Plaspanel® recycled plastic panels.

Use them for just about anything.

2 HDPE

Plaspanel®

Multi-purpose recycled plastic panels

Plaspanel® are strong yet lightweight flat panels manufactured from 100% recycled plastic. Almost indestructible, Plaspanel® flat sheet panels offer a number of distinct benefits over comparable flat sheet products.

Benefits

- Waterproof so they do not rot, swell, delaminate, deteriorate or absorb moisture
- Non-stick surface cleans easily
- Scratch resistant
- Difficult to graffiti
- Rustproof
- Chemical, bacteria and mould resistant
- Acoustic properties similar to brick
- Easy to work with
- Can be cut, routered, drilled, welded and mechanically fixed with standard tools

Applications

The possible applications for Plaspanel® are endless. The durability of the product makes it perfect for outdoor and high traffic areas and uses. The only limitations are your imagination.

100% recycled and 100% recyclable

Plaspanel® is the be-all and end-all of closed loop recycling. The product is manufactured from 100% post consumer recycled plastic waste in high-density polyethylene (HDPE) and can itself be recycled.

All waste or leftover product can simply be separated from other materials and sent for recycling. Good news for you and good news for the environment.

Standard range

Available in seven colours, our stock range comes with a textured stipple finish. Sheets come in bold primary colours of red, green and blue and are complemented with monochromatic palette of off-white, oyster grey, charcoal and black.

Custom range

Plaspanel® can be customised and fabricated to your project's exact requirements. Other colours and finishes can be manufactured when ordered in larger quantities.

- Colour Matching
- Perforation
- Custom Patterns
- Smooth, emboss or deboss finish
- Acoustically Rated
- Fire-retardant
- Special thicknesses
- Larger sheet sizes (up to 5750 mm x 1350 mm)

For image gallery, FAQs, product specifications or to download technical data sheets visit www.plaspanel.com.au

Lining animal transport / enclosures

Exterior cladding

Sculpture

Stock colours
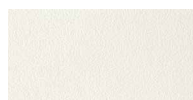
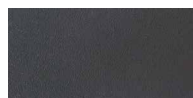2440 mm

1220 mm

Red

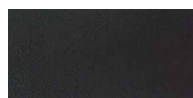**Blue**

Green

Off-white

Oyster Grey

Charcoal

Black

Colours may vary slightly from actual product colour. For complete satisfaction, contact us for a free product sample.

Technical Data

Test	Method	Unit	Recycled (Cell) HDPE
Density	ASTM D1505	g/cm³	0.82
Tensile Strength at Yield	ASTM D638	kg/cm²	192
Tensile Strength at Break	ASTM D638	kg/cm²	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/cm²	12066
Izod Impact	ASTM D256	kg cm/cm	12.6

Product Details

Sheet Size	2440 mm x 1220 mm					
Thickness (mm)	6	8	10	12	15	19
Weight per panel (kg)	13.6	18.1	22.7	27.2	34	43

Manufacturing Tolerances

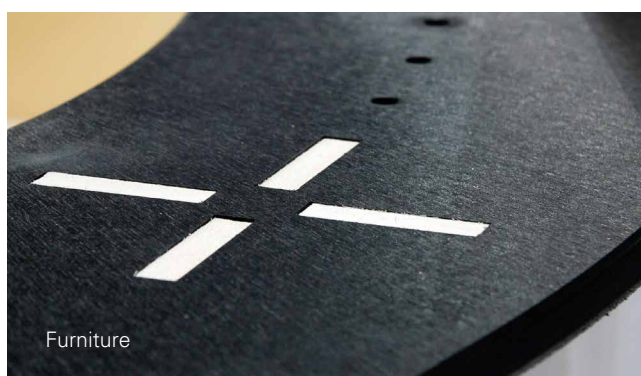| Length	- 0, + 5 mm	Thickness	± 0.2 mm
Width	- 0, + 2 mm	Diagonal	3 mm

UV Stabilisation

All Plaspanel® colours are UV stabilised and manufactured to provide mechanical strength and colour consistency. Plaspanel® Black does not include UV inhibitor.

Mechanical Strength

Plaspanel® is designed to produce a long-term mechanical life – 10 years is a reasonable expectation.

Colour

Over a period of time some light coloured surface degradation will develop depending on the severity of the environment. Darker colours will provide the highest contrast ratio with the lighter colours the least.
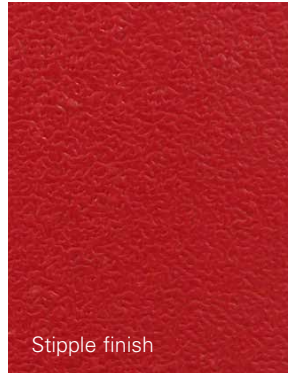
Furniture

Plaspanel®

Fencing

Acoustic & sound barriers

Industrial components

Stipple finish

Car wash

Cladding

Easy to work with

Fixing and Installation

Plaspanel® multi-purpose panels can be drilled, routed or sawn with standard wood working tools. Consideration should be given to thermal movement of the panel during installation as the panel can expand approximately 10 mm along the 2440 mm dimension through 40°C temperature change.

Screw holes should be drilled oversized to allow for movement, the larger you can make the hole and still fasten securely, the better the installation. Satisfactory adhesive bonds can not generally be achieved with polyethylene (PE) formulation panels.

Heat Welding
A major advantage of Plaspanel® is the ability to mitre cut, fold, and heat weld. Making them ideal for quick seamless fabrication on-site or off-site.

Fasteners
In general it is recommended to use flat fasteners. Small headed nails and screws with cutting flutes under the head are likely to produce inferior pull through resistance. Plain head screws are preferable while self embedding screws should be avoided.

Painting
Plaspanel® can not be painted with conventional paint systems.

Material Safety Data

This product is not classified as hazardous according to criteria of Worksafe Australia. All work with these panels should be carried out in such a way as to minimise the generation of shavings and fines. Excessive levels of shavings and fines may present a slippage hazard on hard surfaces. General use safety glasses and a replaceable filter or disposable half face respirator should be worn when machining.

Recycling
The manufacturing process not only produces panels from plastic waste but the panels can themselves be recycled.
Off-cuts and general waste material should be placed in containers separate from other waste for recycling.

Storage
Keep stock clear of the ground and away from sources of heat, flame or sparks. Store panels flat and fully supported.

Available From:

Plaspanel®
Multi-purpose recycled plastic panels