

Technical file

Skylux® - acrylic dome sheets

General product description:

The Skylux dome sheets consist of extruded polymethylmetacrylic plastic sheets. They can be single walled, double walled and triple walled. On assembly of the dome, different types of sheets can be combined. The Skylux acrylic dome has the CE label according to EN 1873.

Specific characteristics:

Mechanical characteristics	Impact resistance: 10 times stronger than glass of equal thickness.
Dimensions	Sheet thickness: fluctuate between 2 and 5 mm (according to the sheet dimensions) Sheet dimensions : list of dimensions on request
Density	1180 kg/m ³

U-value (W/m²K), sound insulation (dB), light transmission (LT %) and solar heat gain factor (g %) :

COLOR	SINGLE WALLED		DOUBLE WALLED				TRIPLE WALLED	
	H	O	HH	OO	OH*	HO*	HHH	OHO
U -value	5,36	5,36	2,68	2,68	2,68	2,68	1,70	1,70
dB	12	12	20	20	20	20	22	22
LT	92%	83%	85%	69%	76%	76%	78%	63%
g-value	87%	76%	75%	58%	66%	66%	65%	51%

H = Clear sheet

O = Opal sheet

* = non standard execution

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 values for single and double walled skylights according to the calculation method EN ISO 6946: 1997

U values for triple walled skylights according to the test method EN ISO 12567-2

dB values according to EN ISO 140-3 (report P902622-B)

Attestations and certificates:

- CE according to EN 1873
- Fire report E (DIN EN13501-1)
B 2 (DIN 4102-1)
Class 4 (NEN 6065 + 6066)