

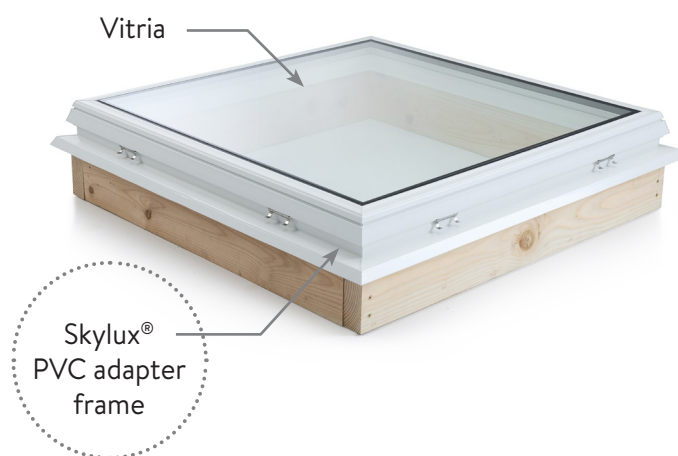
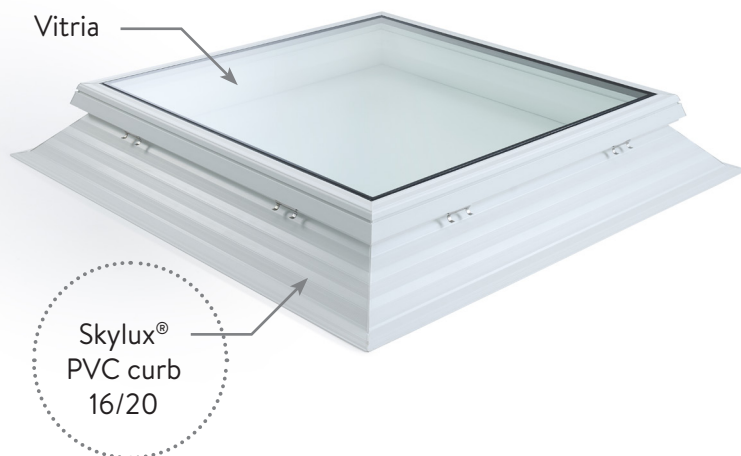


TECHNICAL FILE

Skylux® VITRIA

Flat roof window - fixed





General product description

The new Vitria glass flat roof window is made up of clear double glazing and features **an optimised glass composition**. The Vitria consists of a sleek white PVC frame with excellent insulation characteristics and sealing closures that attach to the curb below. These ensure good air and water tightness.

The Vitria flat roof window features a 'flush-design' / 'flat drainage surface', where the glass panel seamlessly transitions and extends slightly above the PVC frame. This allows for efficient and smooth drainage of rainwater.

The Vitria is suitable for flat roofs and can be installed at an inclination between a minimum of 4° to 25°. To prevent contamination of the outside of the glass, we recommend an inclination of 5°.

The flat roof window can be easily installed using the standard spring steel clips, which are compatible with both the PVC curbs and the adapter frame.

Variants available:

- * For installation on polyester or metal curbs; including a special hinge set
- * Fresh air ventilation is also possible with an openable model: with a mounted manual spindle or with mounted electric chain actuators.

Features

- daylight size = light transmission surface
- 'flush design' (the glass panel is higher than the PVC frame and connects seamlessly) for a sleek look and optimal rainwater drainage
- double glazing, with optimised glass composition
- good insulation value $U_t^* = U_g = 1.1 \text{ W/m}^2\text{K}$
- frame: extruded white PVC profile with good thermal properties
- compatible: fits on various curbs, also on the adapter frame
- high air and water tightness
- acoustic values: $R_w = 39 \text{ dB} (-1, -5)$
- plenty of dimensions in stock with fast delivery time; dimensions up to a maximum of 1000x2000 mm

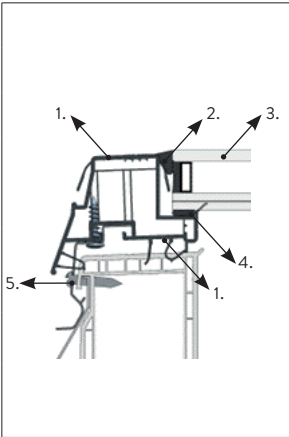
* U_t = U value of the translucent part (= glass), determined in accordance with EN 1873:2014+A1:2016

Specific characteristics: Skylux® PVC frame

Mechanical properties.....	Impact-resistant frame quality PVC type Benvic S white
Density in accordance with ISO 1183	1450 kg/m³
Fire class in accordance with EN 13501-1.....	E

Specific characteristics: Skylux® glass

Mechanical properties	HR++ double glazing
Type	laminated (inner pane) + hardened (outer pane)
Thickness.....	± 32 mm
Weight	± 36 kg/m²
Light transmission according to EN 410	clear 77%
Solar factor g (ZTA) according to EN 410.....	0,59
Sound insulation Rw according to EN 717-1	39 (-1,-5) dB
U _g value according to EN 673	1,1 W/m²K
Safety glass NBN EN 356	min. type P2A (44.2) or type P4A(44.4) for larger sizes

	1.	Frame	Multi-pane	PVC	White
				With triple soft Coex seals	
	2.	Seal		Outer structural sealing	
	3.	Glass	Outer pane	Tempered	Standard 6 mm 8 mm (large sizes)
			Gas	Argon	
			Spacer	16 mm	
			Inner pane	Laminated	44.2 / 44.4
	4.	Seal		Inner structural sealing	
	5.	Mounting system		Clips	with one-way burglar-resistant screws

Specific characteristics: assembled unit

Impact resistance in accordance with EN 1873:2014+A1:2016	SB 1200*
Airtightness in accordance with EN 1873:2014+A1:2016	Ap

* The Vitria meets the highest impact resistance class, but is not suitable as walkable glass.

Available daylight sizes

Daylight size (cm)		Daylight size (cm)	
Square 	40 x 40	Rectangular 	40 x 70
	50 x 50		40 x 100
	60 x 60		60 x 80
	70 x 70		60 x 90
	75 x 75		60 x 120
	80 x 80		70 x 100
	90 x 90		70 x 130
	100 x 100		80 x 110
	110 x 110		80 x 130
	120 x 120		80 x 180
	130 x 130		80 x 200
	140 x 140		90 x 120
	150 x 150		90 x 150
			100 x 130
			100 x 150
			100 x 160
			100 x 200
			100 x 220

Note

Depending on the dimensions and corresponding weight of the glass flat roof window, we recommend using hoisting and/or lifting equipment, both during transport and installation.

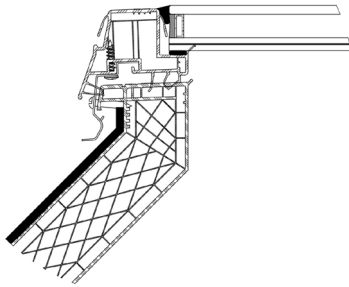
Maintenance: It is essential to regularly clean the exterior of the flat glass panel to prevent the build-up of dirt and standing water. After all, even when installed at a minimum inclination of 4°, flat glass always bends slightly (up to 5 mm at 20°C).

To prevent heat buildup beneath the transparent window (whether plastic, hybrid or glass) and thus potential deformation or damage to the PVC curb, frame, skylight or electrical parts, we advise against the installation of a sealed surface (e.g. closed black loft hatch) beneath the roof windows. We recommend using a reflecting (e.g. white) surface and/or ventilation.

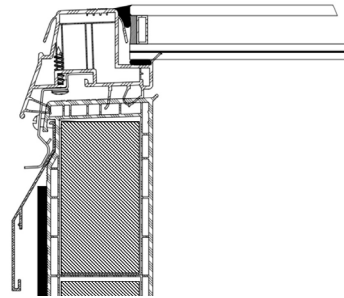
Technical drawings

- on Skylux PVC curb of your choice:

PVC 16/20 EP + Vitria fixed (clips incl.)

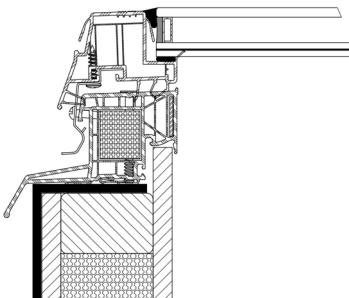


PVC 20/00 EP + Vitria fixed (clips incl.)

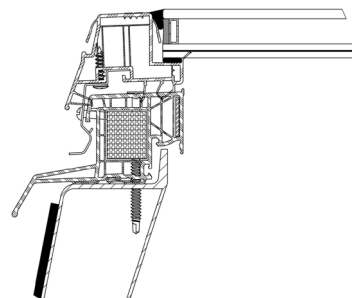


- on Skylux adapter frame:

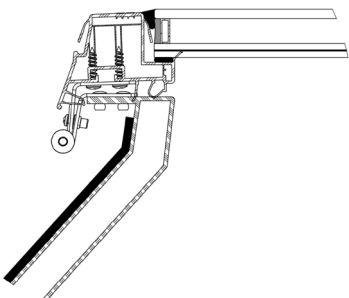
PVC adapter frame on wooden curb
+ Vitria fixed (clips incl.)



PVC adapter frame on non-Skylux polyester curb
+ Vitria fixed (clips incl.)



* Variant on request: Vitria fixed with assembly kit for special polyester curb hinges or metal curb with equal daylight size
+ Vitria fixed with special hinge set



Certificates

- In accordance with performances of EN 1873:2014+A1:2016, but no CE, as there is no specific standard for glass flat roof windows.

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