

# Combined roof and vertical window element, pine finish – GGL+VFE



A combination of the GGL centre-pivot window and VFE vertical window is the ideal solution for rooms with a high inner wall. The view is improved considerably when the roof windows are extended down into the facade.

The top of the VFE frame is profiled so that it fits into the bottom frame of the roof window. Can be installed in a roof pitch between 15° and 55°.

The VFE element can also be combined with GHL and GPL top-hung roof windows. They can also be grouped for larger combinations.

## Application



VFE vertical window element is bottom-hung and opens inwards. Handle for opening the window to ventilation position.

## Features

VFE is operated by means of a handle at the top of the sash. Ventilation is obtained through a limited opening for safety. A release button makes it possible to open the window completely for easy cleaning of the exterior pane.

## Operation

10 year VELUX guarantee.

## Guarantee

Vertical window element for combination with a roof window.

## VFE can be combined with:

### Roof windows

- GGL
- GHL
- GPL



### Interior sunscreening

- Blackout blinds
- Roller blinds
- Pleated blinds
- Venetian blinds



### Flashings for

- Single installation
- Twin installation



### Exterior sunscreening

- Awning blind



### Additional accessories

- Insect screen



## Combinations

### Interior variants:

Pine with triple coat finish or white paint finish

## Variants

### Cladding variants:

Grey aluminium, titanium zinc, copper or other cladding types and colours

### Pane variants:

(--73) Toughened outer pane with clear and clean coating and laminated inner pane for additional safety

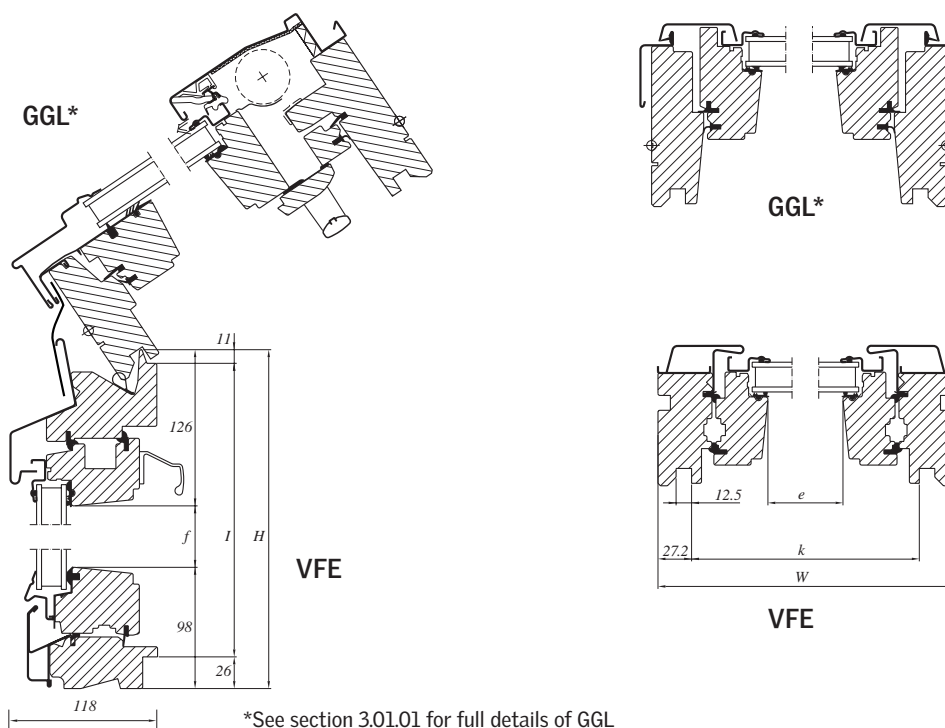
For more pane variants see section 8.

# Technical data – GGL+VFE

## Measurements (mm)

Size	Exterior frame W x H	Visible glass e x f	Lining rebate k x l
M31	780 x 600	603 x 376	726 x 564
M34	780 x 954	603 x 731	726 x 918
P31	942 x 600	765 x 376	888 x 564
P34	942 x 954	765 x 731	888 x 918
S31	1140 x 600	963 x 376	1086 x 564
S34	1140 x 954	963 x 731	1086 x 918
U31	1340 x 600	1163 x 376	1286 x 564
U34	1340 x 954	1163 x 731	1286 x 918

## Cross-section/measurements (mm)



## Sizes (cm)



VELUX GB/IRL product packages

Available to order

## Technical data

	Size	M31	M34	P31	P34	S31	S34	U31	U34
Ventilation – open window [m <sup>2</sup> ]		0.33	0.58	0.41	0.72	0.51	0.88	0.61	1.05
Effective daylight area [m <sup>2</sup> ]		0.23	0.44	0.29	0.56	0.36	0.70	0.44	0.85
<b>Pane variant</b>	<b>--73</b>	<b>EN/ISO Standard</b>							
Thermal transmittance, U <sub>w</sub> [W/m <sup>2</sup> K]		EN ISO 12567-2							
Sound insulation, R <sub>w</sub> [dB]		EN ISO 140-3/EN ISO 717-1							
Air permeability		Class 3 EN 12207							
Light transmittance, τ <sub>v</sub>		EN 410							
Total solar energy transmittance, g		EN 410							