VELUX 3-in-1 roof window GGLS

Glazing 66SG





With our new VELUX 3-in-1 daylight solution you will experience an extensive view, increased influx of daylight and an aesthetic design due to extra slim profiles. With three windows in one frame, this daylight solution allows for easy installation,

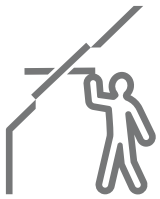
- Enjoy an extensive view to the outside and more daylight due to extra slim frame profiles
- Refresh your home by opening one or two windows according to your needs
- One-piece top cover and slim profile covers feature a very aesthetic integration in the roof.
- One frame module allows a simple well-known installation process with few components.
- Upgrade to a remote-controlled mains- or solar-powered motor for extra convenience.
- Get more control over your indoor climate with our wide range of accessories.
- Quickly and easily add blinds by simply clicking them into the pre-fitted brackets.

CE

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Application guidance

The window can be installed in roof pitches between 15° and 90° to the horizontal.



Manually top-operated, centre-pivot roof windows make it possible to place furniture directly below the window without obstructing the window's operation. The 3-in-1 roof window GGLS consists of two openable, centre-pivot and one fixed roof windows in one frame to provide extra daylight and an extensive view while offering all the benefits of our centre-pivot window. 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.

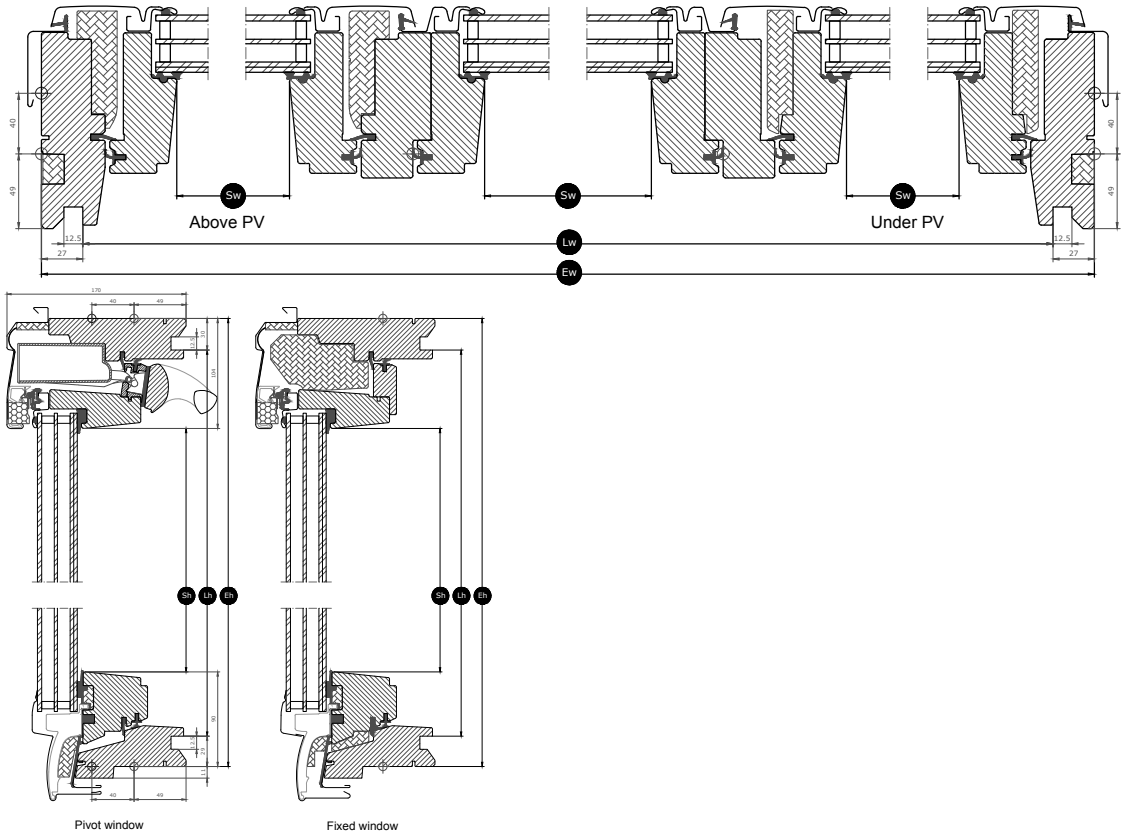
Available sizes and daylight area

	1880
1178	GGLS FFKF06 (1.41)
1398	GGLS FFKF08 (1.74)

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

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Cross section dimensions



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Glazing features

Glazing 66SG	
	Heat insulation The low energy glazing unit reduces heat loss through the window and enhanced indoor comfort.
	Solar gain In colder climates and in rooms with large window areas, solar gain provides a better indoor climate during winter periods.
	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)
Triple-glazed	6.8 mm laminated float glass - 13 mm Argon - 3 mm heat strengthened glass - 13 mm Argon - 4 mm toughened glass

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Technical values for the window

Overview of technical values for the product, covering among other, CE marking in accordance with EN 14351-2.

Window characteristics	Performance
Thermal transmittance (U-value)	1.0 (size 06: 1.1) W/(m2K)
Light transmittance (τ,v)	0.62
Total solar energy transmittance (g-value)	0.44
Sound insulation (Rw)	36(-1;-5)
Air permeability, [class]	Class 4
External fire performance - British [class]	npd
External fire performance - European [class]	npd
Impact resistance [class]	3
Load-bearing capacity of safety devices	✓
Reaction to fire [class]	C-s1,d2
Resistance to snow load	See glazing composition
Resistance to wind load [class]	Class C3
Water tightness [class]	9A

NPD: No Performance Determined

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Visible features



Control bar
The ergonomic aluminum control bar allows effortless opening and closing of the window. It can also lock the ventilation flap in the ventilation position.



Detachable sash
The fixed sash is detachable and can be taken out for an easier process during service or installation from the inside.



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



Ventilation flap
The full-width ventilation flap can be used for ventilation even with a closed window. The ventilation flap is connected to the top sash with the lock casing.



Frame hinge, centre-pivot, side
Durable hinge design allows for reliable operation and enables the sash to be rotated for easy cleaning of the outer glass.



Interior insulation, frame top
Innovative ThermoTechnology™ insulation is integrated into the top frame of the window to increase energy-efficiency.



Barrel bolt
The barrel bolt can be placed into the integrated barrel bolt bushing to secure the window for cleaning of outer glass surface or for safe ventilation.



Headlock
When closed, the window is locked firmly into place by the headlock.

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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 sash can be cleaned outside by opening the right/left sashes.



VELUX repair and maintenance kits are available.

Guarantee period

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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.

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