



Our colour
range is all green.

Plaspanel® recycled plastic panels



Plaspanel®

Multi-purpose plastic panels

For application images, product specifications or to download technical data sheets visit www.plaspanel.com.au



Plaspanel® are strong yet lightweight flat panels manufactured from recycled plastic using a unique manufacturing process. Almost indestructible, Plaspanel® flat sheet panels offer a number of distinct benefits over comparable flat sheet products. Plaspanel® is waterproof so they do not rot, swell, delaminate, deteriorate or absorb moisture. The non-stick surface cleans easily, is scratch resistant and difficult to graffiti. They are rustproof, chemical, bacteria and mould resistant. The acoustic properties are similar to brick so they are ideal for many applications. Best of all, Plaspanel® is easy to work with and can be cut, routed, drilled, welded and mechanically fixed with standard tools.

Multi-use panels

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.

Colour range

Now available in nine colours in the recycled range, the opportunities are even greater. Signage and fit-out can be produced in corporate colours while playground and outdoor equipment looks the part. Other colours can be manufactured when ordered in larger quantities.

Recycled and 100% recyclable

Plaspanel® is the be-all and end-all of closed loop recycling. The product is manufactured from 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.



Plaspanel®
Multi-purpose plastic panels

Product applications • **Agricultural** • Nursery Propagation benches • Planter
• **Building and Construction** • Joinery and fitouts in wet areas • Formwork •
• Tables and Trestles • Counter tops • Laboratory bench tops • Playground equipment
Fume cupboards • **Marine** • Pontoons, marinas and jetties • Boat decks • Bulkhead and

Technical Data

Test	Method	Unit	Recycled (Cell) HDPE
Density	ASTM D1505	g/cm³	<0.76
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	10	12	15	19	25
Weight per panel (kg)	13.6	22.7	27.2	34	43	56.6

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

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 and 10 years would be a reasonable expectation.

Colour

Our colour base is selected to provide minimum degradation through a large range of external and internal applications. Over a period of 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.



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



boxes • Grass root barriers • Garden bed edges • Irrigation troughs and channel liners • Produce bins • Animal breeding pens
Access floors • Theatre and concert staging • Industrial water proofing • Eaves and soffit linings • Shower and cubicle partitions • **Furniture**
• **Manufacturing** • Moulding boxes for concrete products • Signage • Machinery enclosures • Conveyor wear strips • Noise Barriers •
l trims • Seat backs and bases • **Materials handling** • Storage bins • Van and truck linings • Food pallets and bins • Protective packaging





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 6 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.

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Available From: