

VELUX manual centre-pivot roof window GGL



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.
- Refresh your home by slightly opening the window and fixing it in the top bushing.
- 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.
- The exclusive top control bar complements the window for a modern, elegant look.
- Upgrade to a remote-controlled mains- or solar-powered motor for extra convenience.



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.

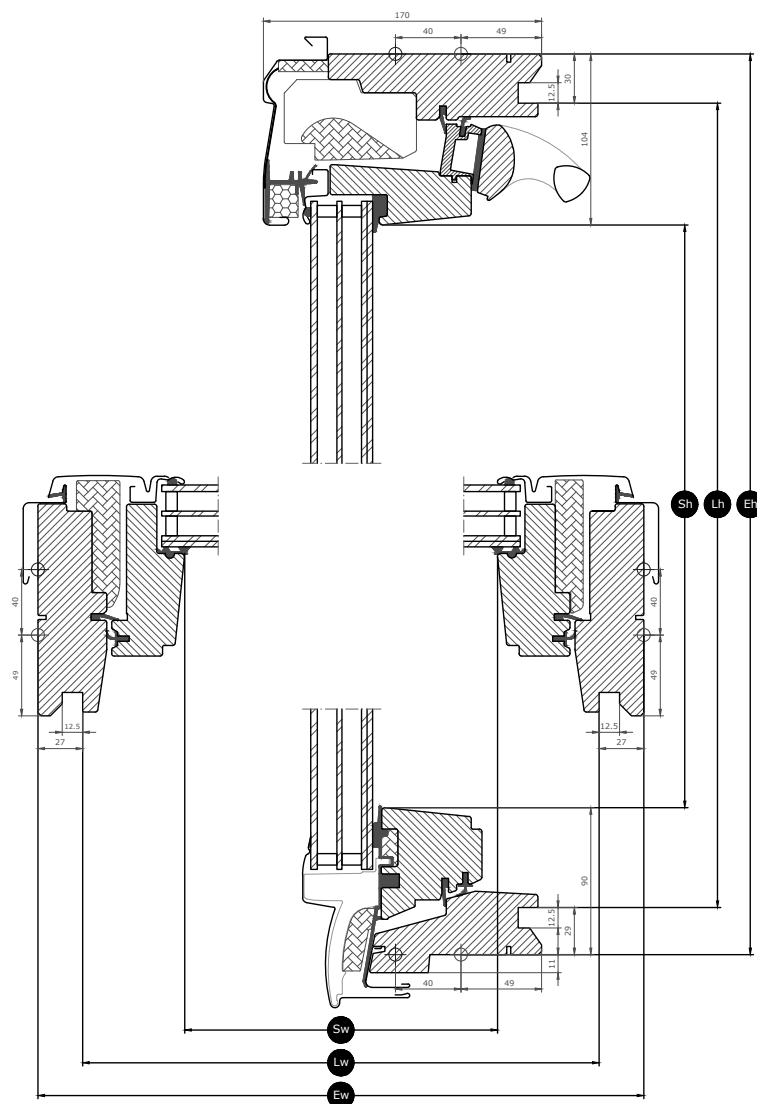
Available sizes and daylight area

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 PK25 (0.27) [0.31] | | |
| 624 | | | | GGL MK27 (0.26) [0.30] | | | |
| 698 | | GGL CK01 (0.19) [0.23] | | | | GGL SK01 (0.48) [0.54] | |
| 778 | | GGL CK02 (0.22) [0.26] | | | | | |
| 978 | GGL BK04 (0.23) [0.28] | GGL CK04 (0.29) [0.34] | GGL FK04 (0.38) [0.43] | GGL MK04 (0.47) [0.53] | GGL PK04 (0.60) [0.66] | | GGL UK04 (0.91) [0.98] |
| 1178 | | GGL CK06 (0.37) [0.43] | GGL FK06 (0.47) [0.54] | GGL MK06 (0.59) [0.66] | GGL PK06 (0.75) [0.83] | GGL SK06 (0.95) [1.03] | GGL UK06 (1.15) [1.23] |
| 1398 | | | GGL FK08 (0.58) [0.66] | GGL MK08 (0.72) [0.81] | GGL PK08 (0.92) [1.01] | GGL SK08 (1.16) [1.25] | GGL UK08 (1.40) [1.54] |
| 1600 | | | | GGL MK10 (0.85) [0.94] | GGL PK10 (1.07) [1.17] | GGL SK10 (1.35) [1.46] | GGL UK10 (1.63) [1.80] |
| 1800 | | | | GGL MK12 (0.97) [1.07] | | | |

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










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 | Exterior 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 | Exterior frame height | 698 | 778 | 978 | 1178 | 1398 | 1600 | 1800 | 550 | 624 |

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 |

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) | 0.83 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 (R _w) | 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 | 4 | 4 | 4 | 4 | 4 | 4 |
| 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] | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Load-bearing capacity of safety devices | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Reaction to fire [class] | C-s1,d2 | C-s1,d2 | C-s1,d2 | C-s1,d2 | C-s1,d2 | C-s1,d2 | C-s1,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

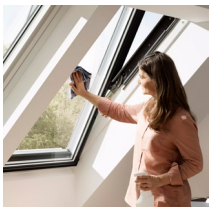
Interior finish

| Material Description | Clear lacquer Finished with triple coat, clear lacquered. | White-painted 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

| Material Description | Aluminium, dark grey 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



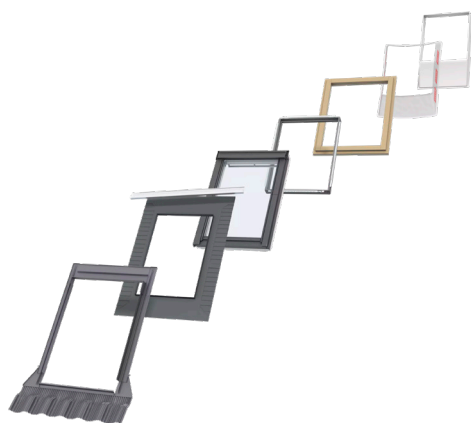
To clean the outer glass surface from the inside, rotate sash manually and secure in cleaning position with barrel bolts.



VELUX repair and maintenance kits are available.

Guarantee period

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>.