



TECHNICAL FILE

# Skylux<sup>®</sup> EP16 PC

Polycarbonate skylight





## General product description

The Skylux® EP16 skylight consists standard of four plastic shells. A clear solid polycarbonate outer shell, a clear 16 mm structured polycarbonate middle sheet, a diffused solid acrylic middle wall and a clear solid polycarbonate inner shell.

Due to its unique combination of solid and structured sheets an exceptional U-value is obtained. The Skylux® EP16 polycarbonate skylight is finished and must be installed as any other standard Skylux® skylight and fits any Skylux® curb.

The Skylux® EP16 polycarbonate is burglar proof and does not drip in case of fire.

The Skylux® EP16 polycarbonate skylight has the CE label according to EN 1873:2014+A1:2016.

## Specific characteristics

Mechanical characteristics Polycarbonate (SPC16)	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 EN1873:2014+A1:2016) SB 1200 (soft body impact test according to EN1873:2014+A1:2016)
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U-value ( $W/m^2K$ ), sound insulation (dB), light transmission (LT %) and solar heat gain factor (g %) in function of the type of skylight.

	EP16 PC
Colour	AUOA
$U_t$ value* according to EN 673	0,87 $W/m^2K$
Sound insulation $R_w$ according to EN ISO 140-3	22 dB
Light transmission LT according to EN 410	39%
Solar factor g (ZTA) according to EN 410	0,32 (32%)

- A clear shell polycarbonate
- U polycarbonate sheet 16 mm (6-walled)
- 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 skylight according to EN1873:2014+A1:2016 determined according to EN 673

## Attestations and certificates

- CE according to EN1873:2014+A1:2016
- Declaration of Performance DoP n° 002DoP2013-05
- 1200 Joule certificate Cebtp D313.9.823.1/2 and SB 1200 (EN 1873)
- Sound insulation values Rw according to EN ISO 140-3 (report P902622-B)

## Fire reports

- Acrylic shell E (EN 13501-1)
- Polycarbonate shell M2 (NF P. 92.507)
- Polycarbonate shell Class 1Y (BS 476)
- Polycarbonate shell B, s1-d0

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