SKYLIGHTS



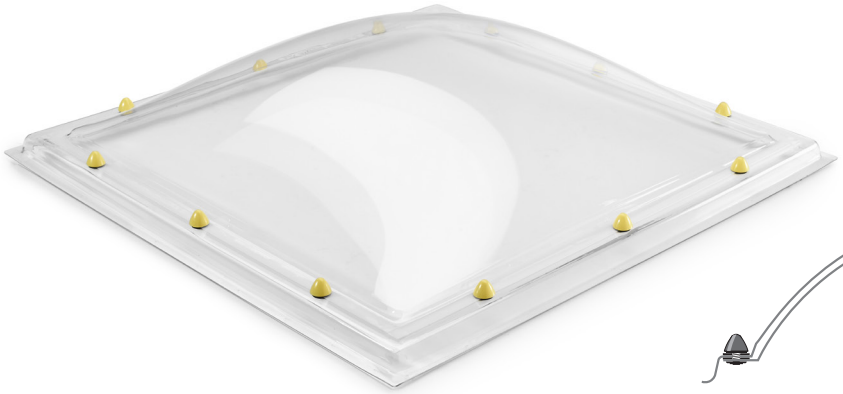
TECHNICAL FILE

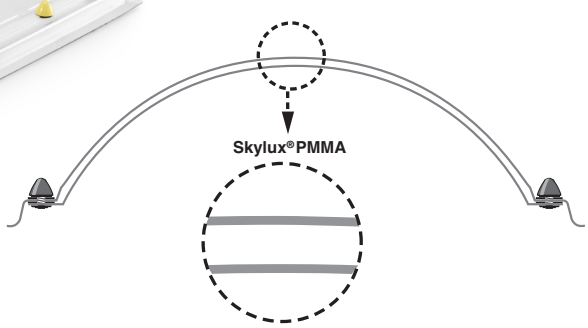
Skylux® PMMA

Acrylic dome sheets

SKYLUX
Hello daylight!

01-06-2021





General product description

The Skylux® dome sheets consist of extruded polymetylmetacrylic plastic sheets. They can be single walled, double walled, triple walled and four walled. On assembly of the dome, different types of sheets can be combined. The resistance of acrylic is 10 times higher than glass of a similar thickness.
The Skylux® acrylic dome has the CE label according to EN 1873:2014+A1:2016.

Specific characteristics

Dimensions	Sheet thickness: fluctuate between 2 and 5 mm (according to the sheet dimensions) Sheet dimensions : list of dimensions on request
Density	1180 kg/m³

Specific characteristics according to the model

	Single walled		Double walled		Triple walled		Four walled		Five walled	
Color	H	O	HH	OO	HHH	OHO	HHHH	HHOA	HHHHH	OHHHH
U_t-value*	5,17	5,17	2,90	2,90	1,70	1,70	1,28	1,28	0,99	0,99
Sound insulation (dB) according to EN ISO 140-3	12	12	20	20	22	22	23	23	24	24
Light transmission LT according to EN 410 (or EN ISO 13468 for single walled skylights)	90%	83%	81%	69%	73%	62%	64%	59%	58%	53%
Solar heat gain factor g according to EN 410	87%	76%	75%	58%	65%	51%	54%	48%	47%	41%

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

** U_t: U (transparent)-value for single and double walled skylights according to the calculation method EN 1873:2014+A1:2016 determined in accordance with EN 673 or for triple walled skylights according to the test method EN ISO 12567-2.*

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 (%)

Attestations and certificates

- CE according to EN 1873:2014+A1:2016
- Declaration of performance DoP nr 001DoP2013-05
- Light transmission according to EN ISO 13468
- dB values according to EN ISO 140-3
  (report P902622-B)

Fire reports

- Acrylic shell E (EN13501-1)
- Acrylic shell B 2 (DIN 4102-1)
- Acrylic shell Class 4 (NEN 6065 + 6066)

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