

# CUBIGREC LUX

## POLYCARBONATE SKYLIGHT FOR CUBIGREC ROOFS

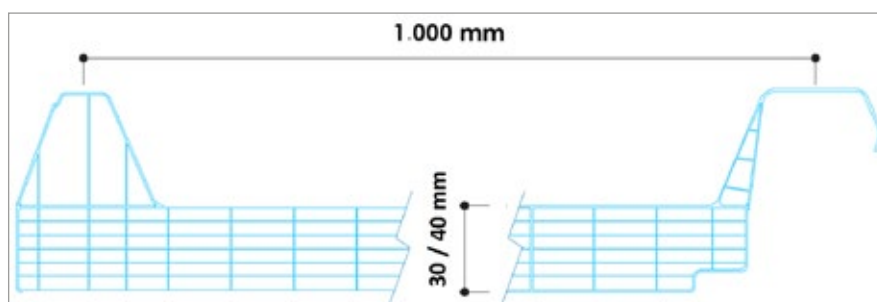
### ASSEMBLY

#### Product

Modular skylight made of cellular polycarbonate, with high UV protection, high durability and high thermal and mechanical properties. Supplied in customised units and lengths on request.

#### Applications

Natural lighting from ridge to gutter of insulated roofs made with the Cubigrec panel for industrial, residential, commercial and sports facilities.



### TECHNICAL SPECIFICATIONS

|                                     |   |
|-------------------------------------|---|
| Color                               | White opal  |
| Thickness                           | 30 mm   40 mm                                     |
| Useful plate width                  | 1,000 mm  |
| Panel length                        | Made to measure                                   |
| Light transmission                  | 39%   |
| Thermal insulation                  | 1,22 W/m <sup>2</sup> K   1,06 W/m <sup>2</sup> K |
| Sound insulation                    | 22 dB   23 dB                                     |
| Coef. linear expansion              | 0,065 mm/m°C                                      |
| Reaction to fire                    | Euroclase B-s1,d0 (EN 13501-1)                    |
| UV protection                       | Outer face coating                                |
| Operating temperature               | -30°C a 120°C                                     |
| Max. distance between supports      | 2,000 mm  |
| Solar energy transmission (G-value) | 45%   |
| CE marking                          | EN 16153:2013 + A1: 2015                          |

### LOAD TABLE (UNIFORMLY DISTRIBUTED LOAD)

| Spacing between<br>3 or more<br>supports [mm] | Pressure<br>[kN/m <sup>2</sup> ] | Suction<br>[kN/m <sup>2</sup> ] |
|---|----------------------------------|---------------------------------|
| 1,500   | 1,86   1,27                      | 1,27   1,18                     |
| 1,750   | 1,57   1,08                      | 1,18   1,03                     |
| 2,000   | 1,27   0,98                      | 1,08   0,88                     |

#### NOTES:

- Maximum load values, with a Serviceability Limit State of Deflection limitation of L/50 for pressure loads, and system ultimate load values for suction loads.

- The designer shall verify the effective loads acting on the system, as well as the safety coefficients to be applied taking into account the characteristics of the site and the structure in which the polycarbonate panel will be integrated.

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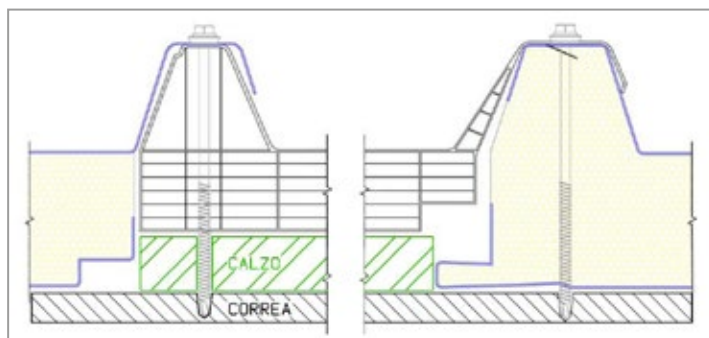


## INSTALLATION

### Prior to installation

The Cubigrec Lux rooflight must be installed from ridge to gutter with a **minimum slope of 7%**. The maximum distance between purlins is **2.0 m**. Do not walk over the rooflight.

If the Cubigrec Roc sandwich panel is thicker than the Cubigrec Lux rooflight, the difference in thickness must be compensated by a shim in the purlin.



If the Cubigrec Roc panel is installed before the Cubigrec Lux skylight, leaving a gap between the Cubigrec Roc panels that will be sandwiched with the skylight, it is recommended to use a sample of Cubigrec Lux to adjust the gap.

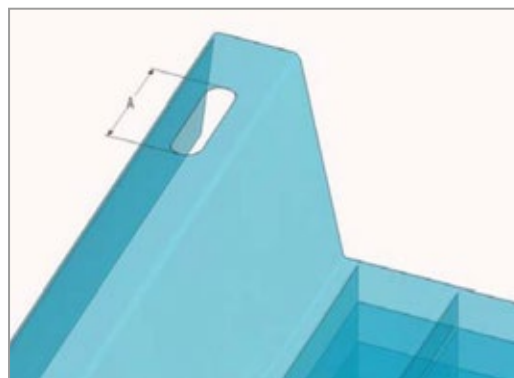
It is recommended to place an **EPDM gasket** in the area of the purlins where the skylight is supported in order to avoid scratching the underside of the skylight.

It is not recommended to cut the panel once on site, but if necessary, use circular saws (with small tooth blades), power saws or metal saws. Always clamp the panel to avoid vibrations. Immediately remove any shavings from the board or panel. Protect the ends of the skylight with an adhesive seal to prevent dirt from entering the cells.

### During the installation

To fix the Cubigrec Lux rooflight, it is necessary to drill **oval holes** in the upper part of the flanges and the ribs according to the following dimensions:

| L = length of the plate<br>[mm] | A = long. oval<br>[mm]           |
|---------------------------------|----------------------------------|
| $L \leq 2,000$                  | 10                               |
| $2,000 < L \leq 4,000$          | 14                               |
| $4,000 < L \leq 6,000$          | 18                               |
| $> 6,000$                       | $18 + 2.6 \text{ mm/m of plate}$ |



Positioning a **silicone bead**, (preferably special for polycarbonate) on the upper part of the skylight fretwork and on the fretwork of the Cubigrec Roc panel and placing the plate between the two Cubigrec sandwich panels, which will guarantee leak-tightness.

Screw the skylight through the oval made together with the sandwich panel and the purlin. Use self-drilling screws with EPDM washer (Teczone does not supply fixings).

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