

# VELUX flat glass ISD 2093

**VELUX®**



Available base  
units

The VELUX flat glass top unit has a modern, sophisticated design with a maintenance-free outer glass for long-lasting quality. Engineered to limit the amount of noise from traffic and weather, and strengthened to ensure effective protection from heavy snow, rain and hail. Compatible with VELUX INTEGRA® sunscreening accessories for daylight control and light dimming.

- A sophisticated look that blends seamlessly with your flat-roof home design.
- Increase your comfort and the lifetime of your flat-roof window with the maintenance-free, scratch-resistant, sleek glass top.
- Suitable for the majority of flat roofs (roof pitches down to 2°) and offers natural drainage of water and snow at 5°.
- Enjoy a long-lasting clear view made possible by the easy-to-clean coating on the outer glass.
- Find the perfect light and shade solution that meets your personal needs.
- Get maximum protection from extreme weather with the toughened, scratch-resistant outer glass.
- Enjoy a quieter indoor environment from the efficient sound reduction of outside noises.



## Application guidance

The flat glass top unit can be installed with all base units (except flat-roof smoke ventilation window CSP and flat-roof exit window CXP) within the roof pitch range of 2° to 15°.



Combine the flat glass top unit with a base unit that meets your need for daylight and ventilation. Choose the electrically-vented base unit CVP for fresh air at the touch of a button or the fixed base unit CFP if your primary need is to be bring daylight into the room.

## Available sizes and daylight area

### Compatible Base Units

	600	800	900	1000	1200
600	ISD 060060 (0.19)				
800		ISD 080080 (0.40)			
900	ISD 060090 (0.32)		ISD 090090 (0.54)		
1000				ISD 100100 (0.70)	
1200			ISD 090120 (0.76)		ISD 120120 (1.07)
1500				ISD 100150 (1.11)	

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

## Technical values

Overview of technical values for the product, covering among other, CE marking in accordance with EN 1873 or EAD 200062-00-0401

Window characteristics	CFP 73QV + ISD 2093	CFP 73UT + ISD 2093	CVP Electric 73QV + ISD 2093	CVP Electric 73UT + ISD 2093
Air permeability	3	3	3	3
Thermal transmittance $U_{rc,ref300}$ (CE-marked) (U-value) [W/m <sup>2</sup> /K]	0.79	0.87	0.79	0.87
Arc, ref300 [m <sup>2</sup> ]	3.4	3.4	3.4	3.4
Light transmittance ( $\tau_v$ ) ( $\tau$ )	0.72	0.72	0.72	0.72
Sound insulation $R_{w,dB}$ [dB]	36	36	37	31
Total solar energy transmittance (g-value) (g)	0.52	0.54	0.52	0.54
Ultraviolet transmittance ( $\tau_{uv}$ ) ( $\tau_{uv}$ )	0.05	0.05	0.05	0.05
Burglar resistance window	2	npd	2	npd
Frame factor	0.26	0.26	0.26	0.26
Air permeability	3	3	3	3
Reaction to fire	B-s1,d0	B-s1,d0	B-s1,d0	B-s1,d0
Bonding of cover glass (glass of top unit)	$\Delta X \geq 0.75$	$\Delta X \geq 0.75$	$\Delta X \geq 0.75$	$\Delta X \geq 0.75$
External fire performance - European	npd	npd	npd	npd
External fire performance - British	npd	npd	npd	npd
Impact resistance	3	3	3	3
Impact resistance large soft body	N/A	N/A	N/A	N/A
Impact resistance small hard body	N/A	N/A	N/A	N/A
Rain noise (Lia)	npd	npd	npd	npd
Resistance to downward loads	N/A	N/A	N/A	N/A
Resistance to fire	npd	npd	npd	npd
Resistance to snow load	*	*	*	*
Resistance to upward load	N/A	N/A	N/A	N/A
Resistance to wind load	C3	C3	C3	C3
Water tightness	9A	9A	9A	9A

NPD: No Performance Determined

\* : See glazing composition



## Insulating glass unit structure

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<STEPTABLE O="Product-24483-0" OT="Product" TT="26335454" VC="Context1" VO="27388281" W="Approved" />

## Cleaning and maintenance

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Cleaning of the top unit is only possible from the outside. When cleaning the top unit, do not open the window. For electrical windows, switch off the mains supply.

To clean inner surface of top unit and outer glass surface of base unit, remove cover caps and screws to remove the top unit and fasten again after cleaning.

In regions with heavy snowfall, snow masses on the flat-roof window must be removed on a regular basis.

## Guarantee period

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## Blinds and awnings

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Complete your VELUX flat roof window with a blind for complete comfort. Choose from a range of blinds, including a translucent pleated blind for softening the light, anti-heat blind for heat protection and blackout energy pleated blind for darkening the room.

Use VELUX App Control or VELUX ACTIVE with NETATMO for smartphone control of your vented flat roof window and blinds.

## Further information

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We reserve the right to make technical changes.

For more information on our products, please visit <https://velux.com>.