SKYLIGHTS



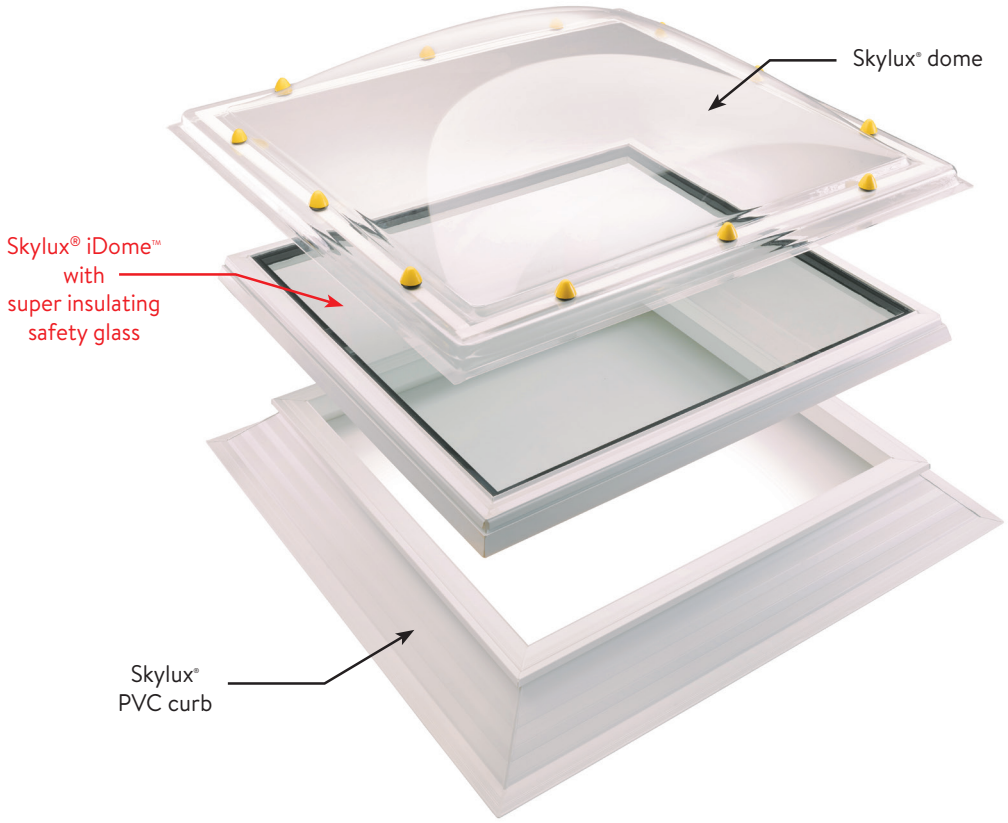
TECHNICAL FILE

Skylux® iDome™

Fixed hybrid skylight

SKYLUX®
Hello daylight!

19-08-2021



General product description

The Skylux® iDome™ is composed of a compact and insulating PVC frame where super insulating safety glass HR++ (double tempered 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 (except for the PVC 16/00). It can be used in flat roofs with a roof inclination between 0° and 25°.

Features

- Maximal surface lightfall equal to the daylight size
- Exceptional insulation values (up to U_t* = 0,50 W/m²K)
- Can be combined with Skylux® PVC curbs
- Easy and quick installation with clips for fixed model
- Openable model possible : see technical file iDome openable
- Fits on every Skylux® dome curb
- Sleek 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
- Possible options: electric inner sunblind or blackout blind

** U_t = U value of the translucent part (= glass and dome), determined according to EN 1873:2014+A1:2016, in accordance with 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/m³
Fire class according to EN 13501-1	E

Specific characteristics: Skylux® iDome™ glass

Mechanical characteristics	HR++ (double glazing, tempered and laminated glass)
Type	layered (inner pane) tempered (outer pane)
Thickness	± 28 mm
Weight	± 30 kg/m²
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/m²K
Safety glass NBN EN 356	min. type P2A (44.2)

(as from 1-03-2021, a new version with tempered layered glass is available for fall-through safety certificate DIN 18008-6)

Specific characteristics: Skylux® dome

Characteristics	See technical file of the chosen Skylux® dome

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
Rain noise according to ISO140-18 L_{IA}	38 dB

	U_t value (W/m²K)					
Dome	**single-walled**	**double-walled**	**3-walled**	**4-walled**	**5-walled**	**Energy profit 10 mm**
U_t value with glass	0,93	0,79	0,69	0,61	0,55	0,60

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

	U_{rc} value Skylux® iDome™ with dome and curb (W/m²K)					
Dome / Curb	**single-walled**	**double-walled**	**3-walled**	**4-walled**	**5-walled**	**Energy profit 10 mm**
PVC 16-20 EP	1,02	0,95	0,90	0,86	0,83	0,86
PVC 20-00 EP	0,92	0,85	0,80	0,76	0,72	0,76
PVC 30-20	1,04	0,99	0,95	0,92	0,89	0,91
PVC 35-30	0,96	0,92	0,88	0,85	0,83	0,85

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

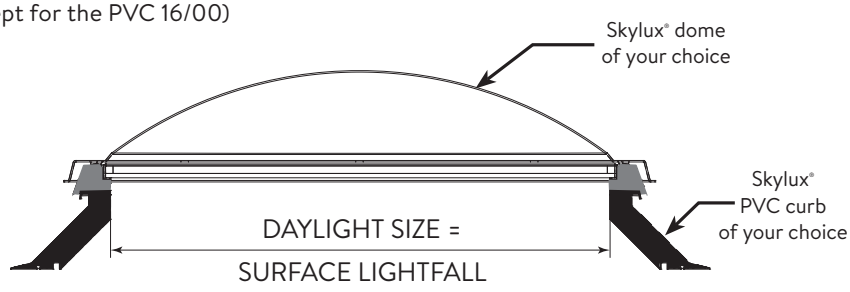
	Light incidence (m²)	**Daylight (cm) iDome**	**Weight kg**
Square	0,36	60 x 60	± 18
□	0,49	70 x 70	± 23
	0,64	80 x 80	± 28
	0,81	90 x 90	± 35
	1,00	100 x 100	± 42
	1,21	110 x 110	± 51
	1,44	120 x 120	± 58
	1,69	130 x 130	± 68
	1,96	140 x 140	± 78
	2,25	150 x 150	± 97
Rectangular	0,28	40 x 70	± 15
▭	0,54	60 x 90	± 26
	0,70	70 x 100	± 31
	1,04	80 x 130	± 44
	1,44	80 x 180	± 60
	1,08	90 x 120	± 45
	1,30	100 x 130	± 54
	1,50	100 x 150	± 60
	2,00	100 x 200	± 80

Please note

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

Drawing

- on Skylux PVC curb of choice:
  (except for the PVC 16/00)



- Available versions:
  * For installation on a polyester curb, including a special hinge set (also possible with high PVC frame)
  * Openable model with high PVC frame and hinges, for your own opening system

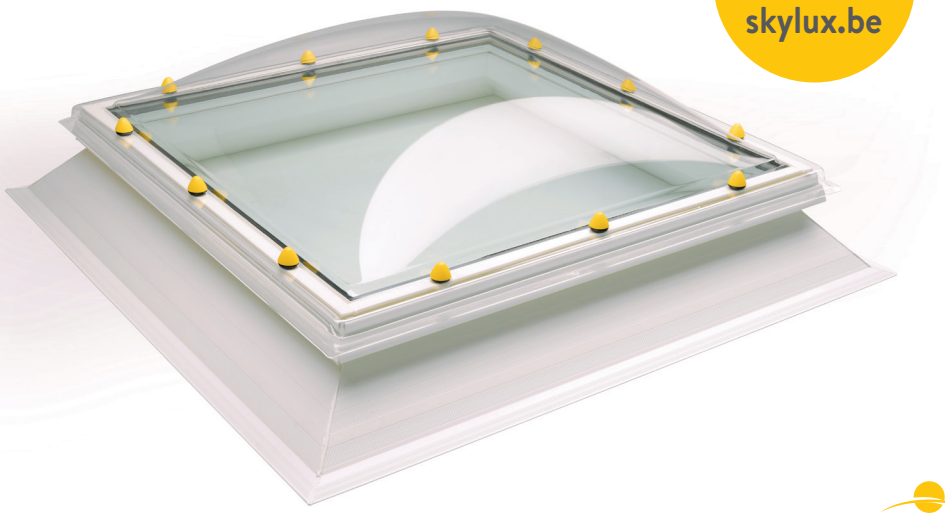
Attestations, certificates and documentation

- Fall-through safety certificate DIN 18008-6 for Skylux iDome with tempered glass, in combination with all Skylux PVC curbs or all polyester curbs. Additionally, residual load-bearing capacity after breakage is also valid for sizes ≤ 120 x 120 cm and ≤ 100 x 200 cm, according to the DIN 18008-6 certificate.
- Certificate GS BAU 18 for Skylux iDome with polycarbonate or Heatstop dome in combination with all Skylux PVC curbs or all polyester curbs.
- CE according to EN 1873:2014+A1:2016
- DoP via www.skylux.be
- Certificate - DGUV Test

CE

EN 1873:2014+A1:2016

BIM-ready files via skylux.be







SKYLUX NV
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

