

Technical Specifications

SMARTBOARD RECYCLED PLASTIC FLAT SHEET

Primary Application

Cosset's **SmartBoard** 100% Recycled Plastic Flat Sheet represents the ultimate in flat sheet materials in Australia. It is manufactured from 100% post consumer waste high-density polyethylene (HDPE), meaning it can itself be recycled. **SmartBoard** is strong, lightweight, almost indestructible and offers a number of distinct benefits over comparable flat sheet products.

Available in 9 colours, Cosset's **SmartBoard** gives any specifier, organization or individual the ability to use this unique material for applications only limited by the imagination. **SmartBoard**'s non-stick surface cleans easily, is scratch resistant and is difficult to graffiti, making it ideal for public open space applications.

Features

- UV stabilised
- Provides a long-term mechanical life
- Can be heat welded
- Can be drilled, routed and sawn using timber tools
- Waterproof so it won't absorb moisture
- Will not delaminate
- Chemical resistant
- Will not rot or mould
- Will not breed or attract white ants
- Has acoustic properties similar to brick

Options

- Available in 9 Different Colours
- Available in 6 Different Thicknesses

Colour Notes: The colour base is selected to provide minimum degradation through a large range of external and internal applications. Over time some light coloured surface degradation will develop depending on the severity of the environment. It must be noted that darker colours will provide the highest contrast ratio with the lighter colours the least.

Fixings & Installation

SmartBoard 100% Recycled Plastic Flat Sheet can be drilled, routed or sawn with standard wood working tools. Consideration should be given to thermal movement of the sheet during installation as the panel can expand approximately 6mm along the 2440mm dimension through 40°C temperature change. Screw holes should be drilled oversized to allow for movement. Satisfactory adhesive bonds can not generally be achieved with polyethylene (PE) formulation sheets. Plain head screws should be used for fixing while self embedding screws should be avoided.



Test Data

Test	Method	Unit	Recycled (Cell) HDPE
Density	ASTM D1505	g/cm ³	<0.86
Tensile Strength at Yield	ASTM D638	kg/cm ²	192
Tensile Strength at Break	ASTM D638	kg/cm ²	55
Elongation at Break	ASTM D638	%	45
Elongation at Yield	ASTM D638	%	10
Shore D Hardness	ASTM D2240	D Scale	21
Flexural Modulus	ASTM D790M-86	kg/cm ²	12066
Izod Impact	ASTM D256	kg cm/cm	12.6

Manufacturing Tolerances

Length	+1.5mm, -1.5mm	Thickness	5.00%
Width	+1.5mm, -1.5mm	Diagonal	0.02%

Models

Model Code (FS) SmartBoard D Chart

Model Code	D Code	Thickness (mm)	Sheet Size (mm)	Weight (kg)
FS	A	6	2440 x 1220	15
FS	B	10	2440 x 1220	24
FS	C	12	2440 x 1220	29
FS	D	15	2440 x 1220	36
FS	E	19	2440 x 1220	46
FS	F	25	2440 x 1220	60

How To Specify :

COSSET - **FS** - **A** - **RED** - **2440 x 1220**

Manufacturer Model Code D-Code Colour Size