

# VELUX manual centre-pivot roof window GGL

**VELUX®**



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.
- 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.
- The exclusive top control bar complements the window for a modern, elegant look.



## 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.

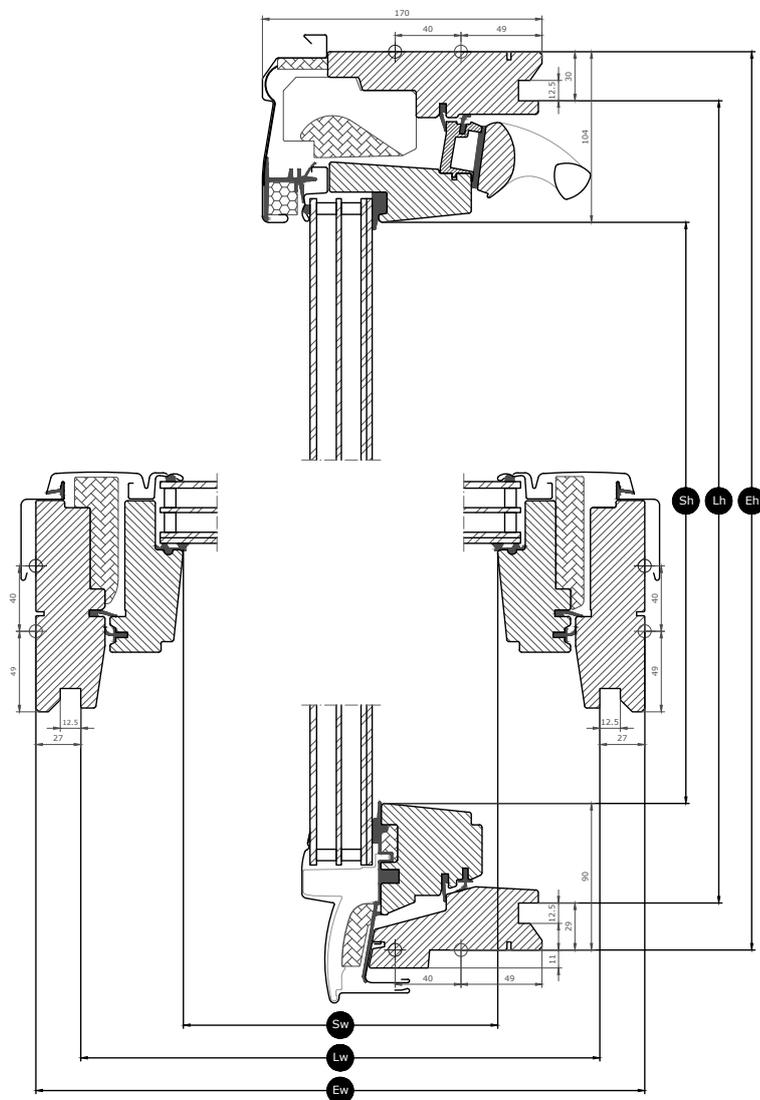
## Available sizes and daylight area

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.

|      | 472                                 | 550                                 | 660                                 | 780                                 | 942                                 | 1140                                | 1340                                |
|------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| 550  |                                     |                                     |                                     |                                     | GGL<br>PK25<br><br>(0.27)<br>[0.31] |                                     |                                     |
| 624  |                                     |                                     |                                     | GGL<br>MK27<br><br>(0.26)<br>[0.30] |                                     |                                     |                                     |
| 698  |                                     | GGL<br>CK01<br><br>(0.19)<br>[0.23] |                                     |                                     |                                     | GGL<br>SK01<br><br>(0.48)<br>[0.54] |                                     |
| 778  |                                     | GGL<br>CK02<br><br>(0.22)<br>[0.26] |                                     |                                     |                                     |                                     |                                     |
| 978  | 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 |                                     | 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] | GGL<br>UK06<br><br>(1.15)<br>[1.23] |
| 1398 |                                     |                                     | 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



| 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 | Glazing 67 | Glazing 69 | Glazing 68 | Glazing 70 | Glazing 70Q | Glazing 62SG |
|--|--------------|------------|------------|------------|------------|-------------|--------------|
|  Solar protection       | ★★★★☆        | ★★★★☆      | ★★★★★      | ★★★★☆      | ★★★★☆      | ★★★★☆       | ★★★★☆        |
|  Security               | ★★★★☆        | ★★★★☆      | ★★★★☆      | ★★★★☆      | ★★★★☆      | ★★★★★       | ★★★★☆        |
|  Safety lamination      | √            | √          | √          | √          | √          | √           | √            |
|  Toughened glass       | √            | √          | √          | √          | √          | √           | √            |
|  UV filter            | √            | √          | √          | √          | √          | √           | √            |
|  Rain noise reduction | √            | √          | √          | √          | √          |             | √            |
|  Easy-to-clean        | √            | √          |            |            |            |             |              |
|  Anti-dew             | √            | √          |            |            |            |             | √            |

## Glazing structure

| Glazing variant | Glazing unit  | Variant composition  |
|-----------------|---------------|--|
| Glazing 66SG    | Triple-glazed | 6.8mm laminated float glass - 13mm Argon - 3mm heat strengthened glass - 13mm Argon - 4mm 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 | 6.8mm laminated float glass - 13mm Argon - 3mm heat strengthened glass - 13mm Argon - 4mm 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 70Q     | Double-glazed | 7.5 mm laminated float glass - 16 mm Argon - 4 mm toughened glass  |
| Glazing 62SG    | Triple-glazed | 6.8 mm laminated float glass - 11 mm Krypton - 3 mm heat strengthened glass - 11 mm Krypton - 8 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.

|  | Glazing 66SG             | Glazing 67                | Glazing 69               | Glazing 68               | Glazing 70               | Glazing 70Q              | Glazing 62SG              |
|---|--------------------------|---------------------------|--------------------------|--------------------------|--------------------------|--------------------------|---------------------------|
|   | Performance              |                           |                          |                          |                          |                          |                           |
| <b>Thermal transmittance</b>  | 1.0 W/(m <sup>2</sup> K) | 0.83 W/(m <sup>2</sup> K) | 1.1 W/(m <sup>2</sup> K) | 1.1 W/(m <sup>2</sup> K) | 1.3 W/(m <sup>2</sup> K) | 1.3 W/(m <sup>2</sup> K) | 0.92 W/(m <sup>2</sup> K) |
| <b>Light transmittance</b>  | 0.62                     | 0.62                      | 0.57                     | 0.68                     | 0.68                     | 0.68                     | 0.68                      |
| <b>Total solar energy transmittance</b>   | 0.44                     | 0.44                      | 0.27                     | 0.49                     | 0.46                     | 0.45                     | 0.47                      |
| <b>Sound insulation</b>   | 37(-2;-4)                | 38(-2;-5)                 | 35(-1;-3)                | 35(-1;-3)                | 35(-1;-3)                | 35(-1;-3)                | 42(-2;-5)                 |
| <b>Air permeability</b>   | 4                        | 4                         | 4                        | 4                        | 4                        | 4                        | 4                         |
| <b>External fire performance - British</b>  | AC                       | AC                        | AC                       | AC                       | AC                       | AC                       | AC                        |
| <b>External fire performance - European</b>                                       | npd                      | npd                       | npd                      | NPD                      | npd                      | npd                      | npd                       |
| <b>Impact resistance</b>  | 3                        | 3                         | 3                        | 3                        | 3                        | 3                        | 3                         |
| <b>Load-bearing capacity of safety devices</b>                                    | √                        | √                         | √                        | √                        | √                        | √                        | √                         |
| <b>Reaction to fire</b>   | C-s1,d2                  | C-s1,d2                   | C-s1,d2                  | C-s1,d2                  | C-s1,d2                  | C-s1,d2                  | C-s1,d2                   |
| <b>Resistance to snow load</b>  | **                       | **                        | **                       | **                       | **                       | **                       | **                        |
| <b>Resistance to wind load</b>  | C3 (>SK08: NPD)          | C3 (>SK08: NPD)           | C3 (>SK08: NPD)          | C3 (>SK08: NPD)          | C3 (>SK08: NPD)          | C3 (>SK08: NPD)          | C3 (>SK08: NPD)           |
| <b>Water tightness</b>  | E900                     | E900                      | E900                     | E900                     | E900                     | E900                     | E900                      |

Resistance to snow load = \*\* See glazing composition

NPD: No performance determined

## 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. |
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| 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 | No colour code   |
| Colour code nearest RAL, outer surface | 7043                              | No colour code | 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>.