Product description

Sector

Industrial / Commercial
Sport centers / Infrastructure / Residential / Urban design
Greenhouses / Advertising / DIY

Application

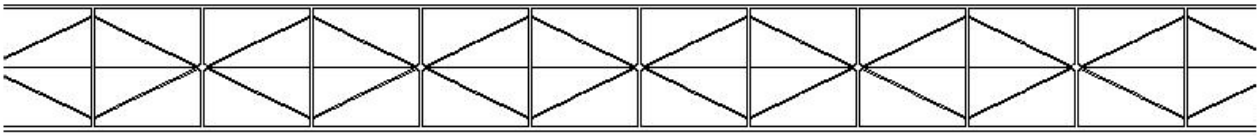
Translucent continuous curve roof (self-supporting)
Translucent roof flat/curve in continuous with load structure
Translucent Roof Sports Structures / Airports / Railway Stations
Translucent Roof in Greenhouses / Roofs / Canopies
Translucent Divide Wall / Advertising Panel / Signaling

Advantage

Easy and quick installation
High thermal insulation
Good light transmission
Optimal impact resistance
Energy saving

Profile:

PROFILE: C-00X (5X) – 16 mm



Technical characteristics

Properties	Value
Thickness	16 mm
Structure	5 walls. Structure X
Width alveolus	14 mm
Width	2.100 mm
Length	6.000 mm (on request)
Light transmission	Clear: 62 % Ice: 35 %
G Value	Clear: 64 % Ice: 48 %
Thermal expansion coefficient	6,5 x 10^{-5} K^{-1} (0,065 mm/m°C)
Thermal transmittance (U)	2,0 W/m² K
Service temperature	-40°C a +120°C
Acoustic insulation	21 dB
Fire certification	B s1 do
UV protection	External side
Minimum cold bending radius	2.400 mm

Certificates

- Reaction to fire certificate according EN 13501-1. Classification obtained: Bs1do
- 10 years limited warranty

Admissible load:

Breaking loads in FLAT installation fixed on 4 sides

Load (N/m²)	Width sheet (mm)		
	700	1.050	2.100
600	-	4.800	650
1.000	-	1.800	550
1.200	6000	1.650	500
1.600	4100	1.100	480
2.000	1550	9.00	450
	Maximum lenght (mm)		

- Loads are for sheets that have fixings on all 4 sidess
- The chart details the values relative to the maximum allowed length of a sheet for each width
- The width must be arranged transversely
- Minimum suggested slope 5%

Recommended installation

Fixation system

The fastening system must allow the free expansion of the sheet, therefore rigid fasteners or through bolts are not recommended. Always provide sufficient clearance between the drill and the screw

Structure. Whenever possible, nerves should be provided in the direction of the maximum slope of the sheet, thus ensuring the minimum accumulation of dust.

The sheets require a longitudinal and / or transverse support structure that can be of any nature or geometry. In modulation, the maximum dimensions of the sheet must be respected according to its thickness and loads to be supported and compatible with a suitable cutting.

Implementation and manipulation

The sheets are protected by a film on both sides indicating the face protected from solar radiation.

When it is necessary to seal the joints, the compatibility of the polycarbonate with the sealant should be ensured (neutral silicone is recommended).

It is essential to cover the cells to prevent the entry of dust inside the sheet. It is recommended to place aluminum tape at the ends: smooth, at the top and porous, which allows the condensation water to escape at the bottom.

If you need to drill the sheet you must use fastening buttons.

Security

Do not step on the sheet. The **sheets are not passable**