

# Skylux® iWindow2™ & iWindow3™

Openable glass skylight





### General product description

The Skylux® iWindow **openable (O)** 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's composed of a compact and insulating PVC frame with super insulating safety glass (iWindow2 with double safety glazing HR++/iWindow3 with triple safety glazing 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 finished iWindow2 or iWindow3 as glass dome in **openable (O)** model is premounted on a Skylux PVC curb 20/00 EP (+ 20/00 EP-S). The PVC curb has a built-in detection unit with remote control. Depending on the choice of roofing, the flashing profile and corner profiles can be used to finish the roofing properly up to the 20/00 curb. The openable model (O) has a built-in spindle actuator and is suited for ventilation. Optionally you can also opt for a rain detector.

### Possible options are:

- the built-in LED lights with remote control(L): the LED lights are built-in in the groove underneath the PVC curb 20/00 EP, and are covered by an opal polycarbonate cover profile
- premounted electric inner sunblind with remote control (S): a premounted electric inner sunblind s keeps sunlight and sun warmth outside.
- or an electric and remote controlled blackout blind (V): an optional pre-mounted electric blackout blind on the inside of the curb that blocks the sunlight.
- or an electric an remote controlled insect screen (I): optional pre-mounted electric insect screen on the inside of the curb.

These options must be purchased when ordering the frame.

The built-in detection unit also has open contacts to connect fixed push-buttons, or to allow the functioning upon a domotic system. The Skylux iWindow openable glass skylight is suitable for flat roofs and for gradients between min. 4° and 25°. Installation under 5° is recommended to avoid the glass getting dirty and water stagnation.

### Different types:



(S) electric inner sunblind



(O) openable with spindle actuator



(L) built-in LED lights

	S	Openable pindle actuator (O)	Built-in LED lights (L)		Pre-mounted electric blackout blind (V)	
	_ O	X				
Openable model – (O)	OL	X	X		<del>-</del>	<del>-</del>
	OS	X		X		
	OLS	X	X	X		
	OV	X				
	OLV	X	X		X	
	01	X			<del>-</del>	X

### **Features**

- openable model for fresh air ventilation
- complete rooflight product at any moment of the day
- maximum light spread equal to the daylight size
- built-in LED lights in option(L)
- exceptional insulation values (up to Ug = 0,50 W/m².K)
- good sound insulation
- air and water tight
- easy cleaning
- sleek and elegant inside and outside finish
- premounted set
- burglar proof
- easy in use thanks to the remote control
- optional electric inner sunblind or blackout blind or insect screen
- iWindow has a small thermal waste surface compared to the light spread surface
- large sizes possible: e.g. 1000x2000 mm
- options possible: fixed outer sunblind



# Specific characteristics: Skylux iWindow2 & iWindow3 PVC frame

Mechanical characteristics  Density according to ISO 1183	shock resistant PVC of frame quality type Benvic S white
Fire class according to EN 13501-1	<u> </u>



# Specific characteristics: Skylux iWindow2 & iWindow3 glass

	Skylux iWindow2™	Skylux iWindow3™
Mechanical characteristics Type	3 3	HR+++ triple glazing 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 according to EN 410	0,42	0,49
Sound insulation according to EN 717-1	39 (-3, -7) dB	41 (-2, -5) dB
U <sub>q</sub> value according to EN 673		
Safety glazing NBN EN 356		

### Specific characteristics: Skylux PVC 20/00 EP (+ 20/00 EP-S) curb

PVC of the type Benvic S white over with insulation  Jup*-value 0,61 W/m².K
J <sub>up*</sub> -value 0,61 W/m².K
(insulation EPS separate with $\square = 0.035 \text{ W/m}^2.\text{K}$ )
Thickness: 62 mm (with bottom flange: 95 mm)
Height: 20 cm (20/00 EP) / 40 cm (20/00 EP + 20/00 EP-S)
Finished roof opening=daylight size + (4 cm) (Only with
ouilt-in LED lights )
PVC: 1500 kg/m <sup>3</sup>
(EPS insulation: 28 kg/m³)
E

 $<sup>^*</sup>$   $U_{up}$ : U value (curb) or insulation value of the curb according to EN 1873:2014+A1:2016 and determined with EN 10077-2:2012

### Specific characteristics: Skylux electric inner sunblind (S) optional

	inner sunblind (S)	Blackout blind (V)	Insect screen (I)		
Functioning	24V DC				
Functioning temperature		0°C to +60°C			
Colour inside	White	Light grey	White		
Colour outside	White	Light grey	White		
Sunblind material	100% polyester	polyester with aluminium foil on the inside	100% polyethylene		
Light transmission**	± 30% (Transmitting)	± 0,5% (Transmitting)**	± 90% (Transmitting)		
Туре	multi-layered (honeycomb) pleated fabric	multi-layered (honeycomb) pleated fabric	multi-layered (honeycomb) mesh		

<sup>\*\*</sup> There's always some stray light on the sides of the blackout blind.

# Specific characteristics: Skylux LED lighting (L) optional

Colour warm white ± 3000K LED distance 120 LEDS/m	$0^{\circ}$ C to +60°C	nctioning temperature
5 2400 lumon/5m	20 LEDS/m	O distance
Flux2 2400 lulileti/3111	2400 lumen/5m	x
Durability≥ 40.000 h	40.000 h	rability

### Specific characteristics: assembled system Skylux iWindow on PVC curb 20/00 EP (+ 20/00 EP-S)

	Skylux iWindow2™	Skylux iWindow3™
	20/00EP+ 20/00FP 20/00EP-S	20/00EP+ 20/00EP 20/00EP-S
Urc'''-value (W/m².K)	0,930,84	0,63
Arc <sup>(*)</sup> surface (m²)	3,094,14	2,964,17

<sup>&</sup>quot;" Urc = U value of the set (glass, frame and curb) and is determined for daylight size 120x120 according to EN 1873:2014+A1:2016

(1) Arc = surface of the skylight with curb, determined for daylight size 120x120 according to EN 1873:2014+A1:2016

# Specific characteristics: Skylux integrated spindle actuator (O)

Opening height	± 10 cm	
Tension	24V DC	
Current	3A	
Consumption	85W (of 0,5W in standby)	
Ambient temperature	-20°C to +70°C	
Engine force opening	1000N	
closing	300N	
retention force	1500N	
Durability	10.000 open/close cycles	
Functioning cycle		



### Available daylight sizes:

	Surface light (m²)	Daylight size (cm) iWindow2	Weight (kg)	Daylight size (cm) iWindow3	Weight (kg)	Weight of the pallet (kg)
Square	0,36	60 x 60 <b>↑</b>	± 39	60 x 60 <b>↑</b>	± 42	± 26
	0,49	70 x 70 <b>↑</b>	± 46	70 x 70 <b>↑</b>	± 50	± 27
	0,64	80 x 80 <b>↑</b>	± 54	80 x 80 <b>↑</b>	± 59	± 28
	0,81	90 x 90 <b>↑</b>	± 65	90 x 90 <b>↑</b>	± 72	± 27
	1,00	100 x 100 ↑	± 72	100 x 100 <b>↑</b>	± 92	± 30
	1,21	110 x 110 <b>↑</b>	± 82	110 x 110 ↑	± 101	± 32
	1,44	120 x 120 <b>↑</b>	± 101	120 x 120 <b>↑</b>	± 123	± 34
	1,69	130 x 130 <b>↑</b>	± 114	-	-	± 37
	1,96	140 x 140 <b>↑↑</b>	± 135	-	-	±40
	2,25	150 x 150 <b>↑↑</b>	± 149	-	-	±43
Rectangula	r 0,28	40 x 70 <b>↑</b>	± 33	40 x 70 <b>↑</b>	± 36	± 23
	0,54	60 x 90 <b>↑</b>	± 49	60 x 90 <b>↑</b>	± 54	± 30
	0,70	70 x 100 <b>↑</b>	± 57	70 x 100 <b>↑</b>	± 67	± 33
	1,04	80 x 130 <b>↑</b>	± 74	80 x 130 <b>↑</b>	± 96	±31
	1,44	80 x 180 <b>↑</b>	± 97	80 x 180 <b>↑</b>	± 126	± 33
	1,08	90 x 120 <b>↑</b>	± 77	90 x 120 <b>↑</b>	± 98	± 31
	1,30	100 x 130 <b>↑</b>	± 88	100 x 130 <b>↑</b>	± 113	± 33
	1,50	100 x 150 <b>↑</b>	± 96	100 x 150 <b>↑</b>	± 137	± 35
	2,00	100 x 200 <b>↑</b> ↑	± 128	_	_	± 37

version with 1 spindle actuator, actuator is provided on the long side by default. version with 2 spindle actuators, actuator is provided on the long side by default.

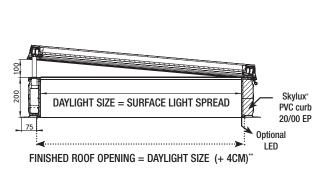
These pre-mounted glass skylights are always packed on a pallet.

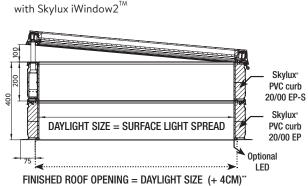
### Remark:

with Skylux  $iWindow2^{TM}$ 

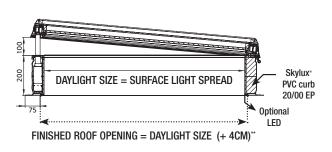
Depending on the size and weight of the glass skylight, we recommend to use appropriate lifting equipment for transport and installation.

# Drawings openable models (O):



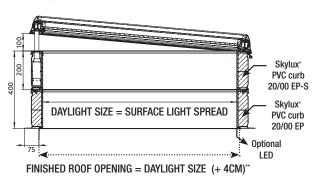


with Skylux iWindow3 $^{\text{TM}}$ 

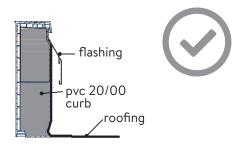


<sup>&</sup>quot;Only with built-in LED lights

### with Skylux iWindow3<sup>TM</sup>



### Drawing: finished 20/00 with flashing profile:



# Attestations, certificates and documentation:

- Fall-through-safety certificate DIN 18008-6 for Skylux iWindow2 or iWindow3, namely for all dimensions For sizes ≤ 120x120 cm and ≤ 100x200 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





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