



Treadplate

Very Low Water Absorption

Standard test procedures during production show that water take - up is typically less than 1%.

Good Stiffness Characteristic for panel weight

Three point bend tests carried out using production QC procedures indicate that for similar mass, the Phenolic FRP board is stiffer than plywood of similar thickness.

High Impact Resistance

Tests carried out at the CSIRO with Australian Panel Products Phenolic FRP board show minimal indentation when impacted by an ice ball shot out of an air canon at approximately 170 kmph.

Good Abrasion Resistance

The test result using standard abrasion testing procedures and equipment translates into a panel having excellent wearing properties regardless of the finish specified.

Excellent Workability

The nature of phenolic resin based FRP boards permits normal fabrication techniques. There is no need for special tooling; in fact high speed steel tools can be used however for long life tooling Tungsten Carbide Tipped tools are suggested. The panels can be sawn, drilled, routed and glued using appropriate adhesives.

Good Temperature Stability

Because phenolic resin is a thermosetting resin, the panel is temperature stable up to a temperature of 1500C.

Good Dimensional Stability

Since the cured phenolic resin has a very low moisture take - up, and is temperature stable to relatively high levels the panels exhibit a high degree of stability.

Surface Texture Options

The Australian Panel Products Phenolic FRP panels are available in three (3) standard finishes:-

1. Smooth finish for bearing type applications, where low surface friction characteristics are required.
2. Intermediate texture anti - skid finish, suitable for use in areas where a good anti - skid characteristic is required but if a fall occurs minimal tissue damage will be sustained by the person falling.
3. A propeller (chequer) plate type texture, this is designed to provide the key benefits of a soft feel slip resistant surface but without all the issues of corrosion. Can be used aesthetically or for low grip type applications.
4. An aggressive heavily textured anti - skid finish intended for use in heavy duty wear areas. Typical applications could be Marina decks, mineral processing plants and any heavy wet industrial application.

Panel Sizes

2400 x 1200 Standard.

Manufactured locally so almost any size can be accommodated.



Panel Thicknesses

Available in the thickness range 3mm to 25mm.
Other thicknesses will be considered upon request.

Face Colour Options

Generally Black and Brown are the standard colours.
Other colours and colour combinations will be considered upon request.

Technical

Characteristic	Test Method	Value/Result
Stiffness	Three point bend test	Typical Plate Stiffness "D" characteristic:- 3mm thick = $23.7 \times 103 \text{ Nmm}^2/\text{mm width}$. 5mm thick = $130.3 \times 103 \text{ Nmm}^2/\text{mm width}$. 10mm thick = $865.2 \times 103 \text{ Nmm}^2/\text{mm width}$.
Electrical Insulation Resistance	AS 1795.1 - 1983	Greater than 10 Megohms.
Wear Resistance	Taber H 174, 1 H18 calibrade.	50% Surface pattern removed = 50 cycles. Pattern and colour removed = 375 cycles.
Impact Resistance	CSIRO Ice Canon Test	38mm Dia ice ball @ 47m/sec Generally indents less than 1mm
Moisture Resistance	AS 1795.1 - 1983	< 1%
Steam Resistance	AS 2098.2 - 1977	10 hours Steam @ 200kPa No Delamination

Span Tables

Live load + Permanent Live Load.
Total 1.5 kPa.

Joist centres Double span	Recommended Panel thickness	Deflection
450mm	10mm	1.07mm
600mm	14mm	1.23mm
800mm	18mm	1.83mm

Capacity of flooring may be greatly improved if a contiguous system is implemented, where two thinner layers are used and glued together and screwed at offset jointing locations.