

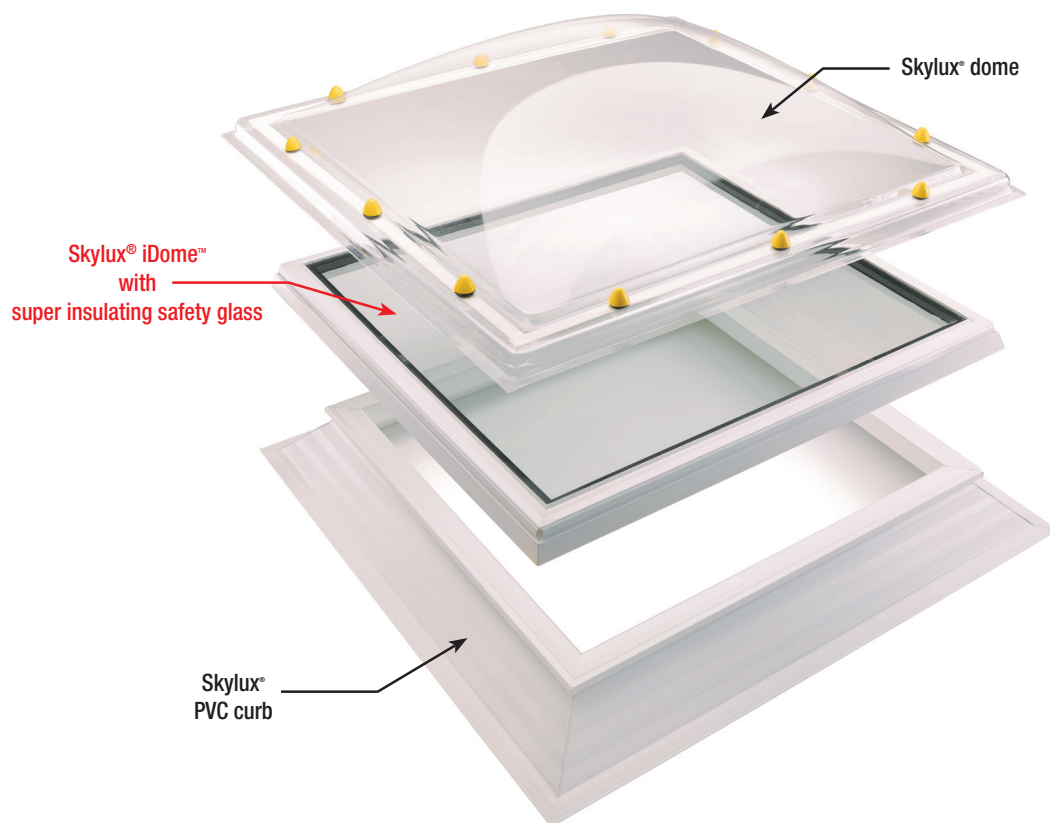


TECHNICAL FILE

Skylux[®] iDome[™]

Hybrid skylight


SKYLUX[®]
Hello daylight!



General product description

The Skylux® iDome™ is composed of a compact and insulating PVC frame where super insulating safety glass HR++ (double glazing laminated glass) is combined with a Skylux® dome of your choice. The Skylux® iDome™ frame is a finished product and fits on every Skylux® dome curb. It can be used in flat roofs with a roof inclination between 0° and 25°.

Advantages

- Maximal surface lightfall equal to the daylight size
- Exceptional insulation values (up to $U_t^* = 0,50 \text{ W/m}^2\text{K}$)
- Can be combined with all Skylux® domes to obtain the perfect U value
- Easy and quick installation with clips for fixed model
- Openable model possible : see technical file iDome complete set
- Fits on every Skylux® dome curb
- Stern and elegant inside finish
- Easy cleaning : on the inside the same as for a glass window and on the outside the self-cleaning effect of the Skylux® dome
- Good sound insulation
- Good air and water tightness
- Burglar resistant

* U_t = U value of the translucent part (= glass and dome), determined according to EN 1873:2014+A1:2016, volgens EN 673

Specific characteristics: Skylux® iDome™ PVC frame

Mechanical characteristics	Shock resistant PVC of frame quality type Benvic S white
Density according to ISO 1183	1450 kg/m ³
Fire class according to EN 13501-1	E

Specific characteristics: Skylux® iDome™ glass

Mechanical characteristics	HR++ (double glazing, tempered and laminated glass)
Thickness	± 28 mm
Weight	± 30 kg/m ²
Light transmission according to EN 410	77,4 %
Solar factor g (ZTA) according to EN 410	0,57
Sound insulation Rw according to EN 717-1	37 (-2, -6) dB
U _g value according to EN 673	1,1 W/m ² K
Safety glass NBN EN 356	min. type P2A (44.2)

Specific characteristics: Skylux® dome

Characteristics	See technical file of the chosen Skylux® dome
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Specific characteristics: assembled system

Light transmission according to EN 410	Glass: 77,4 % of the light transmission of the dome of your choice (see technical file dome)
Solar factor g (ZTA)	in function of the chosen dome
Impact resistance according to EN 1873:2014+A1:2016	SB 1200
Air permeability to EN 1873:2014+A1:2016	Ap 1
Sound insulation Rw according to EN 717-1	38 - 40 dB

Dome	U _t value (W/m ² K)					Energy profit	
	single-walled	double-walled	3-walled	4-walled	5-walled	10 mm	16 mm
U _t value with glass	0,93	0,79	0,69	0,61	0,55	0,60	0,50

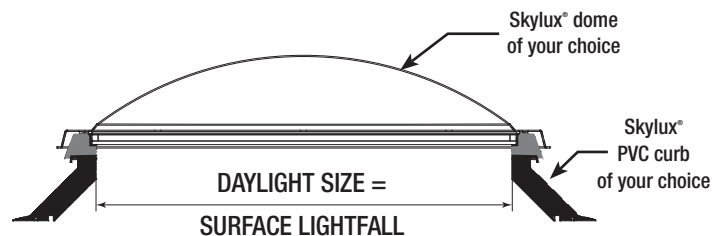
U_t = U value of the translucent part (= glass and dome), determined according to the new EN 1873:2014+A1:2016, in accordance with EN 673

Dome / Curb	U _{rc} value Skylux® iDome™ with dome and curb (W/m ² K)						Energy profit	Energy profit
	single-walled	double-walled	3-walled	4-walled	5-walled	10 mm	16 mm	
PVC 16-20 EP	1,02	0,94	0,88	0,83	0,79	0,82	0,75	
PVC 16-00	1,06	0,99	0,91	0,86	0,82	0,86	0,79	
PVC 20-00 EP	0,88	0,80	0,74	0,70	0,67	0,69	0,64	
PVC 30-20	1,04	0,99	0,94	0,90	0,88	0,90	0,85	
PVC 35-30	0,95	0,90	0,86	0,83	0,81	0,83	0,79	

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

Available daylight sizes

Surf. lightfall (m ²)	Daylight size (cm)
0.36	60 x 60
0.64	80 x 80
0.81	90 x 90
1.00	100 x 100
1.44	120 x 120
1.50	100 x 150



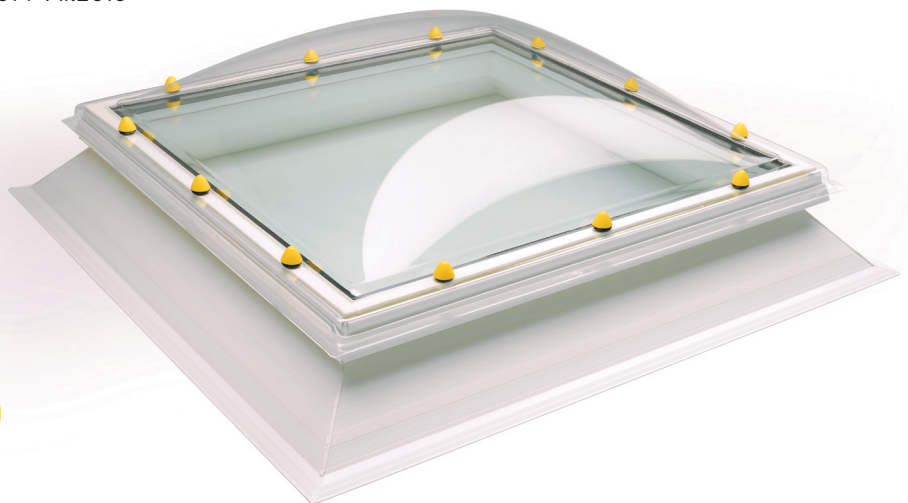
Attestations, certificates and documentation

- CE according to EN 1873:2014+A1:2016
- DoP via www.skylux.be



EN 1873:2014+A1:2016

BIM-ready
files via
skylux.be



SKYLUX IS A REGISTERED BRAND OF AG.PLASTICS
SPINNERIJSTRAAT 100 - B-8530 STASEGEM
T +32 (0)56 20 00 00 - F +32 (0)56 21 95 99
INFO@SKYLUX.BE
WWW.SKYLUX.BE


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