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.

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Sector

Industrial / Commercial
Deportivo / Infrastructure

Application

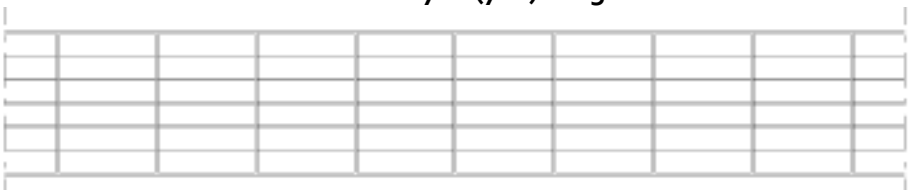
Translucent roof flat/curve in continuous with load structure
Translucent Roof Sports Structures / Airports / Railway Stations.
Translucent Divide Wall

Advantage

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

Profile:

PROFILE: C-07W (7W) – 25 mm



Technical characteristics

Properties	Value
Thickness	25 mm
Structure	7 walls
Width alveolus	16 mm
Width	2.100 mm
Length	6.000 mm (on request)
Light transmission	Clear: 50 % Ice: 24 %
Value	Clear: 62 % Ice: 43 %
Thermal expansion coefficient	6,5 x 10^{-5} K^{-1} (0,065 mm/m°C)
Thermal transmittance (U)	1,4 W/m^2 K
Service temperatura	-40°C a +120°C
Acoustic insulation	23 dB
Fire certification	B s2 do
UV protection	External side
Minimum bending radius	3.750 mm

Certificates

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

Admissible:

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

Load (N/m2)	Width (mm)									
	700	800	900	1.000	1.200	1.400	1.600	1.800	2.000	2.100
600	-	-	-	-	6.000	2.700	2.270	1.835	1.395	1.175
800	-	-	-	-	3.770	2.400	2.020	1.640	1.255	1.070
1.000	-	-	-	-	2.830	2.220	1.885	1.535	1.175	990
1.200	-	-	-	6.000	2.430	2.035	1.740	1.410	1.090	935
1.400	-	-	-	4.300	2.250	1.940	1.645	1.350	1.040	885
1.600	-	-	6.000	3.170	2.000	1.720	1.495	1.235	970	850
1.800	-	-	5.415	2.550	1.755	1.545	1.335	1.135	925	815
2.000	-	6.000	3.315	1.910	1.600	1.425	1.250	1.065	880	785
	Maximum length (mm)									

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

Load (N/m²)	500	600	800	1.000	1.200	1.400	1.600	1.800	2.000
Max. 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/m²)	Radius (mm)																
	3.800	3.900	4.000	4.100	4.200	4.300	4.400	4.500	4.600	4.700	4.800	4.900	5.000	5.100	5.200	5.300	5.400
600	-	2.100	2.045	1.975	1.900	1.830	1.750	1.675	1.590	1.530	1.465	1.405	1.350	1.305	1.270	1.245	1.235
800	2.025	1.950	1.870	1.795	1.715	1.640	1.565	1.495	1.430	1.375	1.315	1.255	1.220	1.190	1.165	1.155	1.150
1.000	1.955	1.875	1.790	1.700	1.615	1.515	1.435	1.355	1.275	1.230	1.185	1.145	1.115	1.095	1.085	1.085	1.085
1.200	1.815	1.725	1.630	1.550	1.465	1.370	1.280	1.200	1.135	1.100	1.070	1.040	1.030	1.020	1.020	1.020	1.020
1.400	1.650	1.565	1.475	1.380	1.285	1.200	1.130	1.075	1.035	1.010	990	980	975	970	970	970	970
1.600	1.500	1.415	1.310	1.230	1.155	1.080	1.025	990	970	955	945	935	935	935	935	935	935
1.800	1.350	1.270	1.180	1.100	1.040	995	955	930	920	910	900	895	890	890	890	890	890
2.000	1.190	1.120	1.045	990	955	925	895	880	870	865	855	855	850	850	850	850	850
	Maximum Width (mm)																

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**