

Marlon FSX

Flat Sheet Polycarbonate

Marlon FSX is a flat polycarbonate sheet with dual sided UV protection which enables longer sheet life expectancy in tough climatic conditions, prevents yellowing and guards against loss of strength.

Product Features

- Enhanced protection against the effects of weathering and UV radiation
- Excellent impact resistance
- Light weight - half the weight of glass
- Option: Strong Adhesion Film 80 microns (SAF80)

Colour *	Light Transmission @3mm
Clear (S)	90%
Bronze (CE)	50%
Opal (FH)	35%

Standard Sheets*	
1220 x 2440mm	2, 3, 4, 5 & 6mm
2050 x 3050mm	2, 3, 4, 5, 6, 8, 10, 12 & 15mm
2050 x 6110mm	3, 4, 5, 6, 8 & 10mm
Sheet Weight	3.6kg/m ² @ 3mm
U-Value	5.41W/m ² K @ 3mm

*Non-standard colours and sheet sizes are available subject to minimum order quantities.

Applications	
External applications	Vertical glazing
Curved & flat rooflights	Architectural roofing
Sunrooms	Covered walkways

Recycling

Marlon FSX is 100% recyclable and reusable if separated from other materials at the end of its life cycle. Polycarbonate is a widely recycled material - contact your local recycling centre for more information.

Installation

Applications of Marlon FSX must make adequate allowance for thermal movement, nominally 3.5 mm per metre. Adequate clearance must be allowed in the holes drilled for fixing and sheet lengths have to be limited so that there is not excessive movement at the ends.

3mm sheets can be cold curved down to a minimum radius of 525mm. In practice the sheet length, along the curve, needs to be at least twice the sheet width. If this geometry cannot be accommodated then thermoforming may be an option. It is essential that compatible gaskets or silicon be used in installation.

Service Temperature

Marlon FSX mechanical performance is known to remain stable for prolonged service in temperatures ranging from -20 to +100°C (Short term unstressed -40 to +130°C). Therefore it can be installed in a diversity of applications, with varying temperatures.

Fire Performance

The fire performance of Marlon FSX has been independently tested. The current test reports can be obtained from the Technical Department.

Storage & Handling

Marlon FSX is best stored indoors under ambient warehouse conditions up to 20°C, away from direct sunlight, in a cool dry store. In case of outdoor storage, additional all-round cover is necessary. The surface masking film should remain on the sheet until it is ready for use. Avoid standing sheets on end. Pallets should be stacked no more than three high.

Maintenance

Lukewarm water, ordinary non-abrasive household detergent and a sponge or soft cloth is normally sufficient, however for degreasing and cleaning prior to secondary operations ethanol & isopropanol are suitable solvents. The cleaning process should then be repeated after using solvents and the sheet rinsed.

Additional Information

Separate data sheets are available; please contact the Technical Department for the most current information.