



NATURAL LIGHTING: SKYLIGHTS AND LIGHT PANELS

Using materials that allow the passage of light is a very popular way to create naturally lit spaces and, at the same time, protect the building and its occupants from environmental conditions. There are many different types of materials available on the market to provide natural lighting, including tempered glass, domes and polycarbonate panels. The latter are the most versatile due to their technical properties, so they can be installed in a variety of spaces and designs.

TECHNICAL PROPERTIES			
RIGIDITY AND THERMAL INSULATION 	LIGHTWEIGHT 	LIGHT TRANSMISSION 	LOW FLAMMABILITY
FLEXIBLE AND EASY TO INSTALL 	IMPACT RESISTANT 	ENVIRONMENTALLY FRIENDLY 	WEATHER RESISTANT / UV CONTROL

Polycarbonate panels offer several advantages that make them the ideal solution for lighting up and protecting indoor spaces:

- Impact resistant and practically unbreakable
- Transparent: up to 90% light transmission
- Weather and UV radiation resistant
- Blocks harmful UV rays
- Lightweight - less than half the weight of glass
- Good flame retardant properties
- Malleable and easy to install using common tools

Technical specifications vary according to panel thickness. Most common thicknesses are 8 mm, 10 mm and 16 mm.

POLYCARBONATE SPECIFICATIONS			
MAX. WIDTH	LENGTH	THICKNESS	
2.1 m	Up to 11.8 mm	8 mm, 10 mm, 16 mm	
Light transmission	8 mm	10mm	16 mm
Clear	74%	74%	77%
Bronze	21%	20%	18%
Opal	39%	34%	42%
Min. bending radius	1.2 m	1.5 m	2.8 m
U-value	2.8 W/m ² °K	2.5 W/m ² °K	1.9 W/m ² °K





POLYCARBONATE ROOFS

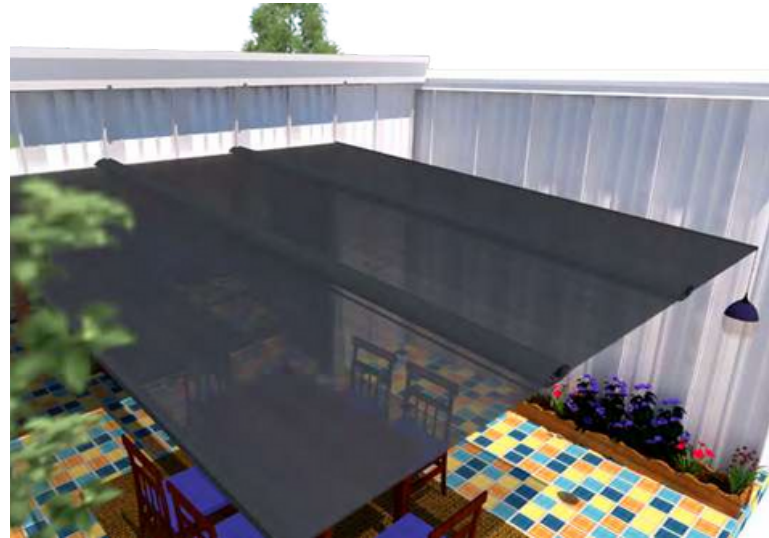
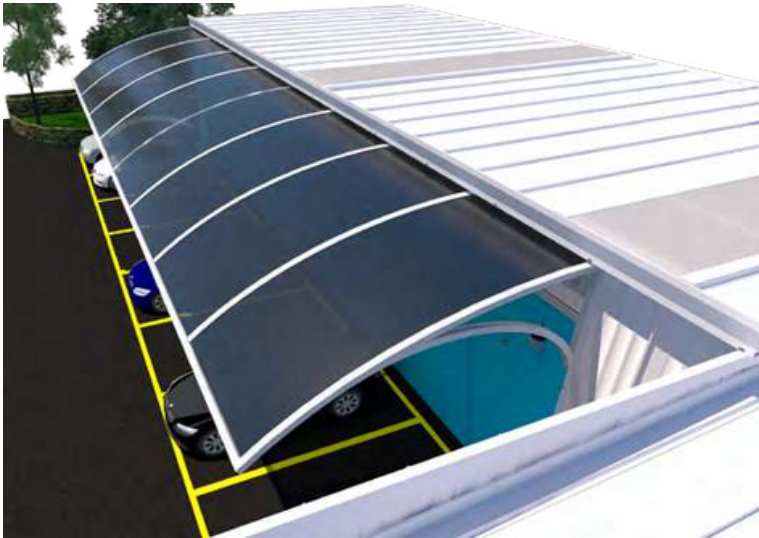
This is a highly aesthetic architectural solution for the natural lighting of spaces.

It is commonly used in buildings such as:

- Architectural roofs
- Industrial roofs

Greenhouses

- Residential roofs: pergolas, canopies, patios, solariums, etc.
- Lightweight ceilings and awnings.



Polycarbonate roof installation details:



Cellular polycarbonate roof

Roof ridge

