

Product description

Macrolux Solid® is the ideal solution for sectors where impact resistance and optimum light transmission are important requirements.

Macrolux Solid® NO UV are monolithic polycarbonate sheets with no UV protection. Are used in any application that is not going to be exposed to direct sunlight.

Sector

Commercial
Glazing

Advantages

Lightness
High thermal insulation
Optimal impact resistance
Good light transmission

Application

Translucent interior wall (dividing wall)
Transparent Protection and Security Element

Technical characteristics

Properties	Value
Thickness	10 mm
Weight	12 Kg/m ²
Width	2.050 mm
Length	3.050 – 6.100 mm
Minimum cold Bending radius	1200 mm
Light transmission	Clear: 83 % White Opal: 23 %
Thermal expansion coefficient	$6,5 \times 10^{-5} \text{ K}^{-1}$ (0,065 mm/m°C)
Thermal transmittance (U)	4,6 W/m ² K
Service temperature	-40°C a +120°C
Acoustic insulation	32 dB
Fire certification	B s2 do
UV protection	None

Certificates

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

Recommended installation:



Fixation system

The fastening system must allow the free expansion of the sheet, therefore the rigid fixings or through bolts are not recommended.

Structure. The sheets require a transverse support structure that can be of any nature or geometry. In the modulation the maximum dimensions of the sheet must be respected according to the profile and the loads to be supported.

Storage and handling



KEEP SHEETS OUT OF THE RAIN

Sheets must be stored out of the rain to stop condensation forming inside the cells.



KEEP SHEETS OUT OF THE SUN

In the event goods need to be stored while still in their packaging, do not leave the pallet in direct sunlight as this could generate high temperatures inside the packaging and make it difficult to remove the protective film on the sheets later.



SHEETS HANDLING

Sheets must be handled with the utmost care to avoid damaging them with impacts or scratches, which would compromise the material's performance.



SHEET STORAGE

You can stack sheets up to three packs or pallets high. To stop the product coming into direct contact with objects liable to cause damage, you should place spacers or planks between the packs or pallets and any such objects.



USING LIFT TRUCKS

For safer and easier handling, you should use lift trucks with forks that can be spaced at least 2 m. apart and are at least as long as the pack or pallet is wide. Exercise the utmost caution, handling the load carefully and avoiding sudden movements so as not to cause the material to rock or bump up and down excessively.



HANDLING BY HAND

If individual sheets are to be handled by hand, you will need at least two people to carry the sheet on its side. When picking the sheet up off the pack or pallet, you must lift it off cleanly so that it does not scrape against the one underneath and turn it to lie on its side next to the pack.

Installation instructions



ALLOW FOR THE POLYCARBONATE'S THERMAL EXPANSION

Sheets must be fixed so that they are retained by at least one whole cell length on each side; an allowance for the material's thermal expansion should be added to this measurement.



REMOVING PROTECTIVE FILM AFTER INSTALLATION

Sheets come with a protective film on both sides. There is a printed film on one side of the sheet to show you that this is the side to face out. Remove the film as soon as the sheets have been installed.



SHEET SEALING

Where sealing is necessary, only use silicone, sealants, gaskets and paints that are comparable with polycarbonate.



SHEET TAPING

Seal the ends of the sheets by applying adhesive aluminium tape to seal the cells and stop dirt getting inside the chambers.



SHEET CUTTING

Sheets can be cut using common cutting instruments, such as vertical, horizontal or circular cutters, or reciprocating saws, provided they are fine toothed.



SHEET DRILLING

Sheets can be drilled, provided suitable bits are used. Nonetheless, we do not recommend piercing the sheet with through fixings unless they are suitable slotted to allow for thermal expansion.

Maintenance



SHEET CLEANING

To care for sheeting, we recommend cleaning at least twice a year with water and non-alkaline detergents. Do not use abrasive equipment or solvents, which could damage the surface of the sheeting.



DO NOT WALK ON TOP OF SHEETS

Do not walk directly on top of sheets during installation. We recommend placing a suitable supporting element on top to distribute weight evenly.

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.