

# VELUX vertical roof terrace element VEA

Glazing 65G



Create an awe-inspiring roof terrace in places that you never thought possible with roof terrace windows. VELUX roof terrace windows provide access to the outdoors when opened and lots of daylight when closed. The combination of top-hung roof windows and a fixed or openable vertical bottom section provides seamless integration with your roof and outdoor terrace.

- Step out onto the terrace by simply opening the right-opening lower section.
- A seamless look is made possible by the slim connection to the roof window.
- Comes with a choice of white-painted surface to match most contemporary interiors or clear-lacquered surface for a natural wood atmosphere.



## Application guidance

The lower section must be installed vertically. The upper section can be installed within roof pitches between 35° and 53°.



The roof terrace offers direct access to the outside. The upper section is a GEL bottom-operated, top-hung window that opens outwards for an unobstructed, panoramic view. When the upper section is open, the lower section can be opened to create a doorway to the terrace. The side-hung lower section is opened/closed with a handle on the side sash. Lower section VEA vertical window element opens to the right, VEB vertical window element opens to the left, and VEC vertical window element is fixed. When installed in combination, lower section VEA can be placed to the far right only and lower section VEB to the far left only (seen from the inside). All other lower sections must be VEC.

A roof terrace can contain one opening vertical window element only.

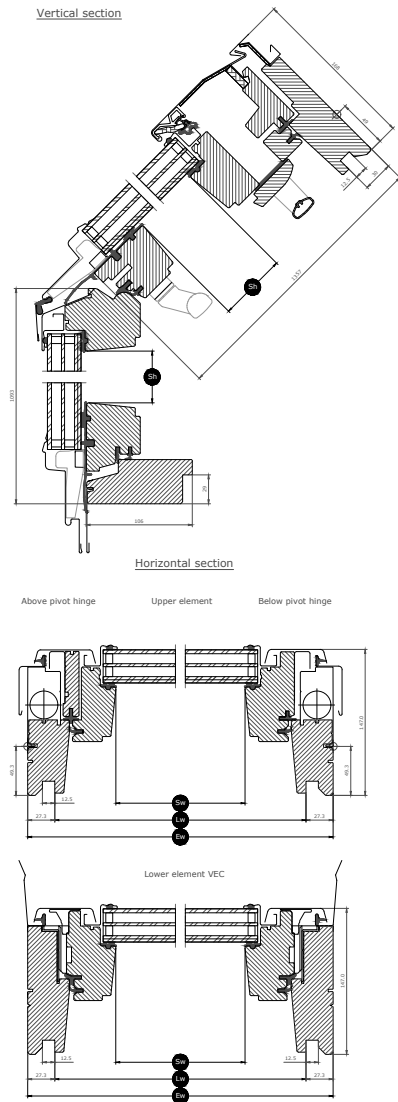
## Available sizes and daylight area

	780 mm
1093 mm	VEA M35 (0.56) [0.64]

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

## Cross section dimensions



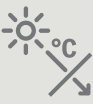






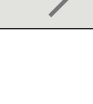
Please note that the view of the cross section is from bottom to top.



Width		M--
Sw	Sash aperture width	603
Lw	Distance between lining grooves, width	726
Ew	External frame width	780

Height		--35
Sh	Sash aperture height	930
Lh	Distance between lining grooves, height	N/A
Eh	External frame height	1093

# Glazing features

Glazing 65G 		
	<b>Heat insulation</b> The low energy glazing unit reduces heat loss through the window and enhanced indoor comfort.	$U_g = 0.5$
	<b>Solar gain</b> In colder climates and in rooms with large window areas, solar gain provides a better indoor climate during winter periods.	<b>0.44</b>
	<b>Solar protection</b> In warm climates and in rooms with large window areas, a sun protective glazing unit provides a better indoor climate during summer periods.	★★★★☆
	<b>Security</b> Thicker laminated inner glass increases resistance to manual attack (burglary).	★★★★☆
	<b>Safety lamination</b> Prevents glass from falling into the room in case of accidental breakage.	✓
	<b>Toughened glass</b> Adds strength to the outer glass surface to protect from wayward balls and extreme weather such as heavy storms and hail.	✓
	<b>UV filter</b> Protects your interior furnishings from fading due to the sun's harmful UV rays.	✓
	<b>Rain noise reduction</b> Rain noise reduction creates a barrier between the window and the weather outside for undisturbed moments during rainy days – or nights.	✓
	<b>Easy-to-clean</b> Dirt-repellent coating lets you spend less time cleaning and more time enjoying the view.	✓
	<b>Anti-dew</b> 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	Variant composition
Triple-glazed	6.8 mm laminated float glass - 11 mm Krypton - 3 mm heat strengthened glass - 11 mm Krypton - 4 mm toughened glass

## Technical values for the window

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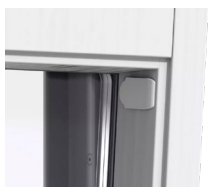
Overview of technical values for the product, covering among other, CE marking in accordance with EN 14351-1.

Window characteristics	Performance
Thermal transmittance	1.0 W/(m²K)
Light transmittance	0.62
Total solar energy transmittance	0.44
Sound insulation	35(-1;-4)
Air permeability	3
External fire performance - British	npd
External fire performance - European	npd
Impact resistance	npd
Load-bearing capacity of safety devices	✓
Reaction to fire	C-s1,d2
Resistance to snow load	See glazing composition
Resistance to wind load	C3 (>SK08: npd)
Water tightness	9A

NPD: No performance determined

## Visible features

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### **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.



### **Frame hinge, roof terrace, side**

The hinges provide the side opening function of the vertical window element of the roof terrace window.



### **Operating handle with lock, roof terrace**

The upper section GEL is a top-hung window, which is operated at the bottom with a handle allowing effortless opening and closing of the window.



### **Gasket**

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



### **Gaskets**

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

## Interior finish

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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

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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

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The exterior of frame and sash can be cleaned with ordinary household cleaners. The outer glass surface can easily be cleaned from the roof terrace or through the upper section.



VELUX repair and maintenance kits are available.

## Guarantee period

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The full terms and conditions of the VELUX Product Guarantee are available on our website [www.velux.co.uk](http://www.velux.co.uk) or [www.velux.ie](http://www.velux.ie)

## Flashings and installation products

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### **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

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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

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We reserve the right to make technical changes.

For more information on our products, please visit <https://www.velux.co.uk> or <https://www.velux.ie>.