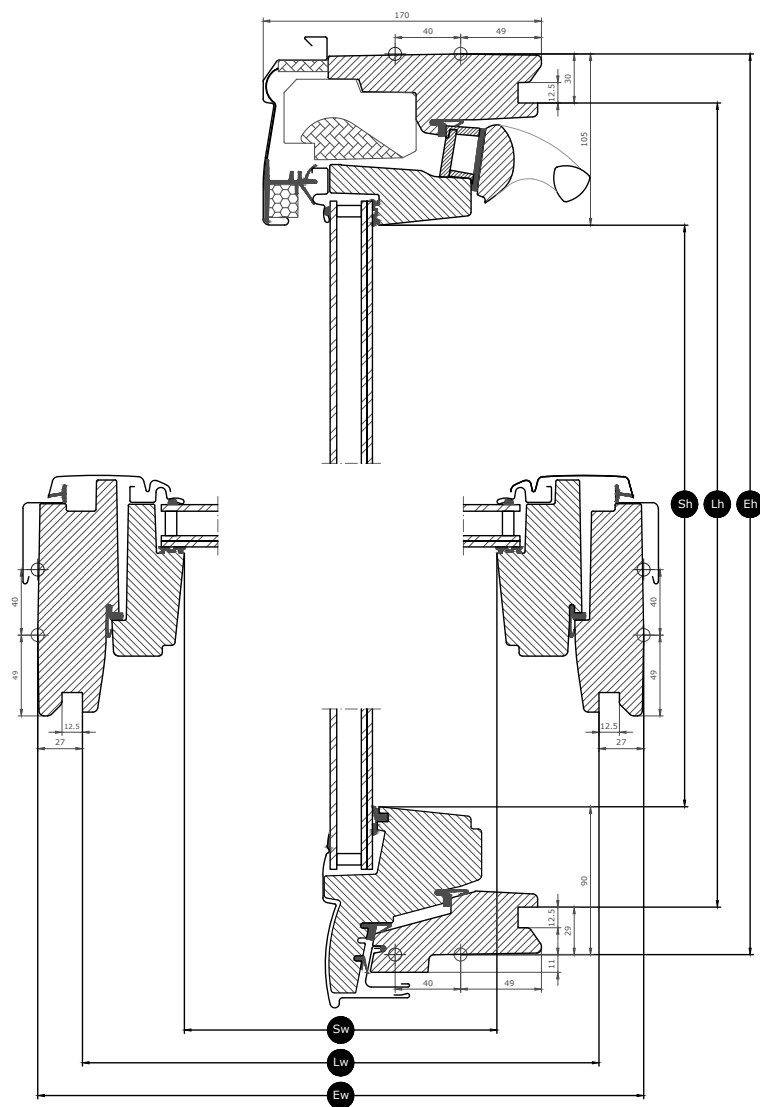
## Available sizes and daylight area

|         | 550 mm                       | 660 mm                       | 780 mm                       | 942 mm                       | 1140 mm                      | 1340 mm                      |
|---------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| 778 mm  | GGU CK02<br>(0.22)<br>[0.26] |                              |                              |                              |                              |                              |
| 978 mm  | GGU CK04<br>(0.29)<br>[0.34] | GGU FK04<br>(0.38)<br>[0.43] | GGU MK04<br>(0.47)<br>[0.53] |                              |                              | GGU UK04<br>(0.91)<br>[0.98] |
| 1178 mm | GGU CK06<br>(0.37)<br>[0.43] | GGU FK06<br>(0.47)<br>[0.54] | GGU MK06<br>(0.59)<br>[0.66] | GGU PK06<br>(0.75)<br>[0.83] | GGU SK06<br>(0.95)<br>[1.03] |                              |
| 1398 mm |                              | GGU FK08<br>(0.58)<br>[0.66] | GGU MK08<br>(0.72)<br>[0.81] | GGU PK08<br>(0.92)<br>[1.01] | GGU SK08<br>(1.16)<br>[1.25] | GGU UK08<br>(1.40)<br>[1.54] |
| 1600 mm |                              |                              | GGU MK10<br>(0.85)<br>[0.94] | GGU PK10<br>(1.07)<br>[1.17] | GGU SK10<br>(1.35)<br>[1.46] | GGU UK10<br>(1.63)<br>[1.80] |

All measurements are in mm. ( ) = Effective daylight area, m² [ ] = Geometric free area, m²

## Cross section dimensions












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



| 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 |

## Glazing features

| Glazing 70  |   |             |
|--|---|-------------|
|               | <b>Heat insulation</b><br>The low energy glazing unit reduces heat loss through the window and enhanced indoor comfort.   | $U_g = 1.0$ |
|               | <b>Solar gain</b><br>In colder climates and in rooms with large window areas, solar gain provides a better indoor climate during winter periods.                        | <b>0.46</b> |
|               | <b>Solar protection</b><br>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><br>Thicker laminated inner glass increases resistance to manual attack (burglary).  | ★★★★☆       |
|             | <b>Safety lamination</b><br>Prevents glass from falling into the room in case of accidental breakage.   | ✓           |
|             | <b>Toughened glass</b><br>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><br>Protects your interior furnishings from fading due to the sun's harmful UV rays.  | ✓           |
|             | <b>Rain noise reduction</b><br>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><br>Dirt-repellent coating lets you spend less time cleaning and more time enjoying the view.   |             |
|             | <b>Anti-dew</b><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)                              |
|---------------|---|
| Double-glazed | 6.8 mm laminated float glass - 16 mm Argon - 4 mm toughened glass |

## 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)              | 1.3 W/(m²K)             |
| Light transmittance (τ <sub>v</sub> )        | 0.68                    |
| Total solar energy transmittance (g-value)   | 0.46                    |
| Sound insulation (R <sub>w</sub> )           | 35(-1;-3)               |
| Air permeability, [class]                    | 4 (PK10: 3)             |
| External fire performance - British [class]  | AC                      |
| External fire performance - European [class] | npd                     |
| Impact resistance [class]                    | 3                       |
| Load-bearing capacity of safety devices      | ✓                       |
| Reaction to fire [class]                     | D-s3,d2                 |
| Resistance to snow load                      | See glazing composition |
| Resistance to wind load [class]              | C3 (>SK08: NPD)         |
| Water tightness [class]                      | E900                    |

NPD: No Performance Determined

## Visible features

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### **Control bar**

The ergonomic aluminum control bar allows effortless opening and closing of the window. It can also lock the ventilation flap in the ventilation position.



### **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.



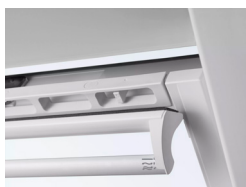
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### **Ventilation flap**

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



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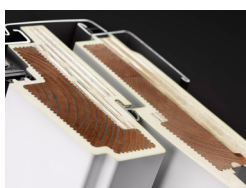
### **Frame hinge, centre-pivot, side**

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



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### **Excellent insulation**

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

## Interior finish

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| Material 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

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| Material Description                   | Aluminium, black<br>Black | Aluminium, dark grey<br>Dark grey | Titanium zinc  | Untreated copper |
|--|---------------------------|-----------------------------------|----------------|------------------|
| Colour code NCS, outer surface         | S 9000-N                  | S 7500-N                          | No colour code |                  |
| Colour code nearest RAL, outer surface | 9005                      | 7043                              | No colour code |                  |

## 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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## 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.

## Further information

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We reserve the right to make technical changes.

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