VELUX solar roof window GLL

Glazing 61 (with TPS spacer)

The VELUX solar, centre-pivot roof window GLL is a wireless solution that makes installation fast and easy. The roof window has an integrated and silent motor. Control is simple – just click on the wall switch. And if it rains, the rain sensor automatically closes the window.

- Solar-powered design delivers all of the benefits of a motorised window without the wires.
- Rain sensor automatically closes the window in the event of rain.
- The motor is hidden in the top cover and totally invisible from view.
- Easily control your roof window with the wireless wall switch that offers simple open/close/stop functionality.
- Silent motor keeps rooms quiet for sleeping children or simply for improved well-being.
- Entrapment control detects objects in the path of the window.
- Compatible with VELUX ACTIVE with NETATMO for a better indoor climate with sensor-based ventilation. Remote controlled via smartphone or voice.

CE

VRW Roof windows INTEGRA en-WW - Approved
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Application guidance

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

VELUX solar roof windows are easily operated by a wireless wall switch, providing fresh air at the touch of a button. Perfect for both within-reach and out-of-reach applications where extra comfort and convenient operation is required. For optimum daylight, choose larger windows for lower roof pitches.

Available sizes and daylight area

	550 mm	660 mm	780 mm	942 mm
778 mm	GLL CK02 (0.22) [0.10]			
978 mm			GLL MK04 (0.47) [0.28]	
1178		GLL FK06 (0.47) [0.24]	GLL MK06 (0.59) [0.28]	
1398			GLL MK08 (0.72) [0.28]	GLL PK08 (0.92) [0.33]
1600			GLL MK10 (0.85) [0.28]	

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

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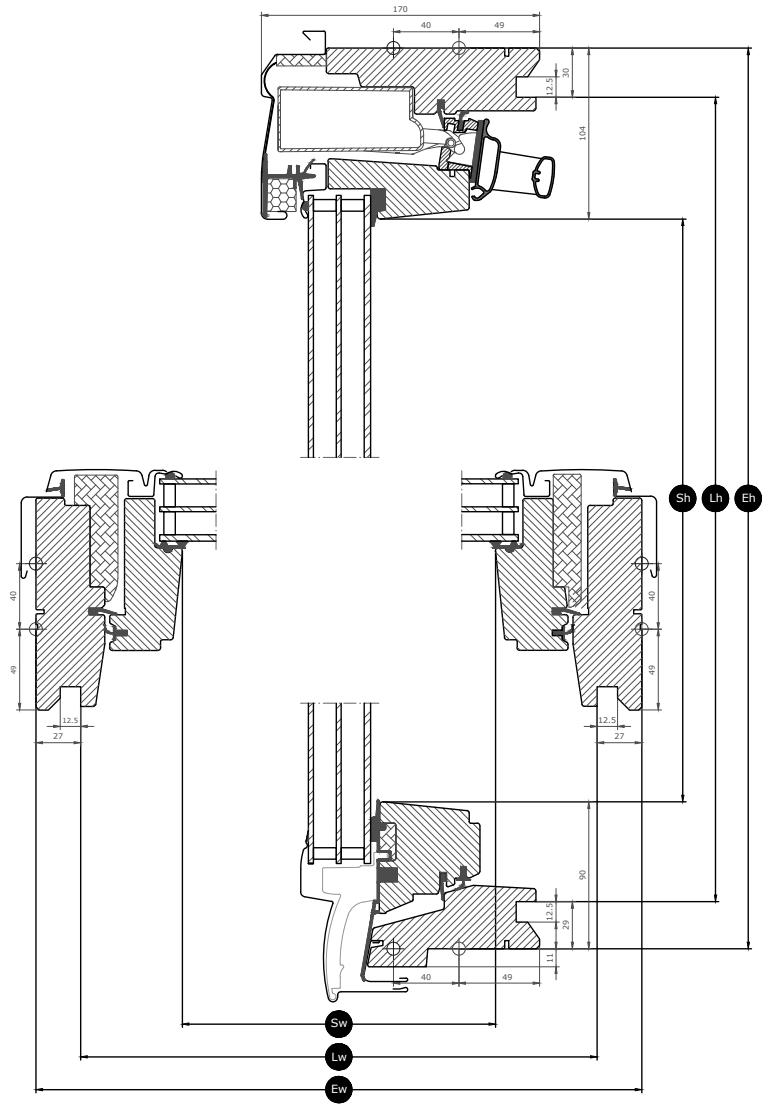
Cross section dimensions

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



Width		CK--	FK--	MK--	PK--
Sw	Sash aperture width	371	481	601	763
Lw	Distance between lining grooves, width	495	605	725	887
Ew	Exterior frame width	550	660	780	942

Height		--02	--04	--06	--08	--10
Sh	Sash aperture height	584	784	984	1204	1406
Lh	Distance between lining grooves, height	719	919	1119	1339	1541
Eh	Exterior frame height	778	978	1178	1398	1600

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Glazing features

Glazing 61 (with TPS spacer)		
	Heat insulation The low energy glazing unit reduces heat loss through the window and enhanced indoor comfort.	U_g = 0.6
	Solar gain In colder climates and in rooms with large window areas, solar gain provides a better indoor climate during winter periods.	0.50
	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).	N/A
	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 and flooring 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	4 mm float glass - 15 mm Argon - 3 mm heat strengthened glass - 15 mm Argon - 3 mm toughened glass

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Technical values for the window

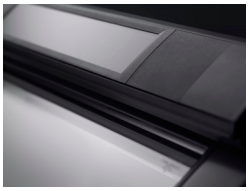
Overview of technical values for the product, covering among other, CE marking in accordance with EN 14351-1.

Window characteristics	Performance
Thermal transmittance (U-value)	1.1 W/(m²K)
Light transmittance (τ,v)	0.68
Total solar energy transmittance (g-value)	0.50
Sound insulation (Rw)	32(-1;-4) dB
Air permeability, [class]	4
External fire performance - British [class]	AC
External fire performance - European [class]	npd
Impact resistance [class]	3
Load-bearing capacity of safety devices	✓
Reaction to fire [class]	C-s1,d0
Resistance to snow load	See glazing composition
Resistance to wind load [class]	C3 (>SK08: NPD)
Water tightness [class]	E900

NPD: No Performance Determined

Visible features

Window operator, solar
Fully-integrated solar-powered motor is hidden from view in the top of the frame and is operated by remote control.



Integrated rain sensor, solar
The roof window closes automatically in the event of rain or is prevented from opening thanks to the rain sensor.

Pre-paired wall switch
The convenient wall switch makes it easy to operate the electric or solar roof window. The wall switch has open/stop/close functionality and allows for grouping several of the same type of products in one switch.

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.

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.

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.

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

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Interior finish

Material Description	Clear lacquer Finished with double coat.
Colour code NCS, inner surface	No colour code
Colour code nearest RAL, inner surface	No colour code

Exterior covers

The availability of the variants listed below may change. For the most accurate and up to date information, please refer to the current product catalogue or price list.

Material Description	Aluminium, dark grey Dark grey
Colour code NCS, outer surface	S 7500-N
Colour code nearest RAL, outer surface	7043

Cleaning and maintenance

To clean the outer glass surface from the inside, rotate sash manually and secure in cleaning position with barrel bolts.

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 solar 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.

VELUX ACTIVE with NETATMO compatiblity

Compatible with VELUX ACTIVE with NETATMO for a better indoor climate with sensor-based ventilation. Remote controlled via smartphone or voice.

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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Technical information

VELUX solar roof window GLL	**Installation and use**	The window is classified in protection class IP44. The window operator is hidden in the top cover and functions at temperatures between -10 °C and +60 °C. Installation in rooms with a high level of humidity must comply with relevant regulations (contact a qualified electrician if necessary).
	Window opening	The window operator permits a maximum opening of 200 mm within 35 seconds. Due to a shorter chain, small/special window sizes have a different window opening. Window opening for sizes --K01 and --K02 = 135 mm. Window opening for sizes --K25 and --K27 = 38 mm. The chain engages and disengages automatically when the window is closed.
	Compatibility	The roof window is based on radio frequency (RF) technology, 868 MHz range, and is compatible with other VELUX products with the io-homecontrol® logo. Subsequent installation of VELUX solar roller shutter SSL is possible if the window size code is FK--, MK--, PK--, SK-- or UK--. Only these sizes have enough room for the solar cell on the roller shutter top casing. For windows produced after June 2019, installation in windows with size code CK-- is also possible. Installation of VELUX solar awning blind MSL-VA requires adaptor plate kit ZOZ 213K. The kit must be purchased separately. Installation of VELUX solar MSL-SA and SSS-SA is possible if the window size is MK--, PK--, SK-- and UK--. For sizes CK-- or FK--, dual solar switch ZOZ 246 is required. Please note that the roller shutter must be io-homecontrol® labelled to be compatible with the VELUX solar roof window. Interior decoration and sunscreening products can be fitted to VELUX solar roof windows GLL and GLU. Please note that if these products are combined with VELUX solar roller shutter SSL or VELUX solar awning blind MSL, the battery recharging capability of the interior solar decoration and sunscreening products will be reduced. Connection to non-compatible products may cause damage or malfunction.
	Connection	Powered by the solar panel
Pre-paired wall switch	**Materials**	ABS plastic, white (NCS S 1000-N)
	Size and weight description	8.2 cm x 8.2 cm x 1.7 cm, 0.125 kg.
	Installation and use	The wall switch is for indoor use only, between a minimum ambient temperature 5 °C and a maximum ambient temperature 45 °C. It can be used in a dry or humid environment (such as a living room or a bathroom). Radio frequency range: 300 m range open field. Depending on the building construction, the indoor range is approximately 30 m.
	Power consumption	2 x alkaline AAA (1.5V) batteries Expected battery lifetime: Up to 1 year.
Integrated rain sensor, solar	**Materials**	PC with glass fibre
	Size and weight description	N/A
	Power consumption	N/A
Solar panel	**Materials**	ASA with glass fibre, black (NCS S 9000-N), with ASI 3 solar cell
	Size and weight description	Solar cell incl. rain sensor: 520 x 20 x 88 mm (W x H x D), 0.4 kg
Window operator, solar	**Materials**	Motor casing of polybutulene terephthalate (PBT) with glass fibre, black (NCS S 9000-N). Stainless steel chain.
	Size and weight description	370 x 50 x 110 mm (W x H x D), 1.2 kg
	Power consumption	90 uA standby, supplied by the battery. High performance battery, 10.8 V d.c., NiMH, type VELUX. Recharged continuously by the solar cell. A fully charged battery allows up to 300 operations without recharging. Expected battery lifetime of the solar powered window operator: Approximately 10 years.
	Motor capacity	Traction capacity: Min 225 N Pressure capacity: Min 150 N

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