

Product information Vertical window element VFE



Product description

- High quality natural pinewood coated with impregnation and layers of water-based acrylic clear lacquer or white paint
- Bottom-hung sash
- Inwards opening/tilting sash
- Handle on the top sash
- For installation in the wall below a VELUX roof window
- Maintenance-free exterior covers

Roof pitch

For vertical installation below a VELUX roof window installed in a roof pitch between 15° and 55°

Materials

- Laminated pinewood
- Glass, toughened outer glass / laminated inner glass
- Lacquered aluminium, copper or zinc

Downloads

For installation instructions, CAD drawings, 3D BIM objects, 3D GDL objects etc, please visit www.velux.bg.

Certifications



The VELUX product factories guarantee quality systems implementation process and environmental management systems through appropriate accreditations ISO 9001 and ISO 14001

In compliance with the EU Timber Regulation (EUTR), EU regulation 995/2010 EUTR

REACH

We are aware of the REACH regulation and acknowledge the obligations. No products are obliged to be registered in accordance to REACH and none of our products contain any Substances of Very High Concern.



Available sizes and daylight area

	472 mm	550 mm	660 mm	780 mm	942 mm	1140 mm	1340 mm
500 mm				VFE MK31	VFE PK31	VFE SK31	VFE UK31
9				(0.23)	(0.29)	(0.36)	(0.44)
954 mm				VFE MK35	VFE PK35	VFE SK35	VFE UK35
6				(0.44)	(0.56)	(0.70)	(0.85)
1154 mm				VFE MK36	VFE PK36	VFE SK36	VFE UK36
1374 mm				VFE MK38	VFE PK38	VFE SK38	VFE UK38

Lining measurements

Size	Width (mm)
MK	603
PK	765
SK	963
UK	1163

Size	Height (mm)
31	377
35	731
36	931
38	1151

() = Effective daylight area, m^2



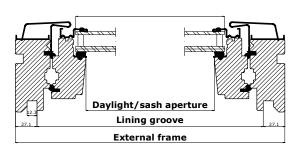
Vertical window element VFE

- is installed vertically directly below a VELUX roof window
- opens/tilts inwards
- features insulating glass unit with safety glass
- can be secured in ventilation position with sash approx 155 mm open

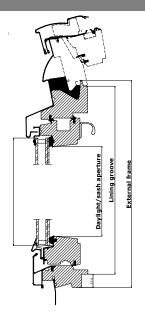
Combining a roof window and a vertical window element ensures $% \left(x\right) =\left(x\right) +\left(x$

- even more daylight
- a great view when standing and when seated

Width



Height





Technical values

	73	57	60	66
U _w [W/m ² K]	1.2	1.2	1.2	1.0
Ug [W/m²K]	1.0	1.0	1.0	0.7
R _w [dB]	35	37	37	37
g[]	0.52	0.30	0.30	0.50
₹ []	0.75	0.61	0.61	0.69
τυν []	0.05	0.05	0.05	0.05
Air permeability [class]	4	4	4	4

Thermal improvements such as lower U-value (U_n) and lower linear heat loss coefficient (ϕ) can, for some variants, be obtained with frame insulation collar and/or recessed installation.

Glazing structure

	73	57	60	66
Inner glass pane	2 x 3 mm laminated float with low ε coating	$2 \times 3 \text{ mm}$ laminated float with low ϵ coating	$2 \times 3 \text{ mm}$ laminated float with low ϵ coating	$2 \times 3 \text{ mm}$ laminated float with low ϵ coating
Middle glass pane	-	•	•	3 mm heat strengthened float with low ε coating
Outer glass pane	4 mm toughened	6 mm toughened with coatings	6 mm toughened with coatings	4 mm toughened with coatings
Cavity	15 mm	15 mm	15 mm	2 x 12 mm
Glass panes	Double	Double	Double	Triple
Gas filling	Argon	Argon	Argon	Argon



Glazing features

		73	57	60	66
*	Heat insulation Low energy glazing provides reduced heat loss through the window and enhanced indoor comfort.	••	••	••	•••
3 1	Solar gain In the wintertime, the heat from the sun entering through the windows is a usable solar gain.	••	•	•	••
1	Solar protection In warm climates and in rooms with large window areas, a sun protective coating provides a better indoor climate during summer periods. Alternatively, exterior sunscreening can be installed.		•••	•••	
(1)	Sound insulation A combination of laminated glass and optimal glass thickness provides better sound insulation. Frame/sash construction and gaskets are equally important.	••	•••	•••	•••
1	Security Thicker laminated inner glass pane designed to increase resistance to manual attack (burglary).	•		•	•
	Energy balance The energy balance represents the ability of the roof window to utilise the passive solar gain and keep in the heat during winter and its ability to protect against the risk of overheating during summer. Sunscreening products can further improve indoor summer comfort.	✓	✓	1	1
D,	Safety Laminated inner glass is designed to hold the fragments together if the glass breaks. We recommend that you consider using glass units with laminated glass on the inside for windows placed above areas where people sleep, play or work.	✓	✓	1	1
****	Outside strength Toughened outer glass pane makes your glazing more resistant to hail, heavy wind and snow loads.	1	1	1	1
	Delayed fading of materials Inner laminated glass protects materials behind the glass against UV radiation and therefore delays fading of the materials.	1	/	1	/
(G)	Rain noise reduction The combination of laminated glass and extra thick glass helps provide a significant, audible reduction of rainfall sound. Frame/sash construction and gaskets are equally important.		/	/	
*	Easy-to-clean The easy-to-clean coating minimises the cleaning frequency of the outer glass pane and gives you a clearer view in case of rain.		/	1	/
	Anti-dew The anti-dew coating significantly reduces the days with dew on the outer glass pane and thus gives you a clear view.				1

• Good •• Better ••• Best Feature included in glazing variant



Visible features





- n Data plate
- window type, size and variant code
 CE marking
 production code
 QR code



- 6 Handle
- anodised aluminium



- 2 Covers
- lacquered aluminium



- Brackets for accessories
- plasticcolour: grey



4 Laminated glass

Laminated inner glass on all variants for personal safety



- 6 Insulated top cover
- soft foamcolour: grey



Cleaning and maintenance



To clean the outer pane 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.

Exterior covers

Material	NCS standard colour	RAL nearest standard colour			
Lacquered aluminium (-0) grey	S 7500-N	7043			
Copper (-1)		-			
Titanium zinc (-3)	-	-			

Special colour requests, please contact www.velux.bq.

Interior finish

Clear lacquer	Impregnation and layers of water-based acrylic lacquer
White paint	Impregnation and layers of water-based acrylic paint, NCS standard colour: S 0500-N, nearest RAL standard colour: 9003.

Special colour requests, please contact $\underline{www.velux.bg}.$

Blinds, awnings and shutters



Interior sunscreening Blackout blind Roller blind Flying pleated blind Double pleated energy blind Venetian blind Duo blackout blind



Exterior sunscreening

Awning blind



Available in manual and mains powered versions
 Available in manual version
The mains and solar powered versions are part of the VELUX INTEGRA® product

Flashings and installation products



Flashings for the complete installation:
 EF- for single installation
 EF- for twin installation
 EF- for combi installation

- Available for standard and recessed installation

Installation products for the roof window above VFE:

- Installation set BDX 20-- (incl BFX)
 Underfelt collar BFX 10-- including transverse drainage gutter
 Vapour barrier collar BBX 0000

Linings for the complete installation:
• Linings LS- + LVI (incl BBX)
• Kit for lining LSG (incl BBX)

Note

We reserve the right to make technical changes.

For more information on vertical window element VFE and other VELUX products, please visit www.velux.bg.