VELUX flat glass ISU 2093





Available base units

20= double-glazed, 25= triple-glazed

The VELUX flat glass rooflight top unit has an elegant glass-to-edge flat shape with straight lines that almost becomes one with the roof. The outer glass is toughened making this a highly durable top unit that has increased resistance to wind, snow and hail. The flat glass top unit can be installed in roof pitches from 2°-15° and is compatible with all glass rooflight base units (CFU/CVU).

- Sleek modern edge-to-edge flat glass design blends seamlessly with the lines of your roof.
- Suitable for the majority of flat roofs down to 2° roof pitch and offers natural drainage at 5°.
- 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.
- Discretely placed blackout or awning blind lets you enjoy maximum daylight influx and a stylish interior design at all
- Easy and safe transportation of the top unit from ground to roof; no need for manual lifting.
- Special threaded installation screws for fast installation of the top unit.





Application guidance

The flat glass top unit ISU 2093 can be installed with all new generation base units within the roof pitch range of 2-15 degrees.



Combine the flat glass top unit with a base unit that meets your need for daylight and ventilation. Choose the electrically 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

Compatible Base Units

	600	800	900	1000	1200	1500	2000
600	ISU 060060 (0.29)		ISU 090060 (0.45)				
800		ISU 080080 (0.54)					
006			ISU 090090 (0.70)		ISU 120090 (0.95)		
1000				ISU 100100 (0.88)		ISU 150100 (1.35)	ISU 200100 (1.82)
1200					ISU 120120 (1.3)		
1500						ISU 150150 (2.07)	

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



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 2093	CFU 25Q + ISU 2093	CVU 20Q + ISU 2093	CVU 20U + ISU 2093	CVU 25Q + ISU 2093	CVU 25U + ISU 2093
Air permeability	4	4	4	4	4	4
Thermal transmittance Urc,ref300 (CE-marked) (U-value) [W/m2/K]		0.60	0.75	0.75	0.65	0.65
Arc, ref300 [m2]		4.1	4.1	4.1	4.1	4.1
Light transmittance (τ,ν) (τ)		0.63	0.68	0.68	0.63	0.63
Sound insulation R _w dB [dB]		41	39	39	41	41
Total solar energy transmittance (g-value) (g)	0.52	0.49	0.52	0.52	0.49	0.49
Ultraviolet transmittance (τ,υν) (τυν)		0.05	0.05	0.05	0.05	0.05
Burglar resistance window	RC2	RC2	RC2	RC1	RC2	RC2
Frame factor	0.1	0.1	0.1	0.1	0.1	0.1
Air permeability		4	4	4	4	4
Reaction to fire		D-s2, d2				
Bonding of cover glass (glass of top unit)		ΔX≥0.75	ΔX≥0.75	ΔX≥0.75	ΔX≥0.75	ΔX≥0.75
External fire performance - European		NPD	NPD	NPD	NPD	NPD
External fire performance - British		NPD	NPD	NPD	NPD	NPD
Impact resistance	3	3	3	3	3	3
Impact resistance large soft body	N/A	N/A	N/A	N/A	N/A	N/A
Impact resistance small hard body		N/A	N/A	N/A	N/A	N/A
Rain noise (Lia)	NPD	NPD	NPD	NPD	NPD	NPD
Resistance to downward loads		N/A	N/A	N/A	N/A	N/A
Resistance to fire		NPD	NPD	NPD	NPD	NPD
Resistance to snow load		*	*	*	*	*
Resistance to upward load		N/A	N/A	N/A	N/A	N/A
Resistance to wind load		C3	C3	C3	C3	C3
Water tightness	9A	9A	9A	9A	9A	9A

NPD: No Performance Determined

^{*:} See glazing composition





Insulating glass unit structure

<STEPTABLE 0="Product-6274011-1" OT="Product" TT="26335454" VC="Context22" V0="26405738" W="Approved" />

Cleaning and maintenance



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

To clean the inner surface of the top unit and the outer glass surface of the base unit, remove cover caps and screws to remove the top unit and fasten them again after cleaning. In regions with heavy snowfall, snow masses on the flat-roof window must be removed on a regular basis.

Guarantee period

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.

Further information

We reserve the right to make technical changes.

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