VELUX manual centre-pivot roof window GGL





The original VELUX top-operated, centre-pivot roof window GGL is easy to operate and gives you the freedom to place furniture underneath. The innovative top control bar allows you to install the window at a lower position to get an excellent view while standing and even when seated.

- Open the top control bar to the ventilation position for fresh air through a closed window.
- Refresh your home by slightly opening the window and fixing it in the top bushing.
- Easily rotate the window 180° for safe cleaning of the outer glass from the inside.
- Removable and cleanable ventilation filter protects your home from dust and insects while ventilating.
- Maintenance-free exterior covers increase peace of mind throughout the lifetime of the roof window.
- The exclusive top control bar complements the window for a modern, elegant look.
- Upgrade to a remote-controlled mains- or solar-powered motor for extra convenience.

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. We recommend an installation height that allows for a clear sight line to the outside from both a standing and seated position. Please note that the optimum window height depends on the roof pitch.

Available sizes and daylight area

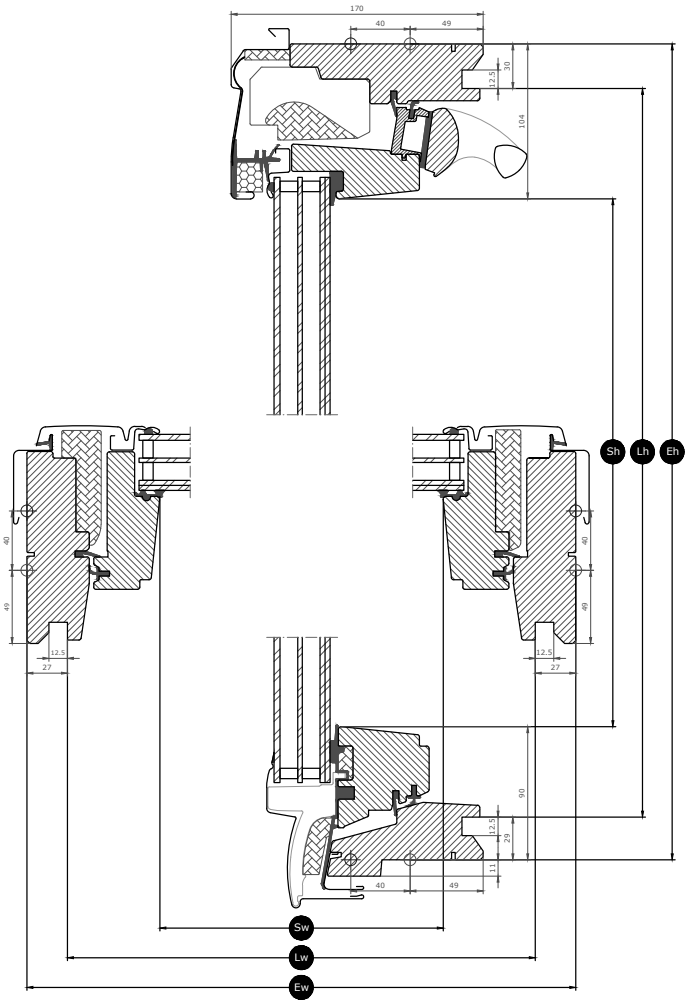
The size overview shows the availability across the different glazing variants. Please note that the individual glazing variant may not be available in all the sizes shown.

	472	550	660	780	942	1140	1340
550					GGL PK25 (0.27) [0.31]		
624				GGL MK27 (0.26) [0.30]			
698		GGL CK01 (0.19) [0.23]				GGL SK01 (0.48) [0.54]	
778		GGL CK02 (0.22) [0.26]					
978	GGL BK04 (0.23) [0.28]	GGL CK04 (0.29) [0.34]	GGL FK04 (0.38) [0.43]	GGL MK04 (0.47) [0.53]	GGL PK04 (0.60) [0.66]		GGL UK04 (0.91) [0.98]
1178		GGL CK06 (0.37) [0.43]	GGL FK06 (0.47) [0.54]	GGL MK06 (0.59) [0.66]	GGL PK06 (0.75) [0.83]	GGL SK06 (0.95) [1.03]	GGL UK06 (1.15) [1.23]
1398			GGL FK08 (0.58) [0.66]	GGL MK08 (0.72) [0.81]	GGL PK08 (0.92) [1.01]	GGL SK08 (1.16) [1.25]	GGL UK08 (1.40) [1.54]
1600				GGL MK10 (0.85) [0.94]	GGL PK10 (1.07) [1.17]	GGL SK10 (1.35) [1.46]	GGL UK10 (1.63) [1.80]
1800				GGL MK12 (0.97) [1.07]			

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

Creation date 27-10-2026 18:47:45

Cross section dimensions



Width		BK--	CK--	FK--	MK--	PK--	SK--	UK--
Sw	Sash aperture width	293	371	481	601	763	961	1161
Lw	Distance between lining grooves, width	417	495	605	725	887	1085	1285
Ew	Exterior frame width	472	550	660	780	942	1140	1340

Height		--01	--02	--04	--06	--08	--10	--12	--25	--27
Sh	Sash aperture height	504	584	784	984	1204	1406	1606	356	430
Lh	Distance between lining grooves, height	639	719	919	1119	1339	1541	1741	491	565
Eh	Exterior frame height	698	778	978	1178	1398	1600	1800	550	624

Creation date 27-10-2026 18:47:45

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

Creation date 27-10-2026 18:47:45

Technical values for the window

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

	Glazing 66SG	Glazing 86	Glazing 67	Glazing 69	Glazing 68	Glazing 68	Glazing 70
Window characteristics	**Performance**						
Thermal transmittance (U-value)	1.0 W/(m²K)	1.0 W/(m²K)	0.83 W/(m²K)	1.1 W/(m²K)	1.1 W/(m²K)	1.1 W/(m²K)	1.3 W/(m²K)
Light transmittance (τ,v)	0.62	0.62	0.62	0.57	0.68	0.68	0.68
Total solar energy transmittance (g-value)	0.44	0.44	0.44	0.27	0.49	0.49	0.46
Sound insulation (Rw)	37(-2;-4)	37(-2;-4)	38(-2;-5)	35(-1;-3)	35(-1;-3)	35(-1;-3)	35(-1;-3)
Air permeability, [class]	4	4	4	4	4	4	4
External fire performance - British [class]	AC	AC	AC	AC	AC	AC	AC
External fire performance - European [class]	Broof(t1)	npd	npd	Broof(t1)	Broof(t1)	NPD	Broof(t1)
Impact resistance [class]	3	3	3	3	3	3	3
Load-bearing capacity of safety devices	√	√	√	√	√	√	√
Reaction to fire [class]	C-s1,d2	C-s1,d2	C-s1,d2	C-s1,d2	C-s1,d2	C-s1,d2	C-s1,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

Creation date 27-10-2026 18:47:45

Interior finish

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

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	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

Creation date 27-10-2026 18:47:45

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.

Creation date 27-10-2026 18:47:45