

# VELUX manual top-hung roof window GPL

**VELUX®**



Enjoy panoramic views of the outdoors and a feeling of extra space with the VELUX bottom-operated, top-hung roof window GPL. Open the window outwards by using the elegant handle at the bottom to allow for an uninterrupted contact to the outside.

- Open the window outwards up to 45° to enjoy a panoramic view and a feeling of space.
- 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.
- Adjust the bottom handle position to ventilate your home without opening the window.
- Maintenance-free exterior covers increase peace of mind throughout the lifetime of the roof window.
- 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



## Application guidance

The window can be installed in roof pitches between 15° and 55° (75°) to the horizontal.



Manual bottom-operated, top-hung roof windows open outwards for an unobstructed, panoramic view. To get the full benefit of the top-hung function, 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.

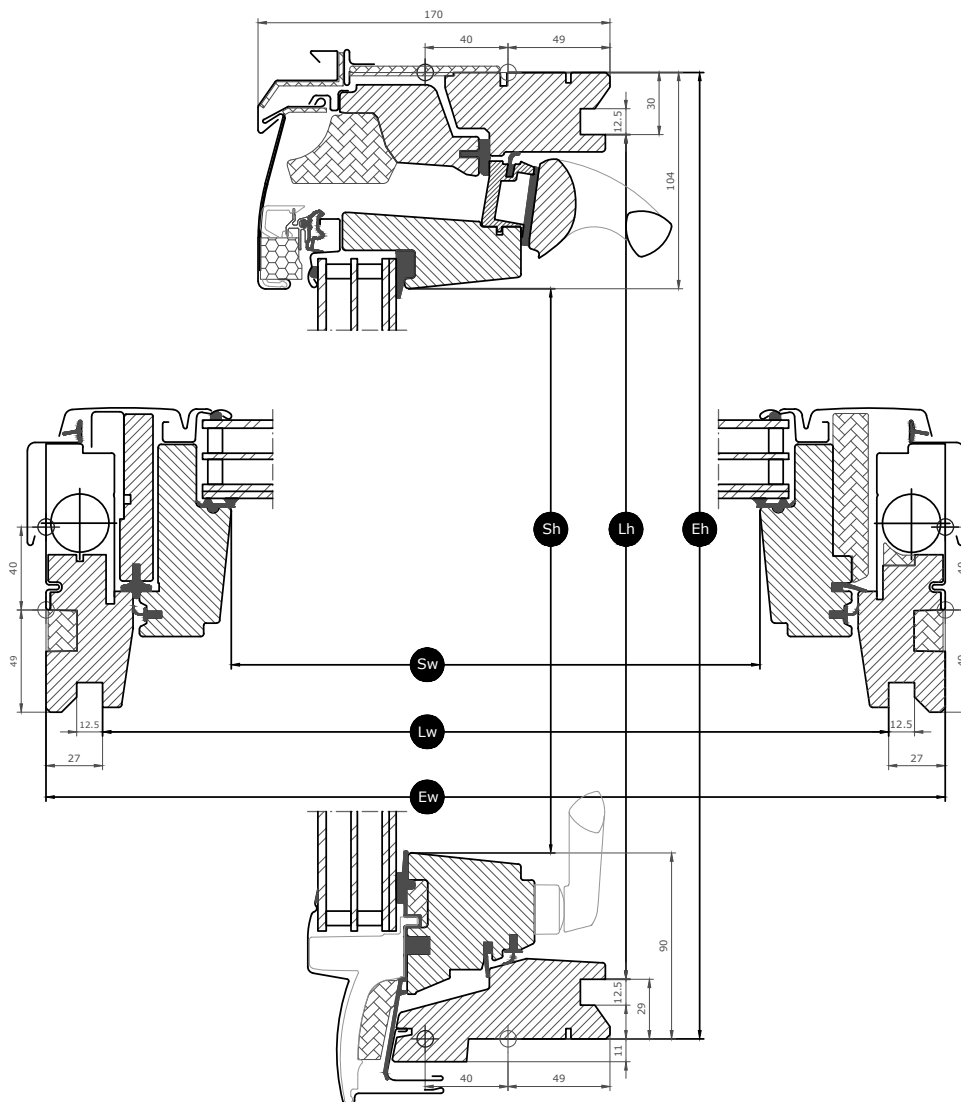
## Available sizes and daylight area

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.

|      | 550                                 | 660                                 | 780                                 | 942                                 | 1140                                | 1340                                |
|------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| 978  | GPL<br>CK04<br><br>(0.29)<br>[0.39] |                                     | GPL<br>MK04<br><br>(0.47)<br>[0.58] | GPL<br>PK04<br><br>(0.60)<br>[0.72] |                                     | GPL<br>UK04<br><br>(0.91)<br>[1.05] |
| 1178 | GPL<br>CK06<br><br>(0.37)<br>[0.48] | GPL<br>FK06<br><br>(0.47)<br>[0.60] | GPL<br>MK06<br><br>(0.59)<br>[0.72] | GPL<br>PK06<br><br>(0.75)<br>[0.89] | GPL<br>SK06<br><br>(0.95)<br>[1.09] |                                     |
| 1398 |                                     | GPL<br>FK08<br><br>(0.58)<br>[0.72] | GPL<br>MK08<br><br>(0.72)<br>[0.87] | GPL<br>PK08<br><br>(0.91)<br>[1.08] | GPL<br>SK08<br><br>(1.14)<br>[1.32] | GPL<br>UK08<br><br>(1.41)<br>[1.58] |
| 1600 |                                     |                                     | GPL<br>MK10<br><br>(0.85)<br>[1.01] | GPL<br>PK10<br><br>(1.07)<br>[1.25] | GPL<br>SK10<br><br>(1.35)<br>[1.54] |                                     |

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










## 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 |   | --04 | --06 | --08 | --10 |
|--------|---|------|------|------|------|
| Sh     | Sash aperture height                    | 784  | 984  | 1204 | 1406 |
| Lh     | Distance between lining grooves, height | 919  | 1119 | 1339 | 1541 |
| Eh     | Exterior frame height                   | 978  | 1178 | 1398 | 1600 |

## Glazing features


|                            | Glazing 66SG | Glazing 86 | Glazing 66L | Glazing 67 | Glazing 69 | Glazing 68 | Glazing 70 |
|---|--------------|------------|-------------|------------|------------|------------|------------|
| <br>Solar protection       | ★★★★☆        | ★★★★☆      | ★★★★☆       | ★★★★☆      | ★★★★★      | ★★★★☆      | ★★★★☆      |
| <br>Security               | ★★★★☆        | ★★★★☆      | ★★★★☆       | ★★★★☆      | ★★★★☆      | ★★★★☆      | ★★★★☆      |
| <br>Safety lamination      | ✓            | ✓          | ✓           | ✓          | ✓          | ✓          | ✓          |
| <br>Toughened glass       | ✓            | ✓          | ✓           | ✓          | ✓          | ✓          | ✓          |
| <br>UV filter            | ✓            | ✓          | ✓           | ✓          | ✓          | ✓          | ✓          |
| <br>Rain noise reduction | ✓            | ✓          |             | ✓          | ✓          | ✓          | ✓          |
| <br>Easy-to-clean        | ✓            | ✓          | ✓           | ✓          |            |            |            |
| <br>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 66L     | Triple-glazed | 4.0 mm laminated float glass - 14 mm Argon - 2.3 mm heat strengthened glass - 14 mm Argon - 3 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  |

## 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 66L              | Glazing 67                | Glazing 69               | Glazing 68               | Glazing 70               |
|---|--------------------------|--------------------------|--------------------------|---------------------------|--------------------------|--------------------------|--------------------------|
|   | Performance              |                          |                          |                           |                          |                          |                          |
| <b>Thermal transmittance (U-value)</b>  | 1.0 W/(m <sup>2</sup> K) | 1.0 W/(m <sup>2</sup> K) | 1.1 W/(m <sup>2</sup> K) | 0.86 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) |
| <b>Light transmittance (τ<sub>v</sub>)</b>  | 0.62                     | 0.62                     | 0.70                     | 0.62                      | 0.57                     | 0.68                     | 0.68                     |
| <b>Total solar energy transmittance (g-value)</b>                                 | 0.44                     | 0.44                     | 0.54                     | 0.44                      | 0.27                     | 0.49                     | 0.46                     |
| <b>Sound insulation (R<sub>w</sub>)</b>   | 37(-2;-4)                | 37(-2;-4)                | 34(-2;-5)                | 38(-2;-5)                 | 35(-1;-3)                | 35(-1;-3)                | 35(-1;-3)                |
| <b>Air permeability, [class]</b>  | 4                        | 4                        | 4                        | 4                         | 4                        | 4                        | 4                        |
| <b>External fire performance - British [class]</b>                                | AA                       | AA                       | AA                       | AA                        | AA                       | AA                       | AA                       |
| <b>External fire performance - European [class]</b>                               | npd                      | npd                      | npd                      | npd                       | npd                      | npd                      | npd                      |
| <b>Impact resistance [class]</b>  | 3                        | 3                        | 3                        | 3                         | 3                        | 3                        | 3                        |
| <b>Load-bearing capacity of safety devices</b>                                    | ✓                        | ✓                        | ✓                        | ✓                         | ✓                        | ✓                        | ✓                        |
| <b>Reaction to fire [class]</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 [class]</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 [class]</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. |
|--|--|--|
| 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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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 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 and secure in cleaning position with barrel bolts.



VELUX repair and maintenance kits are available.

## Guarantee period

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