

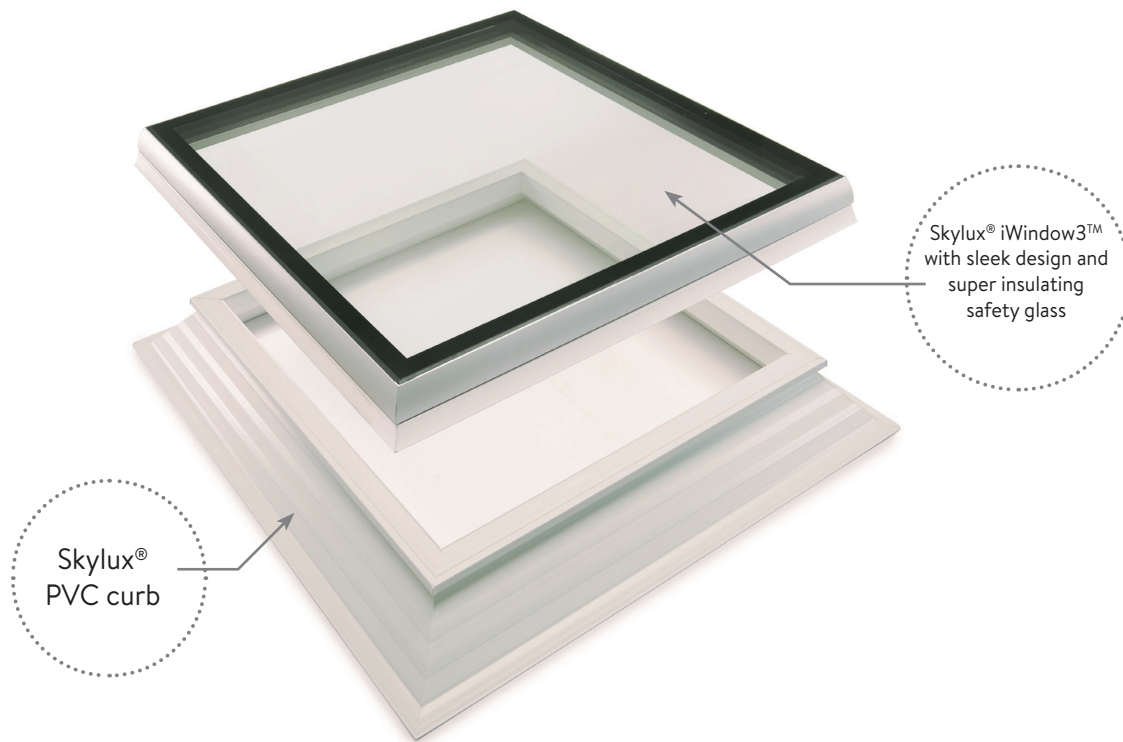


TECHNICAL FILE

# Skylux<sup>®</sup> iWindow2<sup>™</sup> & iWindow3<sup>™</sup>

Glass skylight - fixed model

  
**SKYLUX<sup>®</sup>**  
*Hello daylight!*



## General product description

The Skylux® iWindow is a super insulating flat glass skylight with a sleek design, excellent U values and an optimal light spread for applications in flat roofs. It is composed of a compact and insulating PVC frame with super insulating safety glass (HR++/ HR+++), a sleek anodised aluminium frame. The glass is tempered and has a ceramic black rim to obtain an aesthetic and smooth visual integration into the roof. The fully finished frame can easily be installed on **Skylux® PVC skylight curbs** (except for the PVC 16/00). This skylights is therefore suited for new constructions or complete renovations. It comes in two different versions: Skylux® iWindow2™ and iWindow3™ with respectively double and triple glazing. Next to the standard clear glass, you can also opt for opal or solar control glass.

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 an inclination of 5°.

Available models:

\* For installation on polyester or metal 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  $U_t^* = 0.50 \text{ W/m}^2\text{K}$ )
- fits on every Skylux® PVC skylight 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
- many sizes available; ranging from small to large
- opal glass or solar control glass also possible

\*  $U_t$  = 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/m <sup>3</sup>
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 to 44 kg/m <sup>2</sup>	± 55 to 60 kg/m <sup>2</sup>
Light transmission according to EN 410	clear...opal...solar contr. 75%.....72%.....53%	clear...opal...solar contr. 63%.....61%.....46%
Solar factor g (ZTA) according to EN 410	0.52 ..... 0.50 ..... 0.40	0.42 ..... 0.41 ..... 0.33
Sound insulation Rw according to EN 717-1	39 (-3, -7) dB	41 (-2, -5) dB
U <sub>g</sub> value according to EN 673	1.0 W/m <sup>2</sup> K	0.5 W/m <sup>2</sup> K
Safety glass NBN EN 356	min. type P2A (44.2) type P4A (44.4) for 1000x3000 mm	min. type P2A (44.2)

## Specific characteristics: assembled unit

	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 type / Curb type	U <sub>rc</sub> value Skylux® iWindow with curb (W/m <sup>2</sup> K)	
	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<sub>rc</sub> = 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 surface (m <sup>2</sup> )	Daylight size (cm) iWindow2	Weight (kg)	Daylight size (cm) iWindow3	Weight (kg)
Square 	0.16	40 x 40	12	40 x 40	15
	0.25	50 x 50	16	50 x 50	20
	0.30	55 x 55	18	-	-
	0.36	60 x 60	21	60 x 60	26
	0.49	70 x 70	27	70 x 70	34
	0.56	75 x 75	30	-	-
	0.64	80 x 80	34	80 x 80	42
	0.72	85 x 85	37	-	-
	0.81	90 x 90	41	90 x 90	51
	1.00	100 x 100	49	100 x 100	67
	1.10	105 x 105	53	105 x 105	73
	1.21	110 x 110	58	110 x 110	80
	1.44	120 x 120	76	120 x 120	109
	1.69	130 x 130	88	-	-
	1.96	140 x 140	100	-	-
	2.25	150 x 150	113	-	-
Rectangular 	0.28	40 x 70	18	40 x 70	22
	0.40	40 x 100	24	-	-
	0.52	40 x 130	30	-	-
	0.56	40 x 140	32	-	-
	0.64	40 x 160	36	-	-
	0.76	40 x 190	42	-	-
	0.88	40 x 220	55	-	-
	0.88	40 x 280	69	-	-
	0.47	45 x 105	27	-	-
	0.35	50 x 70	21	-	-
	0.40	50 x 80	23	-	-
	0.50	50 x 100	28	-	-
	0.55	50 x 110	31	-	-
	0.70	50 x 140	38	-	-
	0.85	50 x 170	45	-	-
	1.00	50 x 200	52	-	-
	1.15	50 x 230	67	-	-
	0.48	60 x 80	27	-	-
	0.54	60 x 90	29	60 x 90	37
	0.72	60 x 120	38	-	-
	0.78	60 x 130	41	-	-
	0.90	60 x 150	46	-	-
	1.08	60 x 180	55	-	-
	1.20	60 x 200	68	-	-
	0.70	70 x 100	36	70 x 100	46
	0.91	70 x 130	46	-	-
	1.05	70 x 150	52	-	-
	1.12	70 x 160	55	-	-
	1.40	70 x 200	68	-	-
	1.54	70 x 220	74	-	-
	0.79	75 x 105	40	-	-
	0.94	75 x 125	47	-	-
	1.24	75 x 165	60	-	-
1.31	75 x 175	63	-	-	
1.69	75 x 225	90	-	-	

	Light surface (m <sup>2</sup> )	Daylight size (cm) iWindow2	Weight (kg)	Daylight size (cm) iWindow3	Weight (kg)
Rectangular	0.88	80 x 110	44	-	-
	1.04	80 x 130	51	80 x 130	76
	1.12	80 x 140	55	-	-
	1.28	80 x 160	62	-	-
	1.36	80 x 170	65	-	-
	1.44	80 x 180	69	80 x 180	102
	1.60	80 x 200	85	-	-
	1.76	80 x 220	93	-	-
	1.84	80 x 230	97	-	-
	2.00	80 x 250 *	124 **	-	-
	2.24	80 x 280 *	139 **	-	-
	1.08	90 x 120	53	90 x 120	78
	1.35	90 x 150	64	-	-
	1.62	90 x 180	76	-	-
	1.89	90 x 210	87	-	-
	1.30	100 x 130	62	100 x 130	92
	1.50	100 x 150	70	100 x 150	113
	1.60	100 x 160	84	-	-
	1.80	100 x 180	94	-	-
	2.00	100 x 200	103	-	-
	2.20	100 x 220 *	120 **	-	-
	2.30	100 x 230 *	126 **	-	-
	2.50	100 x 250 *	151 **	-	-
	2.80	100 x 280 *	168 **	-	-
	3.00	100 x 300 *	179 **	-	-
	1.73	105 x 165	90	-	-
	2.36	105 x 225 *	128 **	-	-
	1.54	110 x 140	86	-	-
	1.87	110 x 170	103	-	-
	2.53	110 x 230	136	-	-
	1.68	120 x 140	93	-	-
	1.80	120 x 150	99	-	-
	2.16	120 x 180 *	110 **	-	-
	2.52	120 x 210 *	127 **	-	-
	2.08	130 x 160 *	113 **	-	-

Weight (± 5%) = weight of the product, without packaging

\* Only possible with a 20/00 EP or 16/20 EP curb. For these large sizes, 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

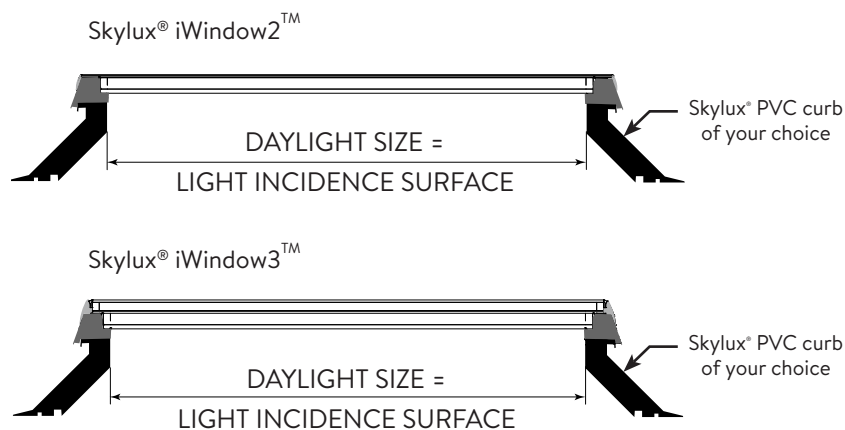
Depending on the size and weight of the glass skylight, we recommend to use appropriate lifting equipment for transport and installation.

Maintenance: it is necessary to clean the flat glass pane regularly on the outside to avoid dirt accumulation and water stagnation (flat glass bends slightly (up to ± 5 mm at 20°C), even when installed with a pitch 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.

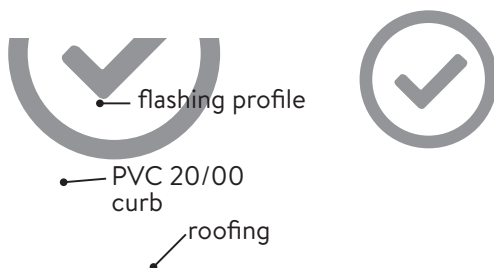
## Technical drawings

- on Skylux PVC curb of choice:  
(except for the PVC 16/00)  
(for installation on other curb types like polyester, metal: on request)



## Drawing PVC curb 20/00 EP with flashing profile

- Curb 20/00 EP with flashing profile to easily pull up the roofing.



## 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  $\leq 120 \times 120$  cm and  $\leq 100 \times 300$  cm, the residual load-bearing  
capacity after breakage remains valid according to the DIN 18008-6 certificate  
(tests were executed on the largest sizes, intermediate dimensions are determined by interpolation).
- According to performances of EN 1873:2014+A1:2016, but no CE, as there is no specific norm for glass skylights.

**BIM-ready  
files on  
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