



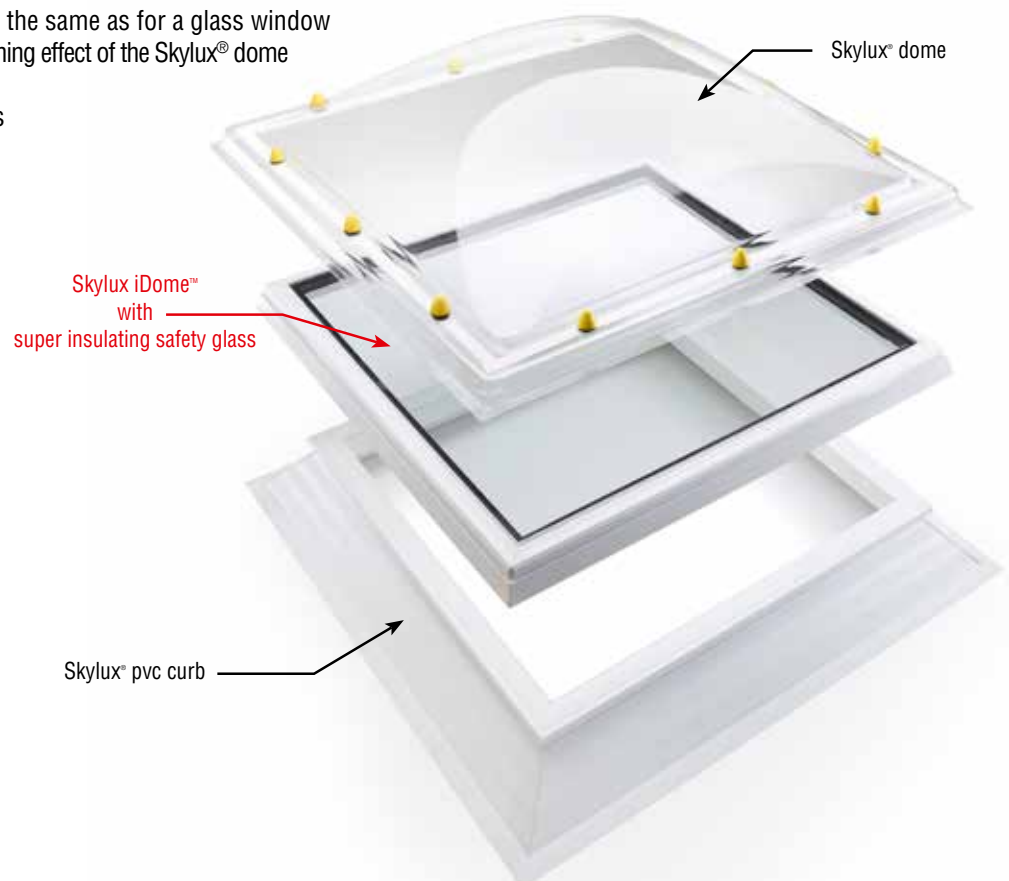
Technical file : Skylux iDome™ with dome

■ 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 $U_t = 0,51 \text{ W/m}^2\text{K}$)
- Can be combined with all Skylux® domes to obtain the perfect U value
- Easy and quick installation with clips
- 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 from the translucent part (= glass and dome), determined according to EN 1873:2014+A1:2016



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■ 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 EN13501-1	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 R _w according to EN 717-1	37 (-2, -6) dB
U _g value according to EN 673	1,1 W/m ² K

■ 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 R _w according to EN 717-1	38 - 40 dB

Dome	U _t -Value (W/m ² K)						Energy profit 10mm	Energy profit 16mm
	single-walled	2-walled	3-walled	4-walled	5-walled			
U _t -Value with glass	0,94	0,82	0,71	0,63	0,57	0,62	0,51	

U_t = U-value from the translucent part (= glass and dome), determined according to EN 1873:2014+A1:2016



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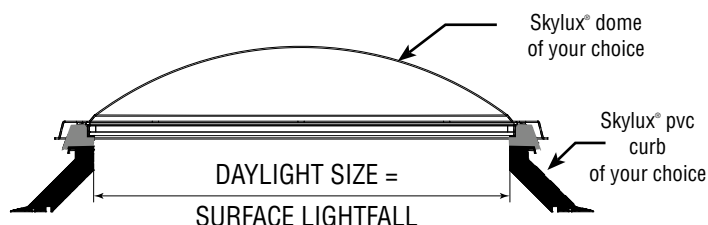
U_{rc}-Value Skylux iDome™ with dome and curb (W/m²K)

Dome / Curb	single-walled	2-walled	3-walled	4-walled	5-walled	Energy profit 10mm	Energy profit 16mm
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 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 EN 1873:2014+A1:2016

■ AVAILABLE DAYLIGHT SIZES:

Surf. lightfall (m²)	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

