

### Product description

Macrolux<sup>®</sup> Multiwall is a polycarbonate sheet with alveolar structure that provides the product with insulation and resistance. It is protected from ultraviolet rays by co-extrusion of a layer of UV absorbers on the external side

#### Sector

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

#### Advantage

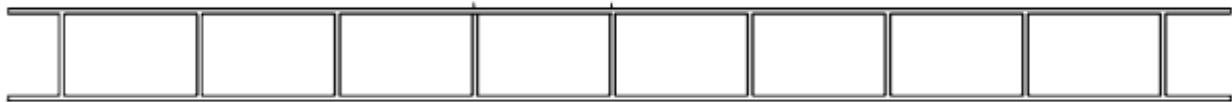
Easy and quick installation  
High thermal insulation  
Good light transmission  
Optimal impact resistance  
Energy saving

#### 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  
Advertising Panel / Signaling

#### Profile:

#### PROFILE: C-000 (2W) – 10 mm



### Technical characteristics

Properties	Value
Thickness	10 mm
Structure	2 walls
Width alveolus	9 mm
Width	2.100 mm
Length	6.000 mm (on request)
Light transmission	Clear: 81 % Ice: 54 %
G value	Clear: 81 % Ice: 61 %
Thermal expansion coefficient	$6,5 \times 10^{-5} \text{ K}^{-1}$ (0,065 mm/m°C)
Thermal transmittance (U)	3,0 W/m <sup>2</sup> K
Service temperature	-40°C a +120°C
Acoustic insulation	19 dB
Fire certification	B s1 d0
UV protection	External side
Minimum cold bending radius	1.500 mm

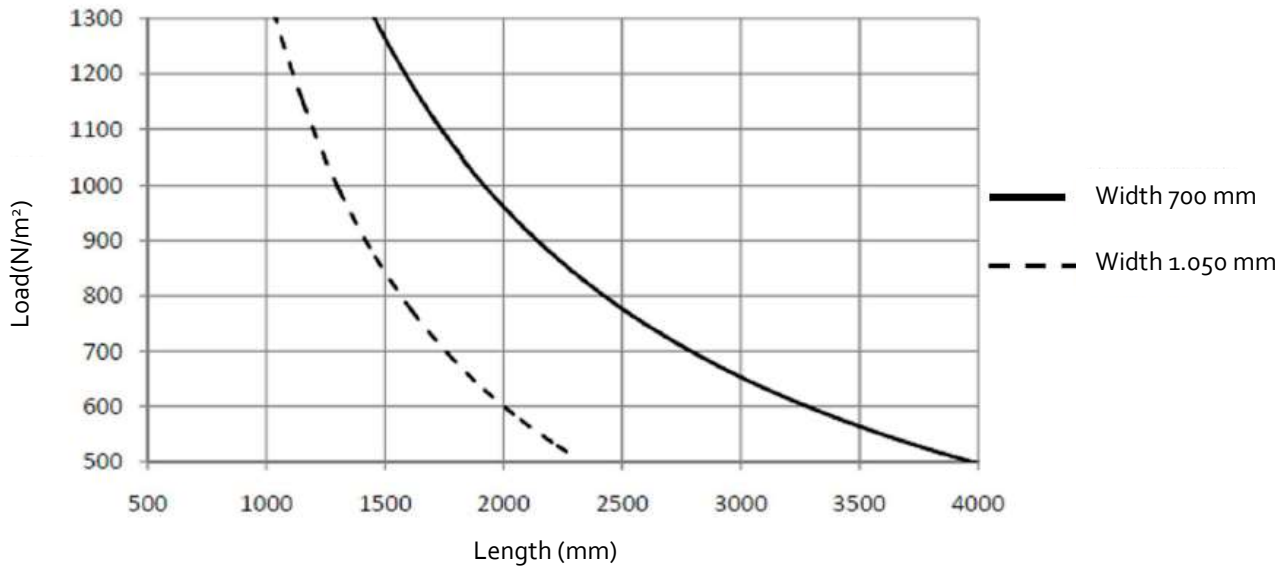
### Certificates

- Reaction to fire certificate according EN 13501-1. Classification obtained: Bs1d0
- 10 years limited warranty

### Admissible load:

#### Breaking loads in FLAT installation fixed on 4 sides

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

The information referred to in this Technical Data Sheet is based on the experience and the tests carried out by the company, without this implying any kind of responsibility for its different applications, given that Stabilit Europa does not have any kind of control over its final use.