XT LUX

Polycarbonate skylight for HI-XT roofs

DATA SHEET

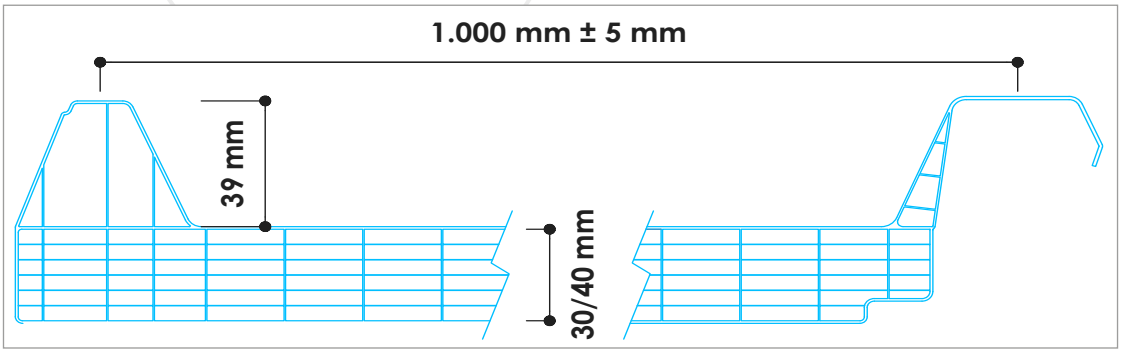
Description and applications

Product

Modular skylight made of cellular polycarbonate, with excellent protection against UV light, very long-lasting and elevated thermal and mechanical properties. They are supplied in made-to-measure lengths on order.

Applications

Ridge-to-channel natural lighting of insulated roofs executed using HI-XT panels for industrial, residential, commercial and sports facilities building.



Technical specifications

Color	Opal white
Thickness	30 mm | 40 mm
Useful plate width	1,000 ± 5 mm
Panel length	made to measure
Light transmission	39 %
Thermal insulation	1.05 W/m²K
Acoustic insulation	21 dB
Linear expansion coefficient	0,065 mm/m°C
Reaction to fire	Euroclass B-s1,d0 (UNE-EN 13501-1)
UV protection	Outer face co-extrusion
Range of service temperatures	-30° to + 120°C
Maximum distance between supports	2,000 mm
Solar Energy Transmission (G value)	45% (30 mm) | 42 % (40 mm)

Usage table (Uniform distributed load)

Span between 3 or more supports [mm]	Pressure [kN/m²]	Suction [kN/m²]
1.000	2,84	2,06
1.250	2,55	1,81
1.500	2,25	1,67
1.750	1,96	1,57
2.000	1,67	1,47
2.250	1,18	1,47
2.500	0,98	1,18

Notes:

- Maximum load values, with a limitation of the Service Limit State of deformations of L/50 for pressure loads, and system failure load values for suction loads.
- The designer must verify the actual loads that will be applied on the system, as well as the safety coefficients that must be taken into account, considering the characteristics of the location and the structure in which the polycarbonate panel will be integrated.

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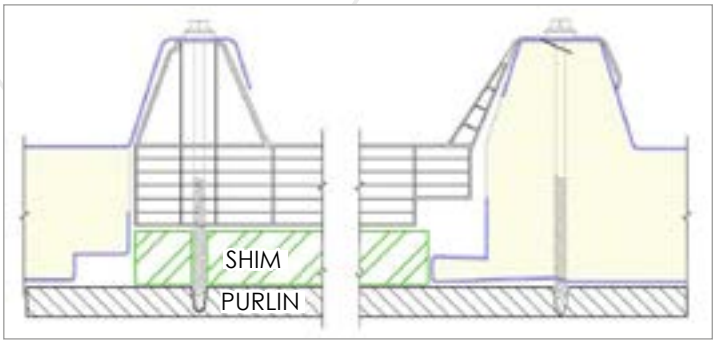
Installation

Prior to installation

The XT LUX skylight installation must be made from roof ridge to channel, with a **minimum 7% slope**. The maximum distance between purlins is **2.0 m**. Do not walk over the skylight.

In a situation in which the sandwich panel is thicker than the skylight XT LUX, the difference in thickness must be compensated by shimming the purlin.



If the HI-XT panel is installed before the skylight leaving a clearance between the HI-XT panels which will be interleaved with the skylight, it is recommended to use a sample of XT LUX to adjust this clearance.

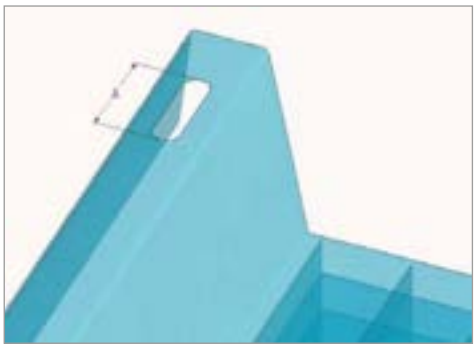
It is recommended that an **EPDM joint** be installed in the purlin zone where the skylight is supported in order to prevent scratching of the lower part.

Cutting of the panel is not recommended once it is at the worksite, circular saws should be used (with small-tooth blades), mechanical ones or those made for metal. The plate must always be secured to prevent vibration. All chip remains of the plate or panel must be removed immediately. The ends of the skylight must be protected with an adhesive closure to prevent dirt from entering the cells.

During installation

It is necessary to make **oval holes** in the upper parts of the wings and fretwork for securing the XT LUX skylight according to the following dimensions:

L = plate lenght (mm)	A = oval lenght (mm)
L ≤ 2,000	10
2,000 < L ≤ 4,000	14
4,000 < L ≤ 6,000	18
> 6,000	18 + 2,6 mm/m of the plate



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

Screw the skylight by means of the executed oval hole, together with the sandwich panel and the purlin. Use self-tapping screws with EPDM washers (HUURRE IBERICA does not supply these items).

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