



TECHNICAL FILE

# Skylux® Window

Hybrid skylight

  
**SKYLUX**  
*Hello daylight!*





## General product description

The Skylux® Window with dome always consists of an insulating PVC frame with burglarproof safety glazing HR++ or a shock resistant 25 mm polycarbonate multi-walled sheet combined with a dome of your choice. The Skylux® Window frame is a finished product and fits all Skylux® dome curbs. A Skylux® dome must always be fixed on the Skylux® Window frame. There is both a fixed and openable model available.

The patented opening system has an in-built motor in the frame. The opening and closing happens with a radio guided remote control which can be fixed on the wall by means of a magnetic holder.

## Specific characteristics: the Skylux Window PVC frame

Mechanical characteristics	Shock resistant PVC of window quality of type Benvic S white	
Density PVC		1500 kg/m <sup>3</sup>
U <sub>e</sub> * value	1,06 W/m <sup>2</sup> K	
Fire class	M1	
E according to EN13501-1 (report 13557C)		

\*U<sub>e</sub>-waarde = U (edge profile) of isolatiewaarde van het raam volgens EN1873:2014+A1:2016 en bepaald met EN 10077-2:2012

## Specific characteristics: glass or 25 mm polycarbonate

	Glass	Polycarbonate
Mechanical characteristics	HR++ SGG Climaplust Ultra N	TopX6 Polycarbonate
Thickness	± 25 mm	± 25 mm
Density	3000 kg/m <sup>3</sup>	3300 kg/m <sup>3</sup>
Light transmission according to EN 410	78%	41% (opal)
Solar factor g (ZTA) according to EN 410	0,58	0,37
Sound insulation Rw according to EN 717-1	35 dB	21 dB
U <sub>g</sub> value according to EN 673	1,1 W/m <sup>2</sup> K	1,5 W/m <sup>2</sup> K
Fire class		B-s1,d0 according to EN 13501

## Specific characteristics: plastic dome

Characteristics..... See technical file of the chosen plastic dome

## Specific characteristics: unit

Light transmission LT..... Glass: 78% of the light transmission of the chosen dome (see technical file plastic dome)  
 Polycarbonate: 41% of the light transmission of the chosen plastic dome (see technical file plastic dome)  
 Solar factor g (ZTA) according to EN 410..... See EPB programme  
 U value W/(m<sup>2</sup>.K)..... See EPB programme  
 Sound insulation Rw..... 40 dB according to EN1873 - ISO10140-2 (glass)

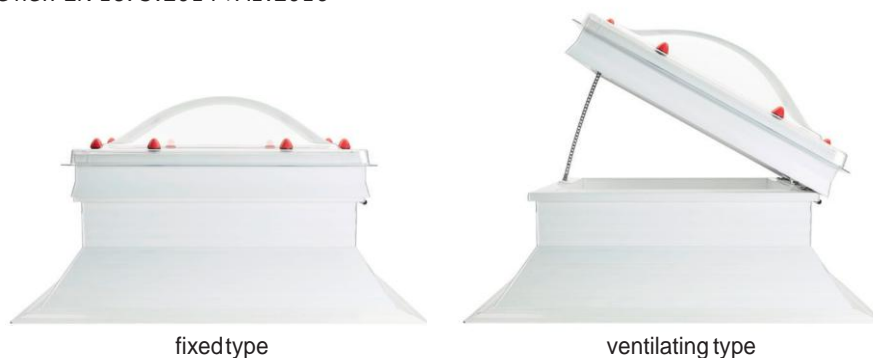
Type of dome	U <sub>t</sub> value (W/m <sup>2</sup> K)					Energy profit EP10mm	Energy profit EP16mm(*)
	single walled	double walled	triple walled	four walled (*)	five walled (*)		
Type of Window with glass	0,93	0,79	0,69	0,61	0,55	0,60	0,50
PC 25 mm EP	1,19	1,01	0,86	0,74	0,66	0,72	0,58

U<sub>t</sub> = U value of the translucent part (= glass and dome), according to the new EN 1873:2014+A1:2016 in accordance to EN 673.

Type of dome	U <sub>rc</sub> value Skylux Window glass with curb (W/m <sup>2</sup> K)					Energy profit EP10mm	Energy profit EP16mm(*)
	single walled	double walled	triple walled	four walled (*)	five walled (*)		
Type of curb							
PVC 16-20 EP	1,07	0,99	0,93	0,88	0,84	0,87	0,81
PVC 16-00	1,12	1,03	0,97	0,91	0,88	0,91	0,84
PVC 20-00 EP	0,94	0,86	0,80	0,76	0,72	0,75	0,69
PVC 30-20	1,09	1,02	0,98	0,94	0,91	0,93	0,89
PVC 35-30	0,98	0,93	0,89	0,86	0,84	0,86	0,82
PO30 EP60	0,72	0,65	0,61	0,58	0,55	0,57	0,53
PO30 EP100	0,63	0,57	0,53	0,50	0,47	0,49	0,45

(\*) only for available sizes (consult the Skylux® price list)

U<sub>rc</sub> = U value of the complete set (= glass/EP25, dome, frame and curb), determined for daylight size 100 x 100 cm, according to the new EN 1873:2014+A1:2016

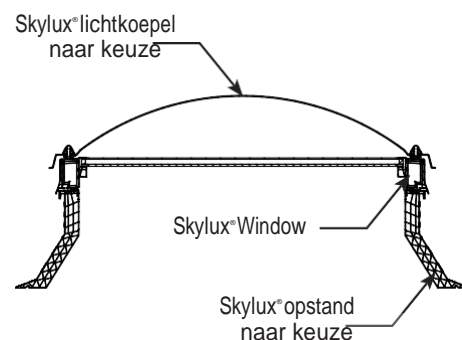


fixed type

ventilating type

## Chain motor opening system

Tension .....	230V - 50Hz
Power.....	25 W (1 motor) / 50 W (2 motors)
Current.....	0,12A (1 motor) / 0,24 A (2 motors)
Safety fuse .....	Max 6 A (connect the system on a circuit protected with an automatic circuit breaker of max 6A)
(automatic circuit breaker)	
Ingress protection.....	IP55 (assembled unit) PCB printed circuit board tropicalised
Max thrust force .....	300N
Max tractive force .....	200N
Speed (unloaded) .....	1 cm/sec
Course.....	Free adjustable until max 24 cm



## Radio guided remote control for opening system

Reach.....	35 m inside, 200 m outside, dependent on the environment (construction materials, electric devices,...)
Sizes	
Transmitter .....	40x40x10 mm (without holder) / 115x50x15 mm (with holder)
Magnetic holder .....	45x45x8 mm
Max number of transmitters .....	30
Battery transmitter .....	Lithium 3VDC, type CR2032
Life span battery .....	Circa 2 years with 10 impulses a day
Protection .....	IP40 (application in a house or protected environment)
Ambient temperature .....	-20 °C to +55 °C
Frequency.....	433,92 MHz (± 100 kHz)
Emitted power .....	Circa 1mW e.r.p.
Coding radio.....	Rolling code 52 bit FLOR

## Remark

To avoid overheating or heat accumulation, it's forbidden to install a sunblind or similar system at the inside.

## Attestations, certificates and documentation

- CE according to EN 1873:2014+A1:2016 & EN 12.101-2
- SKG Rc Class 2 according to EN 1627 NEN 5096
- SB1200J for execution standard glass according to EN1873:2014+A1:2016
- SB3500J for execution SKG (4PA) according to EN1873:2014+A1:2016
- Other attestations on request



EN 1873:2014+A1:2016

**Αποκλειστική διάθεση για την Ελλάδα**



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