

# VELUX roof window GGL

## Glazing 66SG



The original VELUX top-operated, centre-pivot roof window GGL is easy to operate and gives you the freedom to place furniture underneath. The innovative top control bar allows you to install the window at a lower position to get an excellent view while standing and even when seated.

- Open the top control bar to the ventilation position for fresh air through a closed window.
- Easily rotate the window 180° for safe cleaning of the outer glass from the inside.
- The glazing comes standard with premium features like safety lamination, toughened glass, UV filter, easy to clean, anti-dew and our unique rain noise reduction.
- Easily open and close the roof window – even with furniture placed underneath.
- Removable and cleanable ventilation filter protects your home from dust and insects while ventilating.
- Quickly and easily add blinds by simply clicking them into the pre-fitted brackets.
- Upgrade to a remote-controlled mains- or solar-powered motor for extra convenience.



## Application guidance

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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.

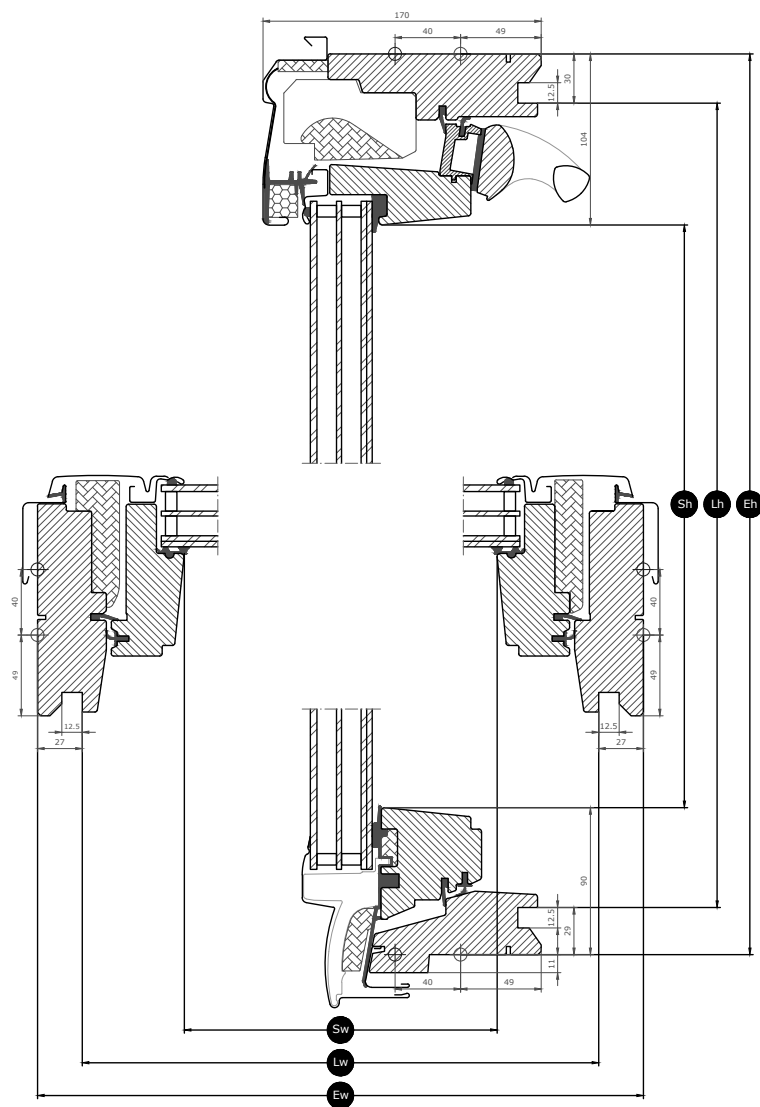
## Available sizes and daylight area

|         | 472 mm                              | 550 mm                              | 660 mm                              | 780 mm                              | 942 mm                              | 1140 mm                             | 1340 mm                             |
|---------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| 550 mm  |                                     |                                     |                                     |                                     | GGL<br>PK25<br><br>(0.27)<br>[0.31] |                                     |                                     |
| 624 mm  |                                     |                                     |                                     | GGL<br>MK27<br><br>(0.26)<br>[0.30] |                                     |                                     |                                     |
| 698 mm  |                                     | GGL<br>CK01<br><br>(0.19)<br>[0.23] |                                     |                                     |                                     | GGL<br>SK01<br><br>(0.48)<br>[0.54] |                                     |
| 778 mm  |                                     | GGL<br>CK02<br><br>(0.22)<br>[0.26] |                                     |                                     |                                     |                                     |                                     |
| 978 mm  | GGL<br>BK04<br><br>(0.23)<br>[0.28] | GGL<br>CK04<br><br>(0.29)<br>[0.34] | GGL<br>FK04<br><br>(0.38)<br>[0.43] | GGL<br>MK04<br><br>(0.47)<br>[0.53] | GGL<br>PK04<br><br>(0.60)<br>[0.66] |                                     | GGL<br>UK04<br><br>(0.91)<br>[0.98] |
| 1178 mm |                                     | GGL<br>CK06<br><br>(0.37)<br>[0.43] | GGL<br>FK06<br><br>(0.47)<br>[0.54] | GGL<br>MK06<br><br>(0.59)<br>[0.66] | GGL<br>PK06<br><br>(0.75)<br>[0.83] | GGL<br>SK06<br><br>(0.95)<br>[1.03] |                                     |
| 1398 mm |                                     |                                     | GGL<br>FK08<br><br>(0.58)<br>[0.66] | GGL<br>MK08<br><br>(0.72)<br>[0.81] | GGL<br>PK08<br><br>(0.92)<br>[1.01] | GGL<br>SK08<br><br>(1.16)<br>[1.25] | GGL<br>UK08<br><br>(1.40)<br>[1.54] |
| 1600    |                                     |                                     |                                     | GGL<br>MK10<br><br>(0.85)<br>[0.94] | GGL<br>PK10<br><br>(1.07)<br>[1.17] | GGL<br>SK10<br><br>(1.35)<br>[1.46] | GGL<br>UK10<br><br>(1.63)<br>[1.80] |
| 1800    |                                     |                                     |                                     | GGL<br>MK12<br><br>(0.97)<br>[1.07] |                                     |                                     |                                     |

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

## Cross section dimensions











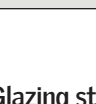
Please note that the view of the cross section is from bottom to top.



| Width |  | BK-- | CK-- | FK-- | MK-- | PK-- | SK-- | UK-- |
|-------|--|------|------|------|------|------|------|------|
| Sw    | Sash aperture width                    | 293  | 371  | 481  | 601  | 763  | 961  | 1161 |
| Lw    | Distance between lining grooves, width | 417  | 495  | 605  | 725  | 887  | 1085 | 1285 |
| Ew    | External frame width                   | 472  | 550  | 660  | 780  | 942  | 1140 | 1340 |

| Height |   | --01 | --02 | --04 | --06 | --08 | --10 | --12 | --25 | --27 |
|--------|---|------|------|------|------|------|------|------|------|------|
| Sh     | Sash aperture height                    | 504  | 584  | 784  | 984  | 1204 | 1406 | 1606 | 356  | 430  |
| Lh     | Distance between lining grooves, height | 639  | 719  | 919  | 1119 | 1339 | 1541 | 1741 | 491  | 565  |
| Eh     | External frame height                   | 698  | 778  | 978  | 1178 | 1398 | 1600 | 1800 | 550  | 624  |

## Glazing features

| Glazing 66SG  |   |             |
|--|---|-------------|
|                 | <b>Heat insulation</b><br>The low energy glazing unit reduces heat loss through the window and enhanced indoor comfort.   | $U_g = 0.6$ |
|                 | <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>0.44</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  | 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

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/(m²K)             |
| Light transmittance                     | 0.62                    |
| Total solar energy transmittance        | 0.44                    |
| Sound insulation                        | 37(-2;-4)               |
| Air permeability                        | 4                       |
| External fire performance - British     | AC                      |
| External fire performance - European    | npd                     |
| Impact resistance                       | 3                       |
| Load-bearing capacity of safety devices | ✓                       |
| Reaction to fire                        | C-s1,d2                 |
| Resistance to snow load                 | See glazing composition |
| Resistance to wind load                 | C3 (>SK08: NPD)         |
| Water tightness                         | E900                    |

NPD: No performance determined

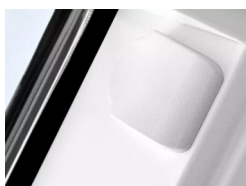
## Visible features

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### **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.



### **Ventilation flap**

The full-width ventilation flap can be used for ventilation even with a closed window. The ventilation flap is connected to the top sash with the lock casing.



### **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.



### **Interior insulation, frame top sides**

Innovative ThermoTechnology™ insulation is integrated into the top frame sides of the window to increase energy-efficiency.



### **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.



### **Headlock**

When closed, the window is locked firmly into place by the headlock.



### **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                   | Clear lacquer<br>Finished with triple coat, clear lacquered. | White-painted<br>Finished with triple coat, white painted. |
|--|--|--|
| Colour code NCS, inner surface         | No colour code   | S 0500-N   |
| Colour code nearest RAL, inner surface | No colour code   | 9003   |

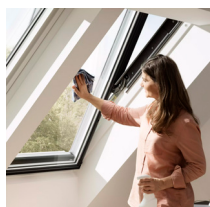
## Exterior covers

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| Material 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

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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

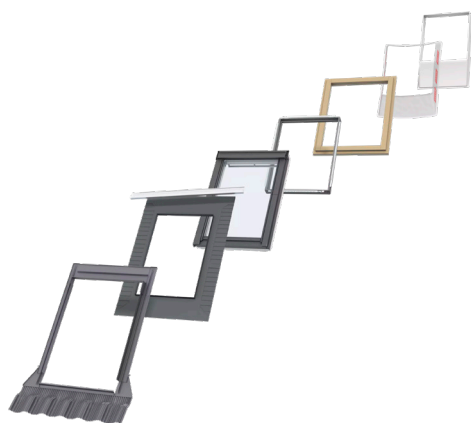
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The full terms and conditions of the VELUX Product Guarantee are available on our website [www.velux.co.uk](http://www.velux.co.uk) or [www.velux.ie](http://www.velux.ie)



## 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://www.velux.co.uk> or <https://www.velux.ie>.