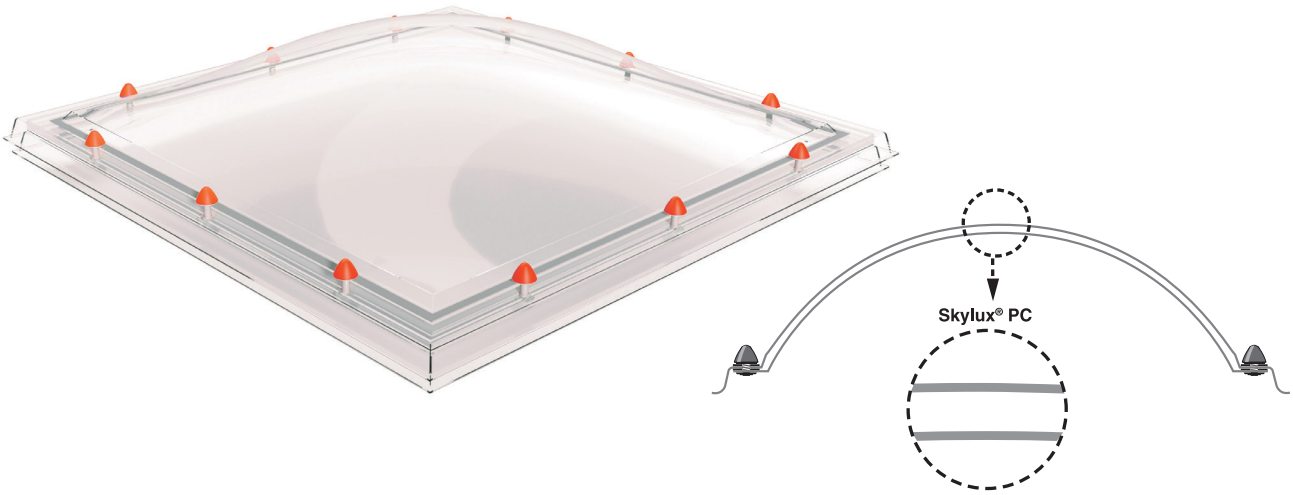
TECHNICAL FILE

Skylux® PC

Polycarbonate dome sheets

SKYLUX
Hello daylight!

07-06-2022



General product description

The Skylux® dome consists of extruded polycarbonate plastic sheets. They can be single walled, double walled, triple walled, four walled and five walled. On the mounting of the dome, different types of sheets can be combined.
The Skylux polycarbonate dome has the CE label according to EN 1873:2014+A1:2016.

Specific characteristics

Mechanical characteristics	Impact resistance : 250 times stronger than glass of equal thickness. No damage on shocks similar to an impact of a steel ball of 250 gr falling from a height of 1 m. (hard body impact test according to EN 1873:2014+A1:2016). SB 1200 (soft body impact test according to NBN EN 1873:2014+A1:2016).
Dimensions	Sheet thickness: fluctuate between 3 and 5 mm (according to sheet dimensions) Sheet dimensions: list of dimensions on request
Density	1200 kg/m³

Specific characteristics in function of the execution

	Single walled		Double walled				Triple walled		4-walled		5-walled	
Color	A	D	AA	AD	AH	AO	AHH	AOO	AHHH	AHOH	AHHHH	AHOHH
U_t-value*	5,17	5,17	2,90	2,90	2,90	2,90	1,70	1,70	1,28	1,28	0,99	0,99
sound insulation Rw (dB) according to EN ISO 140-3	12	12	20	20	20	20	22	22	23	23	24	24
light transmission LT according to EN 410 (or EN ISO 13468 for single walled domes)	88%	58%	77%	51%	79%	73%	71%	61%	64%	59%	58%	53%
Solar heat factor g according to EN 410	83%	60%	69%	50%	72%	63%	63%	48%	52%	46%	47%	41%

A Clear shell polycarbonate
D Opal shell polycarbonate
H Clear shell acrylic
O Opal shell acrylic

The reflection of the visible light can be calculated as 100 -LT (%)
The reflection of the total solar energy can be calculated as 100 -g (%)

** U_t: U (transparent) value or insulation value of the Skylux dome according to EN 1873:2014+A1:2016 determined according to EN673 or for triple walled skylights according to the test method EN ISO 12567-2.*

Attestations and certificates

- CE according to EN 1873:2014+A1:2016
- Declaration of Performance DoP n° 002DoP2013-05
- 1200 Joule certificate Cebtp D313.9.823.1/2 and SB 1200 (EN 1873:2014+A1:2016)
- Acoustic insulation Rw determined according to EN ISO 140-3 (rapport P902622-B)

Fire report

- acrylic sheet E (EN 13501-1)
- polycarbonate sheet M2 (NF P.92.507)
- polycarbonate sheet Class 1Y (BS 476)
- polycarbonate sheet B, s1-d0 (EN 13501-1)

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