



marlon f

Flat Sheet Polycarbonate

MARLON FS is the extruded polycarbonate flat sheet manufactured by Brett Martin. The sheet is characterised by high optical clarity, light transmission, impact resistance and durability. The designation FS is used for sheets without UV protection for internal use, FSX is used for sheets with UV protection on both sides. The sheets are available as gloss, embossed or anti-reflective. A range of standard widths and thickness are available in clear and colours.

Colours:	Light Transmission:
	DIN 5036
Clear (S)	90% (3mm)
Clear Embossed	85%
Bronze (CE)	50%
Grey (IM)	27%
Green (CF)	38%
Opal (FH)	38%

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

Standard sheet sizes:		Tolerance:
Width:	Up to 2050 mm	+/- 5 mm
Length:	Up to 5 m	-0, +10 mm
	Over 5 m	-0, +25 mm
Thickness	< 2 mm	+/-0.05 mm

Service Temperature

MARLON FS can be installed in a wide diversity of applications, with varying service temperatures. The material's mechanical performance is known to remain stable over prolonged service in temperatures ranging from -20 to $+100$ °C.

Installation

Applications of MARLON FS must allow adequate allowance for thermal movement, nominally 3.5 mm per metre. Adequate clearance must be allowed around the holes drilled for fixing and the lengths have to be limited so that they do not cause excessive movement at the ends. Sheets can be cold curved down to a radius of 10 times the sheet thickness. It is essential that compatible gaskets and silicon is used in installation.

Fire Performance

The fire performance of MARLON FS has been independently tested and classified according to the following classification obtained:

FRANCE		M2
GERMANY	DIN 4102	B1
ITALY	CSE RF	Class
UK	BS476: Part 6	I=7.5,
UK	BS476: Part 7	Class

