

UNIBOARD TIMBER REPLACEMENT MATERIALS



COMPANY PROFILE

Dotmar Engineering Plastic Products was founded in 1967 and is currently the largest importer and distributor of thermoplastic stock shapes, polyurethanes and conveyor components in Australia and New Zealand. Dotmar's distribution footprint extends to over 5,000 customers servicing more than 100 diverse industry sectors.

Dotmar has built up its market-leading position by delivering a high level of customer service and applications advice, supported by a deep level of technical expertise.

Dotmar is at the forefront of developing thermoplastic applications for commercial and industrial use and has built up a highly-skilled product development team supported by a group of product specialists and mechanical engineers. Dotmar offers an extensive knowledge base in thermoplastics, polyurethanes and conveyor products coupled with strong partnerships with world leading manufacturers.

Dotmar's focus is the technical application of thermoplastic materials in a number of exciting industries, ranging from pharmaceutical and materials handling to as far a field as architectural design. Dotmar excels in distribution, technical support, material selection and applications development.

So why choose the market leader...

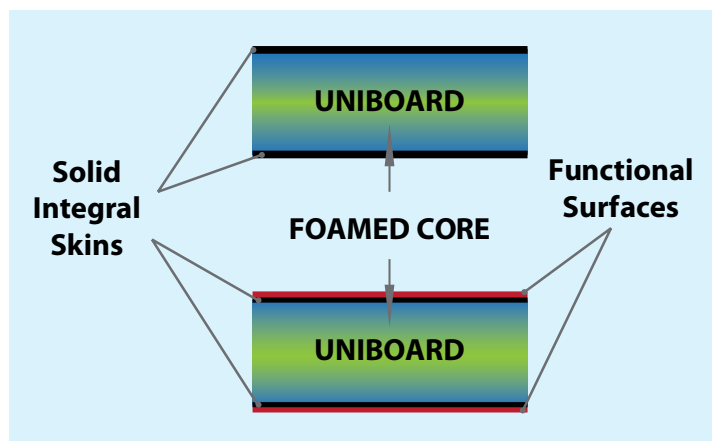
- Offering the widest range of quality engineering thermoplastics
- Specialists in our field, offering the highest levels of material selection advice and technical support in the industry
- Largest distribution footprint in Australia and New Zealand
- Capital investment in inventory - commitment to continuous material supply and customer service delivery
- Long-standing partnerships with the world leaders in thermoplastics manufacturing



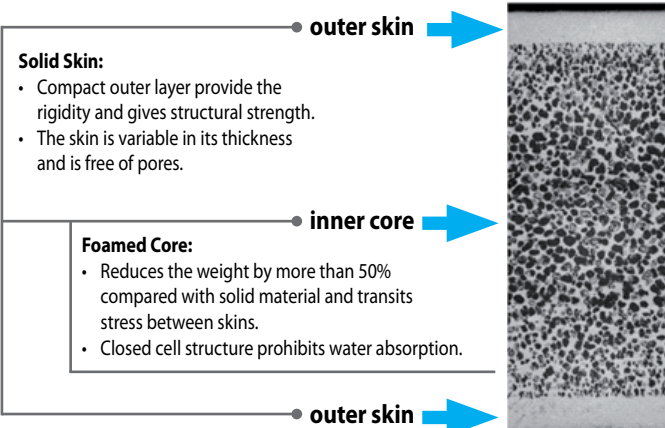
UNIBOARD INTRODUCTION

Dotmar's Uniboard is a recycled plastic flat sheet marine ply and plywood alternative that is ideal for the construction industry. Uniboard is a unique, thermoplastic alternative to traditional timber or rubber materials and is almost indestructible, lightweight, weatherproof, rust, chemical and mould resistant providing long term cost savings. Uniboard is easy to work with and can be cut, routed, drilled and mechanically fastened with standard hardware materials such as screws and regular construction adhesives. The non-stick surface is aesthetically pleasing, cleans easily, is scratch resistant and allows for easy removal of graffiti where required.

WHAT IS UNIBOARD?



This basic principle offers a wide range of possibilities for various applications!



UNIBOARD PRODUCT OFFERINGS

UNIBOARD ECO:

Uniboard ECO is an extruded flat sheet panel manufactured from a unique combination of recycled plastic in high density Polyethylene (HDPE) and Polypropylene (PP). Plastic sheet panels offer a number of distinct benefits over comparable flat sheet products such as ply, marine plywood, mdf and other traditional construction and shop fitting materials.

Physical Properties: Uniboard ECO

Specific Gravity:	g/cm ³	0.75
Minimum/Maximum Service Temperature in Air:	°C	-30 to 130
Tensile Strength:	Mpa	13
Hardness:	Rockwell M	65
Co-efficient of thermal expansion:	m/(m.k) x 10 ⁻⁶	200
Surface Resistivity:	Ohms	>1x10

Values may vary due to formulation changes.



Round Yard

UNIBOARD STANDARD:

Uniboard Standard is an injection moulded flat panel manufactured from virgin polypropylene with the addition of 15% mineral re-enforcement. The manufacturing process produces flat sheets that offer a number of distinct benefits over comparable flat sheet products such as mdf and craftwood.

Physical Properties: Uniboard Standard

*Specific Gravity:	g/cm ³	0.48 - 0.74
Minimum/Maximum Service Temperature in Air:	°C	-30 to 130
Dielectric Strength:	KV/mm	>500
Surface Resistivity:	Ohms	>1.300
Water Absorption:	%	<0
UV Resistance:		Yes

*Can be modified to suit your requirements.



Horse Interior Walls

UNIBOARD ULTRASTIFF:

Uniboard Ultrastiff are flat panels manufactured from virgin polypropylene and further enhanced with a re-engineered outer layer that offers distinct benefits over comparable flat sheet products such as marine plywood.

Physical Properties: Uniboard Ultrastiff

Impact Resistance Charpy Unnotched:	KJ/m ²	1.45
Stiffness:	N/mm	343.25
Screw retention:	N	97
Water Absorption:	%	<0.05
UV Resistance:		Optional
Heat transfer Co-efficient:	W/(mK)	0.10
Thermal Elongation:	mm/(mK)	0.04

*Can be modified to suit your requirements.



Piggery Stall Walls

APPLICATIONS

VAN FLOOR RANGE

Advantages over Plywood:

- Replaces 12mm plywood with Uniboard
- Durability in operation
- Surface properties enhanced
- Cost reduction in fuel / maintenance
- No moisture absorption
- Can be recycled
- Increase in payload (weight reduction)



Weight (kg/floor panel)			
Model	Plywood 12mm	Uniboard 10mm	Weight Saving
Vivaro	34	20	14
Transit	44	26	18

As tested with Uniboard Standard.

HORSE TRAILERS

Advantages over Plywood:

- Long durability due to weather resistance
- Better impact behaviour
- Up to 30% lighter depending on timber grade replaced

Advantages over Aluminium:

- No permanent deformation in frequently loaded zones
- No local marks after massive impacts
- One-piece solution
- Up to 200 times lighter



Horse Float, Tail Gate, Tack Box & Sidewalls.

SCAFFOLDING

Advantages over Plywood:

- Abrasion resistance
- Scratch resistance
- Anti-slip surface (when anti slip surface is applied)
- Flexural performance
- Impact performance
- Water resistance
- No painting required
- Easily cleaned



Scaffolds

ADVANTAGES OF UNIBOARD

- Fuel efficiency savings per kg*
- Environmental recyclability
- Parasite resistance
- Rot resistance
- Chemical resistance
- No moisture absorption, no deterioration
- Weight reduction*
- Anti slip properties*
- Abrasion performance enhanced
- Low surface tension, dirt and other stains do not stick onto surface and are easily cleaned
- Scratch resistance
- UV resistance*
- Impact resistance
- Solid colour throughout material (no need to paint)
- Reduced maintenance

*Depending on grade of material.



Playground

SHEET SIZE AND COLOUR RANGE

Standard Uniboard Size:

- 2440 x 1220mm

Standard Uniboard Thickness:

- 10mm
- 12mm
- 15mm
- 19mm

Standard Colour Range:

- Black
- Overcast (Dark Grey)
- Ocean Blue (Dark Blue)
- Gum Green (Dark Green)
- Red

Optional Colour Range:

- Yellow
- Orange

Custom colours are available on request.

*Sheets are coloured throughout.



OTHER APPLICATIONS

Boat Upholstery



Shop Display/Shelving



Caravan Floors



Leisure Equipment



4WD Shelving



Kennels/ Catteries/Piggeries/Hatcheries





Please visit and learn more online at www.dotmar.com.au

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