

VELUX curved glass ISU 1093

VELUX®



The innovative, maintenance-free curved glass top unit for glass rooflights is a revolution in rooflight design. The premium choice for homeowners that are looking for a glass-to-edge design that boosts the appearance of their homes and delivers optimal drainage - even in 0° roof pitch. The outer glass is toughened making this a highly durable top unit that has increased resistance to wind, snow and hail. The curved glass top unit is compatible with all base units for glass rooflights CFU/CVU.

- Seamless glass-to-edge design blends into the roof and integrates perfectly onto flat-roofed homes.
- The curved-shaped top with natural drainage effect allows the window to be installed in roofs with 0° pitch
- Maintenance-free glass gives peace of mind and features a stylish design
- Discretely placed blackout or awning blind lets you enjoy maximum daylight influx and a stylish interior design at all times.
- The outer glass of the top unit is strength-tested in tough weather conditions.
- Toughened outer glass is attached with high-strength weather-proof sealant.
- Easy and safe transportation of the top unit from ground to roof; no need for manual lifting.



Application guidance

The curved glass top unit ISU 1093 can be installed with all new generation base units within the roof pitch range of 0°-15° degrees.



Combine the curved glass top unit with a base unit that meets your need for daylight only, or daylight and ventilation. Choose the vented base unit for glass rooflight CVU for fresh air at the touch of a button or the fixed base unit for glass rooflight CFU if your primary need is to bring daylight into the room.

Available sizes and daylight area

	600	800	900	1000	1200	1500	2000
600	ISU 060060 (0.29) [0.15]		ISU 090060 (0.45) [0.19]				ISU 200060 (1.04) [0.35]
800		ISU 080080 (0.54) [0.19]				ISU 150080 (1.06) [0.29]	
900			ISU 090090 (0.70) [0.21]		ISU 120090 (0.95) [0.26]		
1000				ISU 100100 (0.88) [0.24]		ISU 150100 (1.35) [0.31]	ISU 200100 (1.82) [0.38]
1200					ISU 120120 (1.3) [0.28]	ISU 150120 (1.64) [0.32]	
1500						ISU 150150 (2.07) [0.35]	

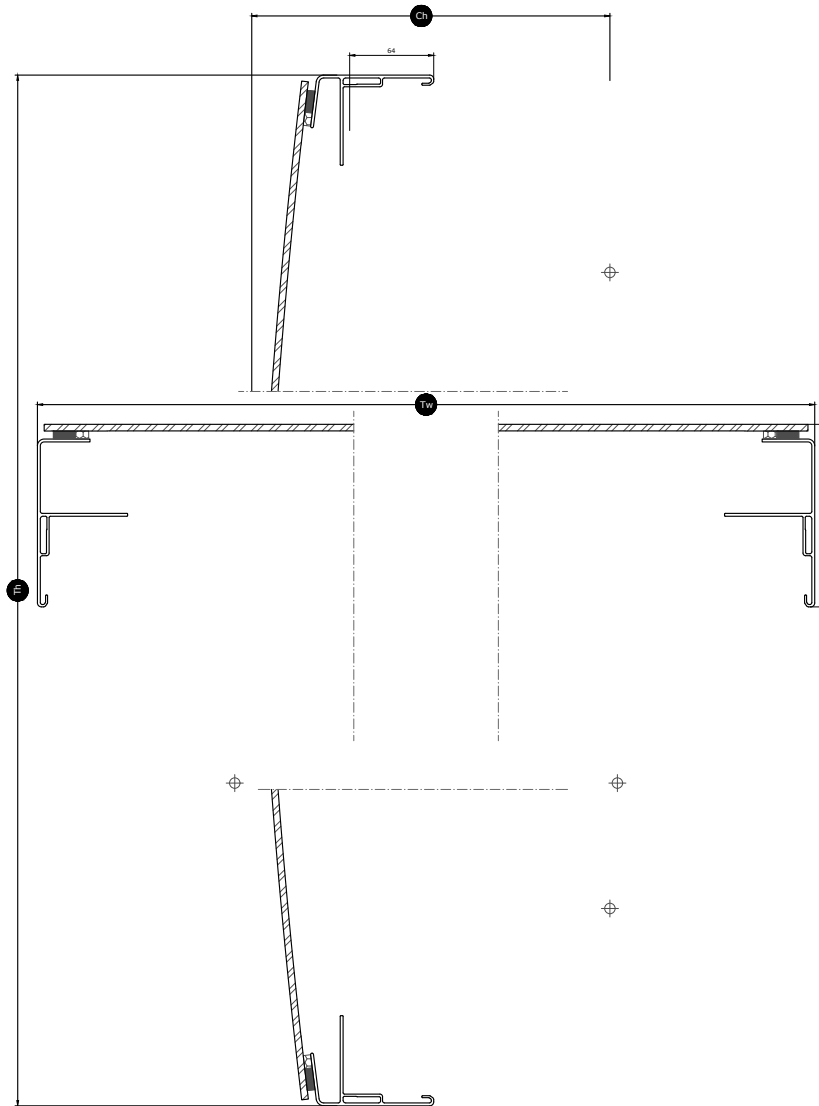
Technical values

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

Window characteristics	CFU 20Q + ISU 1093	CFU 25Q + ISU 1093	CVU 20Q + ISU 1093	CVU 20U + ISU 1093	CVU 25Q + ISU 1093	CVU 25U + ISU 1093	CXU 20U + ISU 1093	CXU 25U + ISU 1093
Air permeability, [class]	4	4	4	4	4	4	4	4
Thermal transmittance $U_{rc,ref300}$ (CE-marked) (U-value)	0.65	0.55	0.65	0.65	0.55	0.55	0.75	0.65
Arc, ref300 (U-value transmission area)	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
Light transmittance (τ_v) (τ)	0.69	0.63	0.69	0.69	0.63	0.63	0.68	0.63
Sound insulation (R_w) $R_{w,dB}$ [dB]	39	42	39	39	42	42	39	42
Total solar energy transmittance (g-value) (g)	0.52	0.49	0.52	0.52	0.49	0.49	0.52	0.49
Ultraviolet transmittance (τ_{uv}) (τ_{uv})	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Burglar resistance window [class]	RC2	RC2	RC2	RC1	RC2	RC1	NPD	NPD
Frame factor	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Air permeability, [class]	4	4	4	4	4	4	4	4
Reaction to fire [class]	C-s2, d2	C-s2, d2	C-s2, d2	C-s2, d2	C-s2, d2	C-s2, d2	C-s2, d2	C-s2, d2
Bonding of cover glass (glass of top unit) [class]	$\Delta X \geq 0.75$	$\Delta X \geq 0.75$	$\Delta X \geq 0.75$	$\Delta X \geq 0.75$	$\Delta X \geq 0.75$	$\Delta X \geq 0.75$	$\Delta X \geq 0.75$	$\Delta X \geq 0.75$
External fire performance - European [class]	Broof(t4)	Broof(t4)	Broof(t4)	Broof(t4)	Broof(t4)	Broof(t4)	Broof(t4)	Broof(t4)
External fire performance - British [class]	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
Impact resistance [class]	3	3	3	3	3	3	3	3
Impact resistance large soft body [class]	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Impact resistance small hard body [class]	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Rain noise (Lia)	44 dB	44 dB	44 dB	44 dB	44 dB	44 dB	44 dB	44 dB
Resistance to downward loads	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Resistance to fire [class]	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
Resistance to snow load	*	*	*	*	*	*	*	*
Resistance to upward load	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Resistance to wind load [class]	C3	C3	C3	C3	C3	C3	C3	C3
Water tightness [class]	9A	9A	9A	9A	9A	9A	9A	9A

Cross section dimensions

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



	060060	080080	090060	090090	100100	120090	120120	150080	150100	150120	150150	200060	200100
Ch: Height including top unit (mm)	253	262	267	267	273	286	286	310	310	310	310	359	359
Top unit glass thickness (mm)	5	5	5	5	5	5	5	5	5	6	6	8	5

Blinds and awnings

Complete your VELUX glass rooflight with a blind for complete comfort. Choose between an anti-heat blind to maintain a cool room on hot days or a blackout blind to block outside light for total darkness. The blinds are discreetly placed and do not compromise daylight and design when not in use. You also have the option of adding an insect screen that lets you enjoy fresh air without any insects.

Use VELUX App Control or VELUX ACTIVE with NETATMO for smartphone control of your vented glass rooflight and blinds.

Cleaning and maintenance



Cleaning of the top unit is only possible from the outside. When cleaning the top unit of vented glass rooflights, switch off the mains supply, ie do not open the rooflight.

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

Further information

We reserve the right to make technical changes.

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