

VELUX vertical window element VFE

VELUX®

Glazing 70



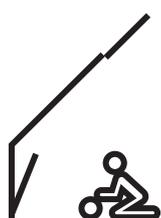
Extend your views with an openable, vertical window element, which is operated with a handle on the top sash. The window element fills the vertical space between the floor and the bottom of the roof window to provide better views with more natural daylight and fresh air. Available in lacquered or white-painted pine wood to perfectly match your other VELUX roof windows.

- Experience more daylight, extended views and more fresh air by adding an openable vertical window element.
- Enjoy the flow of fresh air by tilting the vertical window element inwards.
- The glazing comes standard with premium features like safety lamination, toughened glass, UV filter and our unique rain noise reduction.
- Inwards tilting sash to maximum 115 mm opening provides safety and peace of mind.
- It's possible to clean the outside of the window element by tilting it inwards up to 115 mm.
- A seamless look is made possible by the slim connection to the roof window.

CE

Application guidance

The vertical window element is always fixed to the bottom frame of a sloped roof window. The installation angle of the sloped window when combined with a vertical element is limited to 15-55°. The installation angle within this range is determined by the sloped roof window type and the flashing type with which it is installed.



The vertical window element VFE is installed vertically directly below a VELUX roof window. As it stretches nearly to the floor, it provides more daylight and an enhanced view when standing and when seated. The vertical window element VFE opens/tilts inwards and can be secured in ventilation position.

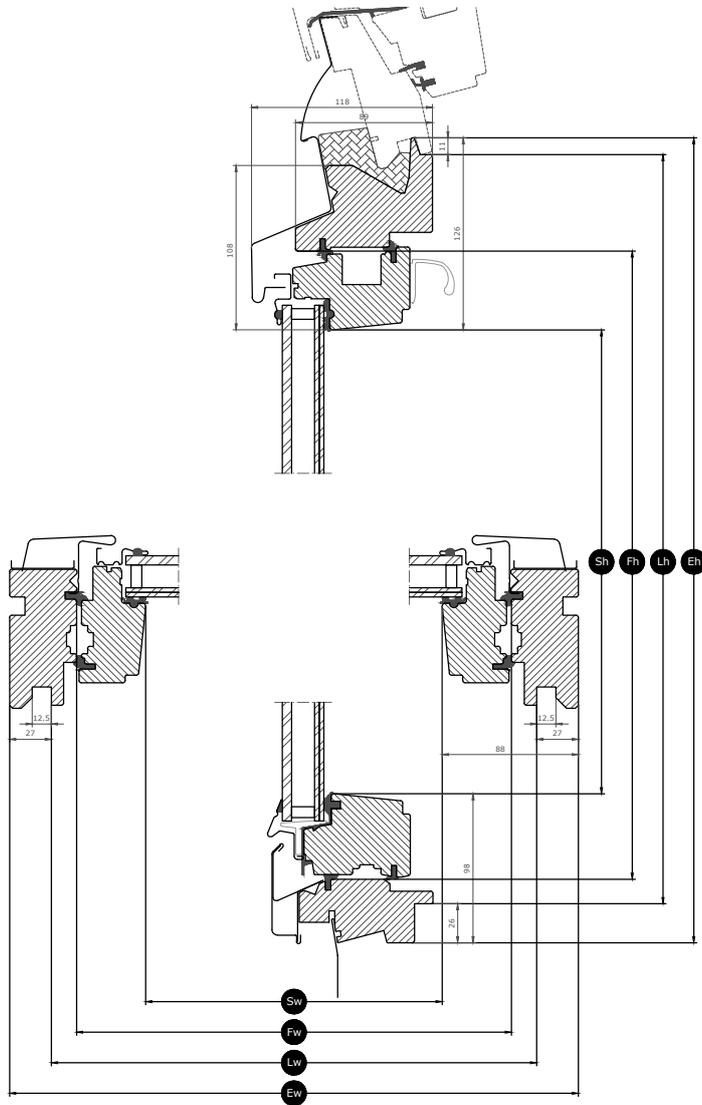
Available sizes and daylight area

| | 780 mm | 942 mm | 1140 mm | 1340 mm |
|--------|------------------------------|------------------------------|------------------------------|------------------------------|
| 601 mm | VFE MK31 (0.23) [0.07] | VFE PK31 (0.29) [0.09] | VFE SK31 (0.36) [0.12] | VFE UK31 (0.44) [0.14] |
| 955 mm | VFE MK35 (0.44) [0.07] | VFE PK35 (0.56) [0.09] | VFE SK35 (0.70) [0.12] | VFE UK35 (0.85) [0.14] |
| 1155 | VFE MK36 (0.56) [0.07] | VFE PK36 (0.71) [0.09] | VFE SK36 (0.89) [0.12] | VFE UK36 (1.08) [0.14] |
| 1375 | VFE MK38 (0.69) [0.07] | VFE PK38 (0.87) [0.09] | VFE SK38 (1.10) [0.12] | VFE UK38 (1.33) [0.14] |

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

Cross section dimensions

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



| Width | | MK-- | PK-- | SK-- | UK-- |
|-------|--|------|------|------|------|
| Sw | Sash aperture width | 601 | 763 | 961 | 1161 |
| Lw | Distance between lining grooves, width | 725 | 887 | 1085 | 1285 |
| Ew | Exterior frame width | 780 | 942 | 1140 | 1340 |

| Height | | --31 (VFE) | --35 (VFE) | --36 (VFE) | --38 (VFE) |
|--------|---|------------|------------|------------|------------|
| Sh | Sash aperture height | 377 | 731 | 931 | 1151 |
| Lh | Distance between lining grooves, height | 564 | 918 | 1118 | 1338 |
| Eh | Exterior frame height | 601 | 955 | 1155 | 1375 |

Glazing features

| Glazing 70 | |  |
|---|---|---|
|  | Heat insulation The low energy glazing unit reduces heat loss through the window and enhanced indoor comfort. | $U_g = 1.0$ |
|  | Solar gain In colder climates and in rooms with large window areas, solar gain provides a better indoor climate during winter periods. | 0.46 |
|  | Solar protection In warm climates and in rooms with large window areas, a sun protective glazing unit provides a better indoor climate during summer periods. | ★★★★☆ |
|  | Security Thicker laminated inner glass increases resistance to manual attack (burglary). | ★★★★☆ |
|  | Safety lamination Prevents glass from falling into the room in case of accidental breakage. | ✓ |
|  | Toughened glass Adds strength to the outer glass surface to protect from wayward balls and extreme weather such as heavy storms and hail. | ✓ |
|  | UV filter Protects your interior furnishings from fading due to the sun's harmful UV rays. | ✓ |
|  | Rain noise reduction Rain noise reduction creates a barrier between the window and the weather outside for undisturbed moments during rainy days – or nights. | ✓ |
|  | Easy-to-clean Dirt-repellent coating lets you spend less time cleaning and more time enjoying the view. | |
|  | Anti-dew 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 | Composition (from inside to outside) |
|---------------|---|
| 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.

| Window characteristics | Performance |
|--|--------------------------|
| Thermal transmittance (U-value) | 1.3 W/(m ² K) |
| Light transmittance (τ _v) | 0.68 |
| Total solar energy transmittance (g-value) | 0.46 |
| Sound insulation (R _w) | 35(-1;-3) |
| Air permeability, [class] | 3 |
| External fire performance - British [class] | AA |
| External fire performance - European [class] | npd |
| Impact resistance [class] | 3 |
| Load-bearing capacity of safety devices | npd |
| Reaction to fire [class] | C-s1,d2 |
| Resistance to snow load | See glazing composition |
| Resistance to wind load [class] | C3 (>SK08: NPD) |
| Water tightness [class] | 9A |

NPD: No Performance Determined

Visible features



Compound action arm

The compound action arm is fitted between the sash and frame and restricts the opening of the sash.



Blind bracket, vertical windows

Easily install blinds on the window without the need for extra tools. Simply click on the blind in the pre-fitted brackets.



Operating handle, vertical extension

Easy to operate handle allows for effortless operation of the vertical extension window.



Gasket

Forming the air and sound seal between the frame and sash.



Frame hinge, vertical extension, bottom

The frame hinges provide the opening function of the window.



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.



Gaskets

The gaskets provide a tight seal between the insulating glass unit and the sash.

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 of the vertical element from the inside, open and tilt the window inwards. For cleaning, the sash can be opened approx 45°. Special tool supplied with the 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, 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>.