

## Product description

Macrolux® 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  
 Sport centers / Infrastructure

### Application

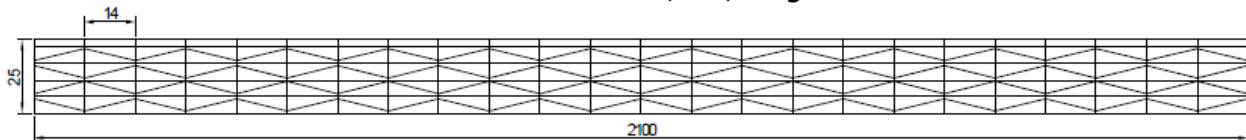
Translucent roof flat/curve in continuous with load structure  
 Translucent Roof Sports Structures / Airports / Railway Stations.  
 Translucent Divide Wall

### Advantage

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

## Profile:

### PROFILE: C-01X (10X) – 25 mm



## Technical characteristics

Properties	Value
Thickness	25 mm
Structure	10 walls. Double structure X
Width alveolus	14 mm
Width	2.100 mm
Length	6.000 mm (on request)
Light transmission	Clear: 38 % Ice: 17 %
G value	Clear: 51 % Ice: 43 %
Thermal expansion coefficient	$6,5 \times 10^{-5} \text{ K}^{-1}$ (0,065 mm/m°C)
Thermal transmittance (U)	1,3 W/m <sup>2</sup> K
Service temperature	-40°C a +120°C
Acoustic insulation	23 dB
Fire certification	B s2 do
UV protection	External side
Minimum vending radius	4.500 / 6.250 (*) mm

(\*) Do not use a radius smaller than 6250 mm.

## Certificates

- Reaction to fire certificate according EN 13501-1. Classification obtained: Bs2do
- 10 years limited warranty

**Admissible load:**

- **Breaking loads in FLAT installation fixds on 4 sides.**  
 Minimum suggested slope 5%

Load (N/m <sup>2</sup> )	Width (mm)									
	700	800	900	1.000	1.200	1.400	1.600	1.800	2.000	2.100
600	-	-	-		6.000	3.110	2.430	1.920	1.435	1.198
800	-	-	-		5.080	2.590	2.110	1.700	1.290	1.090
1.000	-	-	-		3.390	2.400	1.940	1.565	1.200	1.010
1.200	-	-	-		2.760	2.155	1.780	1.415	1.100	950
1.400	-	-	-	6.000	2.490	2.000	1.685	1.370	1.060	905
1.600	-	-	-	3.800	2.270	1.815	1.515	1.260	1.000	865
1.800	-	-	6.000	2.890	1.945	1.650	1.414	1.180	950	830
2.000	-	6.000	4.050	2.180	1.660	1.455	1.270	1.080	895	800
Maximum length(mm)										

- **Breaking loads in FLAT installation fixed on 2 sides**  
 Minimum suggested slope 5%

Load (N/m <sup>2</sup> )	500	600	800	1.000	1.200	1.400	1.600	1.800	2.000
Maximum Width (mm)	1.270	1.235	1.150	1.085	1.020	970	935	890	850

- **Breaking loads in CURVED installation**  
 Take care of the minimum bending radius

Load (N/m <sup>2</sup> )	Radius (mm)										
	4.500	4.600	4.700	4.800	4.900	5.000	5.100	5.200	5.300	5.400	5.600
600	1.760	1.670	1.605	1.540	1.480	1.420	1.370	1.330	1.295	1.280	1.265
800	1.570	1.505	1.445	1.340	1.320	1.280	1.245	1.215	1.200	1.185	1.185
1.000	1.425	1.355	1.290	1.245	1.200	1.165	1.140	1.130	1.120	1.120	1.120
1.200	1.260	1.195	1.155	1.120	1.095	1.074	1.065	1.060	1.060	1.060	1.060
1.400	1.130	1.085	1.055	1.030	1.015	1.005	1.005	1.005	1.005	1.005	1.005
1.600	1.040	1.015	990	970	965	955	955	955	955	955	955
1.800	970	945	935	925	915	910	910	910	910	910	910
2.000	910	890	880	875	875	875	875	875	875	875	875
Maximum Width (mm)											

### Instalación Recomendada



#### 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**