

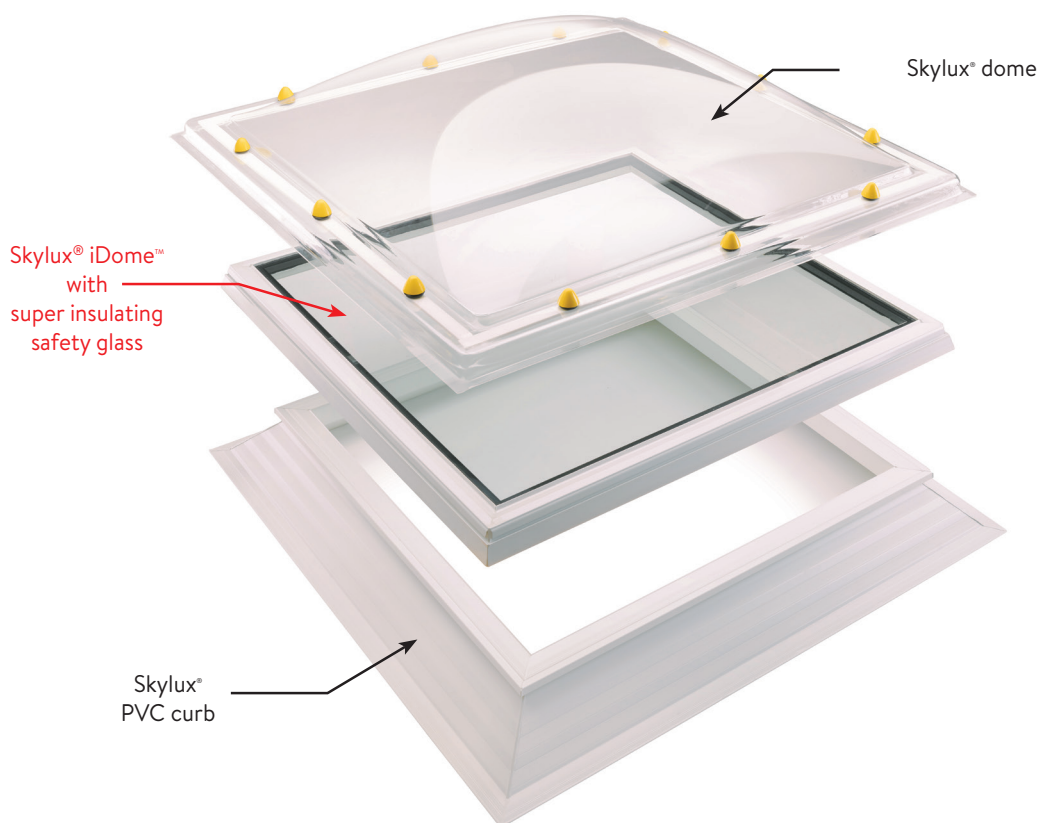


TECHNICAL FILE

Skylux[®] iDome[™]

Fixed 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 tempered glass) is combined with a Skylux® dome of your choice. The Skylux® iDome™ frame is a finished product and fits on every **Skylux® PVC curb** (except for the PVC 16/00). This hybrid skylight is therefore suited for new constructions or complete renovations.

The Skylux® iDome™ is used in flat roofs with a roof pitch between 0° and 25°.

Features

- maximum light surface equal to the daylight size
- exceptional insulation values (up to $U_t^* = 0.50 \text{ W/m}^2\text{K}$)
- can be combined with Skylux® PVC curbs
- easy and quick installation with clips for fixed model
- openable model possible : see technical file iDome openable
- sleek and elegant inside and outside finish
- easy cleaning
- good sound insulation
- good air and water tightness
- burglar-proof
- possible options: electric inner sunblind or blackout blind
- many sizes available; ranging from small to large

* 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/m ³
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/m ²
Light transmission according to EN 410	75 %
Solar factor g (ZTA) according to EN 410	0.53
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: 75 % 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 _{1A}	38 dB



Dome type	U _t value (W/m ² K)					Energy profit 10 mm
	single-walled	double-walled	triple-walled	4-walled	5-walled	
U _t value with glass	0.93	0.79	0.69	0.61	0.55	0.60


U_t = U-waarde van het translucente deel (= glas en koepel), bepaald volgens nieuwe EN 1873:2014+A1:2016, volgens EN 673

Dome type / Curb type	U _{rc} value Skylux® iDome™ with dome and curb (W/m ² K)					Energy profit 10 mm
	single-walled	double-walled	triple-walled	4-walled	5-walled	
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 surface (m ²)	Daylight size (cm) iDome	Weight kg
Square 	0.16	40 x 40	8
	0.25	50 x 50	12
	0.30	55 x 55	14
	0.36	60 x 60	16
	0.49	70 x 70	21
	0.56	75 x 75	23
	0.64	80 x 80	26
	0.72	85 x 85	29
	0.81	90 x 90	32
	1.00	100 x 100	39
	1.10	105 x 105	42
	1.21	110 x 110	46
	1.44	120 x 120	54
Rectangular 	0.28	40 x 70	13
	0.40	40 x 100	18
	0.52	40 x 130	23
	0.56	40 x 140	25
	0.64	40 x 160	28
	0.76	40 x 190	33
	0.88	40 x 220	38
	1.12	40 x 280	48
	0.47	45 x 105	21
	0.35	50 x 70	16
	0.40	50 x 80	18
	0.50	50 x 100	21
	0.55	50 x 110	24
0.70	50 x 140	29	
0.85	50 x 170	35	

	Light surface (m ²)	Daylight size (cm) iDome	Weight kg
Rectangular 	1.00	50 x 200	41
	1.15	50 x 230	47
	0.48	60 x 80	21
	0.54	60 x 90	23
	0.72	60 x 120	30
	0.78	60 x 130	32
	0.90	60 x 150	36
	1.08	60 x 180	43
	1.20	60 x 200	48
	0.70	70 x 100	28
	0.91	70 x 130	36
	1.05	70 x 150	41
	1.12	70 x 160	44
	1.40	70 x 200	54
	1.54	70 x 220	59
	0.79	75 x 105	31
	0.94	75 x 125	37
	1.24	75 x 165	48
	1.31	75 x 175	50
	1.69	75 x 225	64
	0.88	80 x 110	35
	1.04	80 x 130	41
	1.12	80 x 140	43
	1.28	80 x 160	49
	1.36	80 x 170	52
	1.44	80 x 180	55
	1.60	80 x 200	61
	1.76	80 x 220	66
	1.84	80 x 230	69
	2.00	80 x 250 *	82 **
	2.24	80 x 280 *	92 **
	1.08	90 x 120	42
	1.35	90 x 150	51
	1.62	90 x 180	61
	1.89	90 x 210	70
	1.30	100 x 130	49
1.50	100 x 150	56	
1.60	100 x 160	60	
1.80	100 x 180	67	
2.00	100 x 200	74	
2.20	100 x 220*	88 **	
2.30	100 x 230*	92 **	
2.50	100 x 250*	100**	
2.80	100 x 280*	112**	
3.00	100 x 300*	119**	
1.73	105 x 165	64	
2.36	105 x 225*	86 **	
1.54	110 x 140	58	
1.87	110 x 170	75	
2.53	110 x 230*	101**	
1.68	120 x 140	62	
1.80	120 x 150	66	
2.16	120 x 180*	79 **	
2.52	120 x 210*	113**	
2.08	130 x 160*	76 **	

weight (± 5%) = weight of the product, without packaging

* Only possible with a 20/00 EP or 16/20 EP curb. For the large sizes 1000x3000 mm, curb and glass skylight are one pre-mounted unit. This unit is always packed on a pallet.

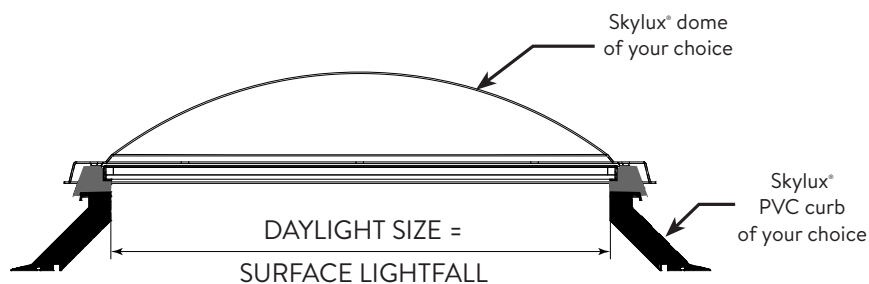
** The corresponding pallet weighs about 68 kg

Please note

Depending on the size and weight of the glass skylight, we recommend to use 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.

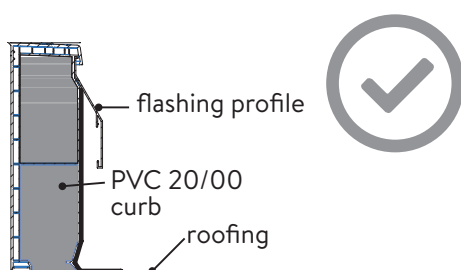
Technical drawings

- on Skylux PVC curb of choice:
(except for the PVC 16/00)
(for installation on other curb types like polyester, metal: on request)



- 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

Drawing finished 20/00 EP with flashing profile



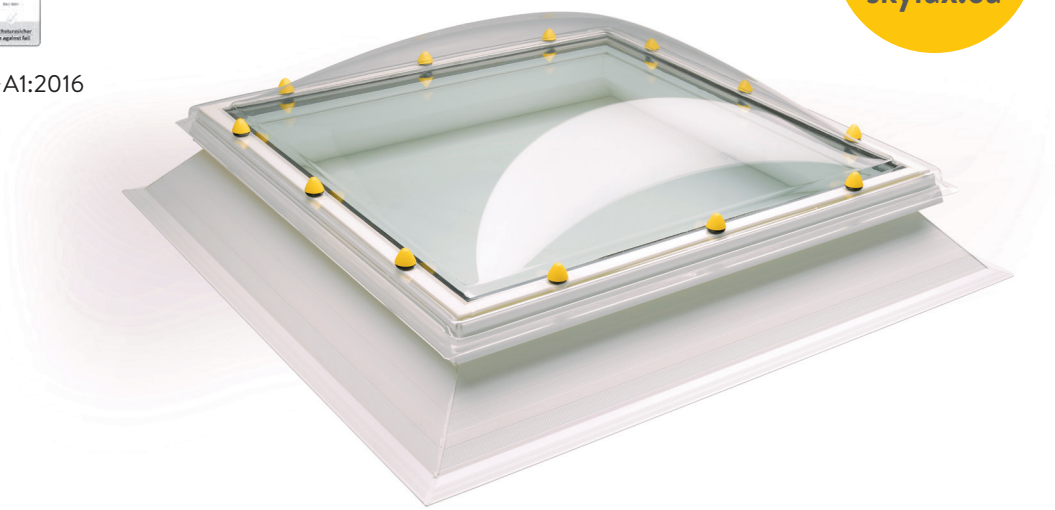
Attestations, certificates and documentation

- 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 $\leq 120 \times 120$ cm and $\leq 100 \times 300$ cm, according to the DIN 18008-6 certificate (tests were executed on the largest sizes, intermediate dimensions are determined by interpolation).
- 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.eu
- Certificate - DGUV Test



EN 1873:2014+A1:2016

**BIM-ready
files on
skylux.eu**



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