

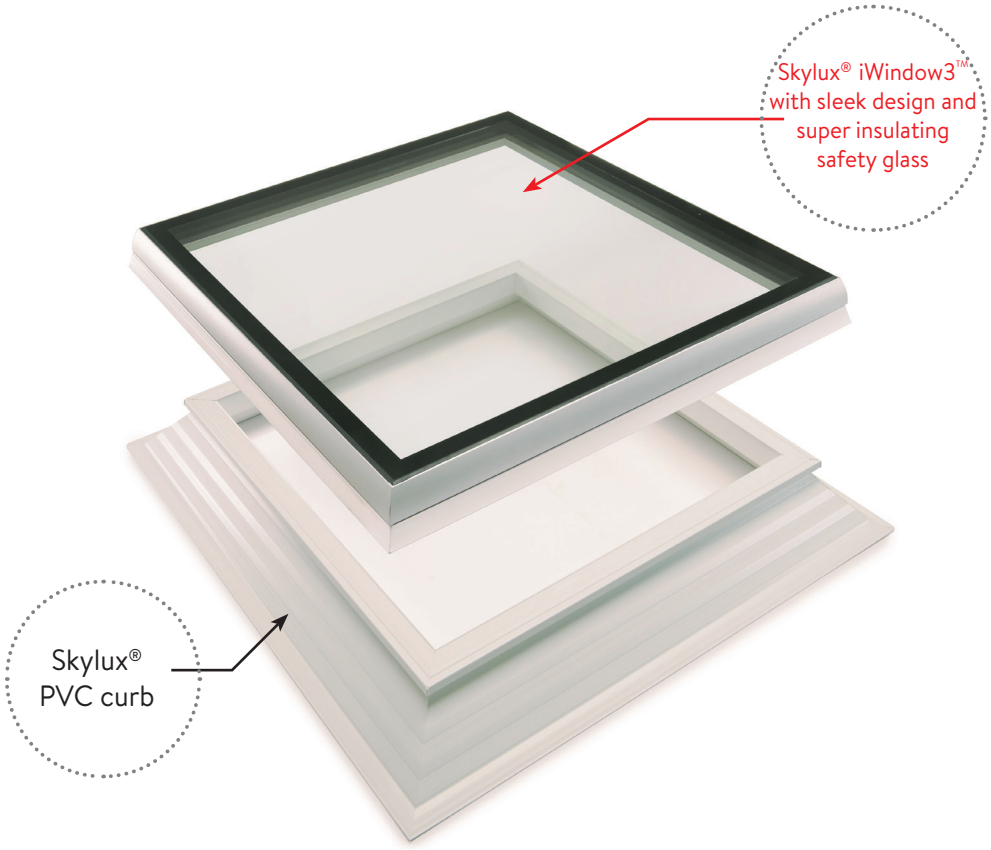
TECHNICAL FILE

Skylux® iWindow2™ & iWindow3™

Glass skylight

SKYLUX®
Hello daylight!

19-08-2021



General product description

The Skylux® iWindow is a super insulating flat glass dome with a sleek design, excellent U values and an optimal light spread for applications in flat roofs. It's composed of a compact and insulating PVC frame with super insulating safety glass (HR++/ HR+++) and a sleek anodised aluminium frame. The glass is tempered and has a ceramic rim to obtain an aesthetic and smooth visual integration into the roof. The fully finished frame can easily be installed on all Skylux® PVC frames (except for the PVC 16/00). It comes in two different executions : Skylux® iWindow2™ and iWindow3™ with respectively double and triple glazing. The Skylux® iWindow can be used in flat roofs with roof inclination between of at **least 4°** to max. 25°. To avoid the glass getting dirty, we recommend a inclination of 5°.

Available models:
* For installation on polyester curbs, with special hinge set (also possible with high PVC frame)
* Openable model with high PVC frame and hinges, for personal opening system

Features

- maximal surface light entrance equal to the daylight size
- exceptional insulation values (up to U_t* = 0,50 W/m²K)
- fits on every Skylux® PVC dome curb
- easy and quick installation with clips for fixed model
- openable model possible : see technical file iWindow openable
- sleek and elegant inside and outside finish
- easy cleaning
- good sound insulation
- good air and water tightness
- large sizes are possible: e.g. 1000x2000 mm and 1000x3000 mm
- options are possible: fixed outer sunblind / electric inner sunblind or blackout blind

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

Specific characteristics: Skylux® iWindow2™ & iWindow3™ PVC frame

Mechanical characteristics	Shock resistant PVC of frame quality type Benvic S white
Density according to ISO 1183	1450 kg/m³
Fire class according to EN 13501-1	E

Specific characteristics: Skylux® iWindow2™ & iWindow3™ glass

	Skylux® iWindow2™	**Skylux® iWindow3™**
Mechanical characteristics	HR++ double glazing	HR+++ triple glazing
Type	layered (inner pane) tempered (outer pane)	layered (inner pane) tempered (outer and middle pane)
Thickness	± 39 mm	± 61 mm
Weight	± 35 à 44 kg/m²	± 55 à 60 kg/m²
Light transmission according to EN 410	66,9 %	68,3 %
Solar factor g (ZTA) according to EN 410	0,42	0,49
Sound insulation Rw according to EN 717-1	39 (-3, -7) dB	41 (-2, -5) dB
U_g value according to EN 673	1,0 W/m²K	0,5 W/m²K
Safety glass NBN EN 356	min. type P2A (44.2) type P4A (44.4) for 1000 x 3000 mm	min. type P2A (44.2)

Specific characteristics: assembled system

	Skylux® iWindow2™	**Skylux® iWindow3™**
Impact resistance according to EN 1873:2014+A1:2016	SB 1200*	SB 1200*
Air tightness according to EN 1873:2014+A1:2016	Ap 1	Ap 1

** Skylux® iWindow meets the highest classification in impact resistance but cannot be used as walkable glass.*

iWindow / Curb	U_{rc} value Skylux® iWindow with curb (W/m²K) iWindow2™	iWindow3™
PVC 16-20 EP	1,06	0,81
PVC 20-00 EP	0,95	0,72
PVC 30-20	1,07	0,88
PVC 35-30	0,99	0,82

U_{rc} = U value of the assembled system (= glass, frame and curb), determined for daylight size 100 x 100 cm, according to EN 1873:2014+A1:2016

Available daylight sizes

	Light incidence (m²)	Daylight (cm) iWindow2	Weight (kg)	Daylight (cm) iWindow3	Weight (kg)
Square	0,36	60 x 60	± 24	60 x 60	± 27
	0,49	70 x 70	± 31	70 x 70	± 35
	0,64	80 x 80	± 38	80 x 80	± 43
	0,81	90 x 90	± 45	90 x 90	± 53
	1,00	100 x 100	± 54	100 x 100	± 74
	1,21	110 x 110	± 63	110 x 110	± 82
	1,44	120 x 120	± 81	120 x 120	± 103
	1,69	130 x 130	± 94	-	
	1,96	140 x 140	± 107	-	
	2,25	150 x 150	± 120	-	
Rectangular	0,28	40 x 70	± 21	40 x 70	± 21
	0,54	60 x 90	± 33	60 x 90	± 38
	0,70	70 x 100	± 40	70 x 100	± 50
	1,04	80 x 130	± 56	80 x 130	± 77
	1,44	80 x 180	± 75	80 x 180	± 104
	1,08	90 x 120	± 57	90 x 120	± 80
	1,30	100 x 130	± 69	100 x 130	± 94
	1,50	100 x 150	± 76	100 x 150	± 117
	2,00	100 x 200	± 109	-	
	3,00	100 x 300*	± 190**	-	

* *Only possible with a 20/00 EP or 16/20 EP curb. For the large sizes 1000x3000 mm, curb and glass skylight are one pre-mounted unit. This unit is always packed on a pallet.*

** *The corresponding pallet weighs about 68 kg.*

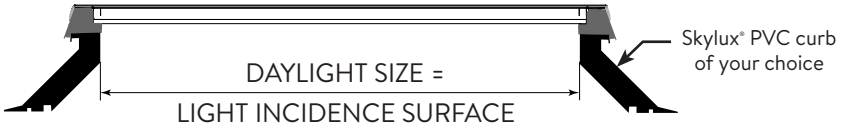
Remark

Depending on the size and weight of the glass skylight, we recommend to use appropriate lifting equipment for transport and installation.
Maintenance: regular cleaning of the flat glass on the outside is necessary to avoid dirt accumulation and water stagnation (flat glass always slightly bends (up to ± 5 mm at 20°C), even when placed at a minimum slope of 4°).
To avoid heat build-up under the transparent skylight (plastic, hybrid, glass) and therefore possible deformation or damage to the PVC curb, frame, skylight dome or electrical components, it is recommended that no closed surface (e.g. black closed attic hatch) is installed under the skylights. A reflective (e.g. white) surface and/or ventilation is recommended.

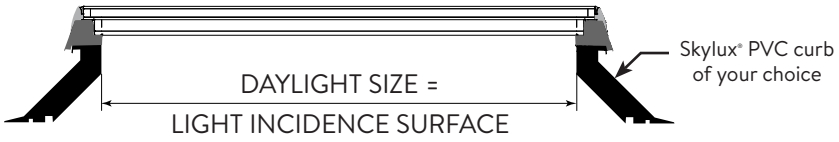
Drawing

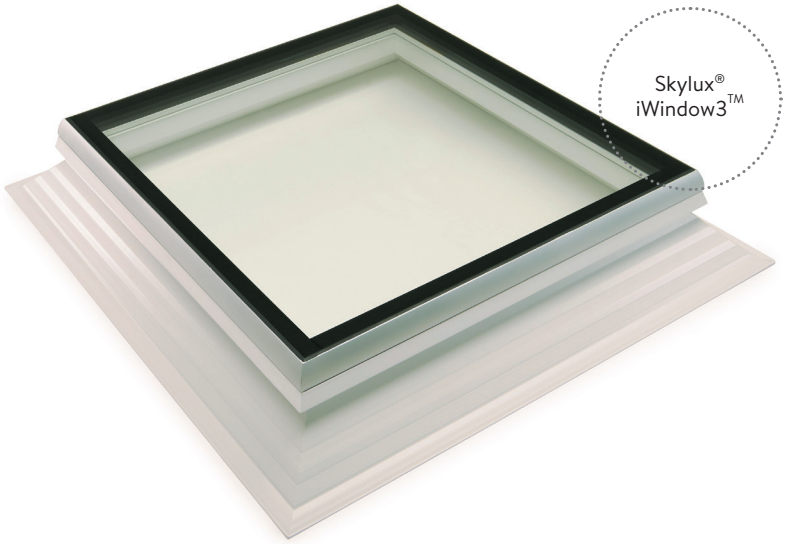
- on Skylux PVC curb of choice:
  (except for the PVC 16/00)

Skylux® iWindow2™



Skylux® iWindow3™



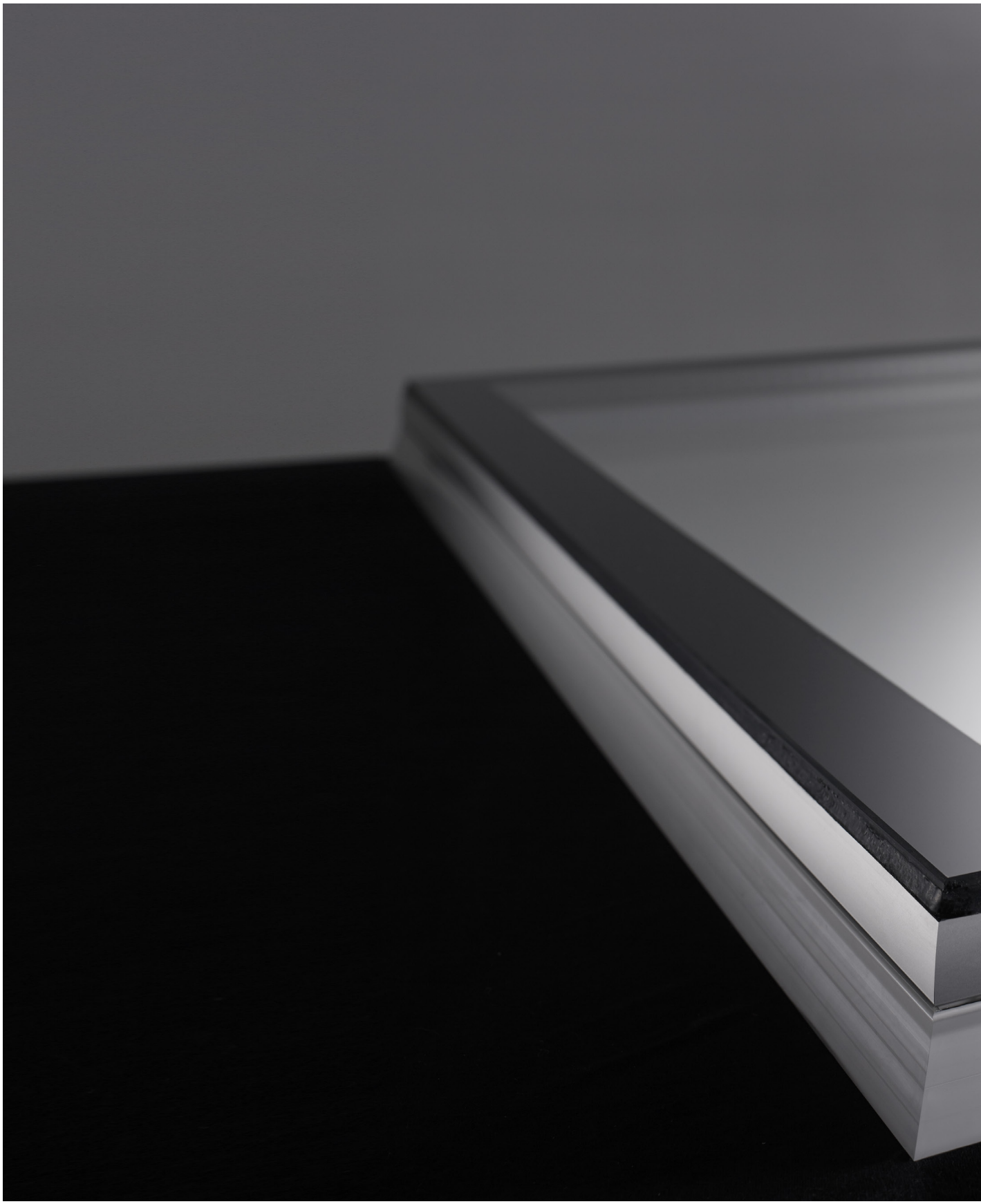




Attestations, certificates and documentation

- certificate fall-through safety
  DIN 18008-6 for Skylux iWindow2
  or iWindow3, in combination with all
  Skylux PVC curbs or all polyester curbs, namely for all dimensions.
  For sizes ≤ 120x120 cm and ≤ 100x300 cm, the residual load-bearing
  capacity after breakage remains valid according to the DIN 18008-6 certificate.
- According to performances of EN 1873:2014+A1:2016, but no CE, as there is no specific
  norm for glass skylight.

BIM-ready files upon skylux.be





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