32-07-2024 11:47:06 VRW Roof windows en-WW - Approved

VELUX®

VELUX manual, bottomoperated 3in1 roof window GPLS





Enjoy the best view with the panoramic VELUX 3in1 roof window GPLS with two windows in one frame. The elegant handles at the bottom of the openable windows allow it to be opened up to 45° for an extra spacious balcony feeling.

- Refresh your home by opening one or two windows according to your needs
- Open the window outwards up to 45° to enjoy a panoramic view and a feeling of space.
- One frame module allows a simple well-known installation process with few components.
- Enjoy an extensive view to the outside and more daylight due to extra slim frame profiles
- Easily rotate the window 180° for safe cleaning of the outer glass from the inside.
- One-piece top cover and slim profile covers feature a very aesthetic integration in the roof.
- Adjust the bottom handle position to ventilate your home without opening the window.





Application guidance

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



VELUX 3in1 manual roof window GPLS opens outwards for an unobstructed, panoramic view. It consists of three windows, two openable, bottom-operated and one fixed, in one frame. This provides extra daylight and an extensive view while offering all the benefits of our bottom-operated windows. To benefit optimally from the wide view, we recommend an installation height that allows for a clear sight line to the outside from both a standing and seated position.

Available sizes and daylight area

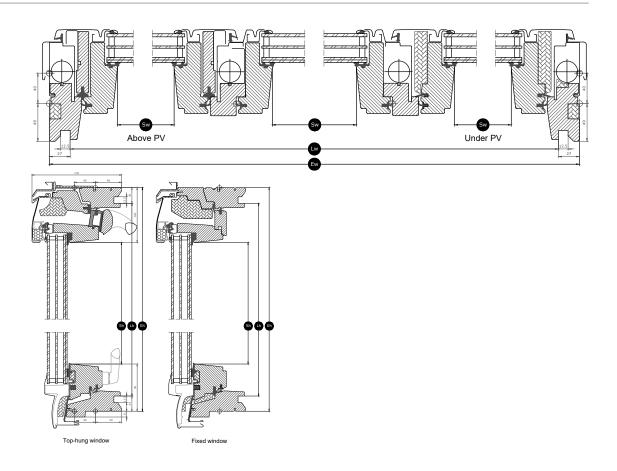
The size overview shows the availability across the different glazing variants. Please note that the individual glazing variant may not be available in all the sizes shown.

| | 1880 | |
|------|--------------------------|--|
| 1178 | GPLS FFKF06 (1.41) | |
| 1398 | GPLS FFKF08 (1.74) | |

All measurements are in mm. $\,$ () = Effective daylight area, m^2



Cross section dimensions

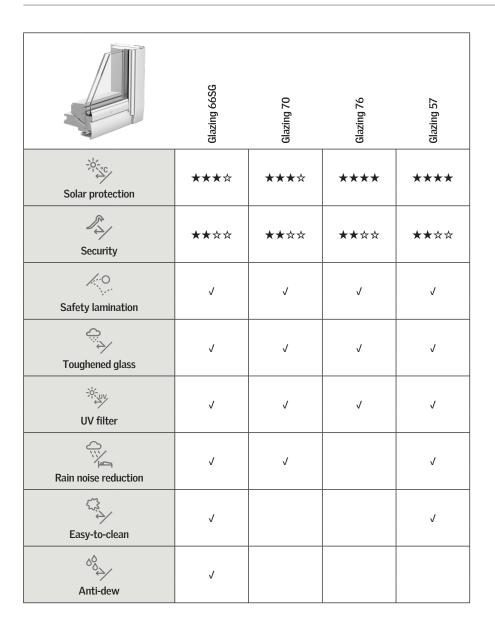


| Widtl | 1 | FFKF |
|-------|--|---------------|
| Sw | Sash aperture width | 481, 481, 481 |
| Lw | Distance between lining grooves, width | 1826 |
| Ew | Exterior frame width | 1880 |

| Heigh | t | 06 | 08 |
|-------|---|------|------|
| Sh | Sash aperture height | 984 | 1204 |
| Lh | Distance between lining grooves, height | 1119 | 1339 |
| Eh | Exterior frame height | 1178 | 1398 |



Glazing features



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 70 | Double-glazed | 6.8 mm laminated float glass - 16 mm Argon - 4 mm toughened glass | |
| Glazing 76 | Double-glazed | 6.8 mm laminated float glass - 16 mm Argon - 4 mm toughened glass | |
| Glazing 57 | 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 70 | Glazing 76 | Glazing 57 |
|---|--|--|--|--|
| Window characteristics | | Perfor | mance | |
| Thermal transmittance (U-value) | 1.1 (08), 1.2 (06) W/(m ² K) | 1.3 (08), 1.4 (06) W/(m ² K) | 1.3 (08), 1.4 (06) W/(m ² K) | 1.3 (08), 1.4 (06) W/(m ² K) |
| Light transmittance (τ,ν) | 0.62 | 0.68 | 0.62 | 0.61 |
| Total solar energy transmittance (g-value) | 0.44 | 0.46 | 0.30 | 0.30 |
| Sound insulation (Rw) | 36(-1,-5) | 34(-1;-4) | 34(-1;-4) | 34(-1;-4) |
| Air permeability, [class] | 4 | 4 | 4 | 4 |
| External fire performance - British [class] | npd | npd | npd | npd |
| External fire performance - European [class] | npd | npd | npd | npd |
| Impact resistance [class] | 3 | 3 | 3 | 3 |
| Load-bearing capacity of safety devices | V | V | V | V |
| Reaction to fire [class] | C-s1,d2 | C-s1,d2 | C-s1,d2 | C-s1,d2 |
| Resistance to snow load | ** | ** | ** | ** |
| Resistance to wind load [class] | C3 | C3 | C3 | C3 |
| Water tightness [class] | 9A | 9A | 9A | 9A |

Resistance to snow load = ** See glazing composition

NPD: No Performance Determined



Interior finish

| Material Description | White-painted Finished with triple coat, white painted. |
|--|--|
| Colour code NCS, inner surface | S 0500-N |
| Colour code nearest RAL, inner surface | 9003 |

Exterior covers

| Material Description | Aluminium, dark grey Dark grey | 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



To clean the outer glass surface from the inside, rotate sash and secure in cleaning position with barrel bolts. The fixed centre window can be cleaned outside by opening the right or left window.



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 or blackout. 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.