

VELUX electric roof window GGU

VELUX®



The VELUX electric, centre-pivot roof window GGU is a wired solution that operates remotely using a wall switch – perfect for both in- and out-of-reach installations. The roof window has an integrated motor and a rain sensor that automatically closes the window if it rains. Moisture-resistance makes it ideal for kitchens and bathrooms.

- Rain sensor automatically closes the window in the event of rain.
- Mains-powered to allow for complete, seamless integration of your roof window into your home.
- 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.
- Entrapment control detects objects in the path of the window.
- Silent motor keeps rooms quiet for sleeping children or simply for improved well-being.
- Compatible with VELUX ACTIVE with NETATMO for a better indoor climate with sensor-based ventilation.
- Remote controlled via smartphone or voice.

CE

Application guidance

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



VELUX electric and 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.

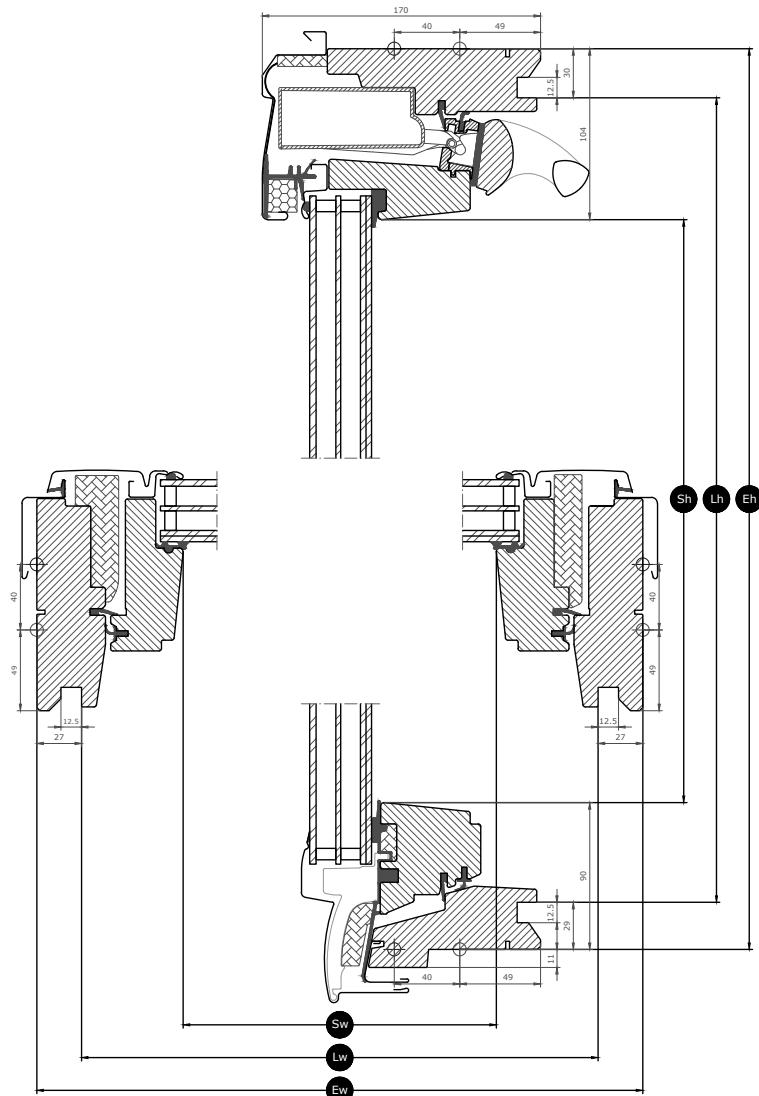
Available sizes and daylight area

The size overview shows the availability across the different glazing variants. Please note that the individual glazing variant may not be available in all the sizes shown.

	550	660	780	942	1140	1340
778	GGU CK02 (0.22) [0.10]					
978	GGU CK04 (0.29) [0.20]	GGU FK04 (0.38) [0.24]	GGU MK04 (0.47) [0.28]			GGU UK04 (0.91) [0.47]
1178	GGU CK06 (0.37) [0.20]	GGU FK06 (0.47) [0.24]	GGU MK06 (0.59) [0.28]	GGU PK06 (0.75) [0.33]	GGU SK06 (0.95) [0.39]	
1398		GGU FK08 (0.58) [0.24]	GGU MK08 (0.72) [0.28]	GGU PK08 (0.92) [0.33]	GGU SK08 (1.16) [0.39]	GGU UK08 (1.40) [0.46]
1600			GGU MK10 (0.85) [0.28]	GGU PK10 (1.07) [0.34]	GGU SK10 (1.35) [0.40]	GGU UK10 (1.63) [0.46]

All measurements are in mm. () = Effective daylight area, m² [] = Geometric free area, m²

Cross section dimensions



Width	CK--	FK--	MK--	PK--	SK--	UK--
Sw Sash aperture width	371	481	601	763	961	1161
Lw Distance between lining grooves, width	495	605	725	887	1085	1285
Ew Exterior frame width	550	660	780	942	1140	1340

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

Glazing features



	Glazing 66SG	Glazing 86	Glazing 67	Glazing 69	Glazing 68	Glazing 70	Glazing 57F
 Solar protection	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★
 Security	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★
 Safety lamination	✓	✓	✓	✓	✓	✓	✓
 Toughened glass	✓	✓	✓	✓	✓	✓	✓
 UV filter	✓	✓	✓	✓	✓	✓	✓
 Rain noise reduction	✓	✓	✓	✓	✓	✓	✓
 Easy-to-clean	✓	✓	✓				✓
 Anti-dew	✓	✓	✓				

Glazing structure

Glazing variant	Glazing unit	Composition (from inside to outside)
Glazing 66SG	Triple-glazed	6.8 mm laminated float glass - 13 mm Argon - 3 mm heat strengthened glass - 13 mm Argon - 4 mm toughened glass
Glazing 86	Triple-glazed	6.8 mm laminated float glass - 13 mm Argon - 3 mm heat strengthened glass - 13 mm Argon - 4 mm toughened glass
Glazing 67	Triple-glazed	6.8 mm laminated float glass - 12 mm Krypton - 3 mm heat strengthened glass - 12 mm Krypton - 4 mm toughened glass
Glazing 69	Triple-glazed	6.8 mm laminated float glass - 13 mm Argon - 3 mm heat strengthened glass - 13 mm Argon - 4 mm toughened glass
Glazing 68	Triple-glazed	6.8 mm laminated float glass - 13 mm Argon - 3 mm heat strengthened glass - 13 mm Argon - 4 mm toughened glass
Glazing 70	Double-glazed	6.8 mm laminated float glass - 16 mm Argon - 4 mm toughened glass
Glazing 57F	Double-glazed	6.8 mm laminated float glass - 16 mm Argon - 6 mm toughened glass

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)	1.0 W/(m ² K)	1.0 W/(m ² K)	0.88 W/(m ² K)	1.1 W/(m ² K)	1.1 W/(m ² K)	1.3 W/(m ² K)	1.3 W/(m ² K)
Light transmittance (τ,v)	0.62	0.62	0.62	0.57	0.68	0.68	0.60
Total solar energy transmittance (g-value)	0.44	0.44	0.44	0.27	0.49	0.46	0.30
Sound insulation (Rw)	37(-2;-4)	37(-2;-4)	38(-2;-5)	35(-1;-3)	35(-1;-3)	35(-1;-3)	37(-1;-3)
Air permeability, [class]	4 (PK10: 3)	4 (PK10: 3)	4 (PK10: 3)	4 (PK10: 3)	4 (PK10: 3)	4 (PK10: 3)	4 (PK10: 3)
External fire performance - British [class]	AC	AC	AC	AC	AC	AC	AC
External fire performance - European [class]	npd	npd	npd	npd	npd	npd	npd
Impact resistance [class]	3	3	3	3	3	3	3
Load-bearing capacity of safety devices	√	√	√	√	√	√	√
Reaction to fire [class]	D-s3,d2	D-s3,d2	D-s3,d2	D-s3,d2	D-s3,d2	D-s3,d2	D-s2,d2
Resistance to snow load	**	**	**	**	**	**	**
Resistance to wind load [class]	C3 (>SK08: NPD)	C3 (>SK08: NPD)	C3 (>SK08: NPD)	C3 (>SK08: NPD)	C3 (>SK08: NPD)	C3 (>SK08: NPD)	C3 (>SK08: NPD)
Water tightness [class]	E900	E900	E900	E900	E900	E900	E900

Resistance to snow load = ** See glazing composition

NPD: No Performance Determined

Interior finish

Material Description	White maintenance-free Finished with polyurethane lacquer.
Colour code NCS, inner surface	S 0500-N
Colour code nearest RAL, inner surface	9003

Exterior covers

Material Description	Aluminium, dark grey Dark grey	Titanium zinc	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 manually and secure in cleaning position with barrel bolts.



VELUX repair and maintenance kits are available.

Guarantee period

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>.

Technical information

VELUX electric roof window GGU	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. The roof window is prepared for subsequent installation of VELUX electric interior and exterior decoration and sunscreening products. It is compatible with all VELUX electric and solar decoration and sunscreening products but we recommend using the electric ones. Connection to non-compatible products may cause damage or malfunction.
	Connection	The window is equipped with a 4 m 2-core cable (H05VV-F) with a standard mains plug for connection to the mains supply (2.5 m for the UK).
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	Materials	Gold-coated sensor, Grey (RAL 7022)
	Size and weight description	N/A
	Power consumption	N/A
Window operator, electric	Materials	Motor casing of polybutulene terephthalate (PBT) with glass fibre, black (NCS S 9000-N). Stainless steel chain.
	Size and weight description	362 x 50 x 110 mm (W x H x D), 0.987 kg
	Power consumption	230/240 V a.c. – 50 Hz / 40 VA. Stand-by power consumption (including rain sensor): max 0.5 W. Additional stand-by power consumption for MML, SML or DML: 0.6 W. The operation of window and sunscreening product (3 cycles per day) will increase the energy consumption by approx 2 kWh/year.
	Motor capacity	Traction capacity: Min 225 N Pressure capacity: Min 150 N