

# DATASHEET

## FEATURES & BENEFITS

Tricoya® is characterised by its durability and dimensional stability properties. The new design and application possibilities offered by the development of Accoya® performance in an MDF panel format has been demonstrated over the past 5 years to provide product manufacturers, designers, contractors, and architects with a new material class. A truly durable, stable and versatile panel requiring no supplemental protection.



### DURABLE

Longer lasting, perfect for outdoor use or wet (interior) environments



### 50 YEAR WARRANTY

Peace of mind with a 50 year Tricoya® warranty above ground and 25 years in ground



### DIMENSIONALLY STABLE

Swelling and shrinking dramatically reduced



### DESIGN FREEDOM

All the design, fixing and machining flexibility of medium density fibreboard



### LOWER MAINTENANCE COSTS

Extended periods between exterior coatings maintenance



### IDEAL FOR COATING

Improved stability and durability enhances the service life of the coating. Damaged coating will not affect the panel warranty.



### FUNGAL RESISTANT

Effective barrier to fungal decay



### SUSTAINABLY SOURCED

Sustainably sourced FSC® certified



### NO ADDED FORMALDEHYDE

Tricoya® complies with CARB 93120 for Phase 2 and NAF requirements.

## SUPPLY

Tricoya is produced in the following standard panel size\*

6mm	6mm x 1220mm x 2440mm
9mm	9mm x 1220mm x 2440mm
12mm	12mm x 1220mm x 2440mm
15mm	15mm x 1220mm x 2440mm (3050mm)
18mm	18mm x 1220mm x 2440mm (3050mm)

\* Dimensions are close approximations based on conversion from metric

Other sizes may be produced upon request and typically associate with a minimum order quantity. Potential panel size is governed by the 2440mm press width and longitudinal options of 1525mm to 5485mm depending on container loading options.

Custom thicknesses between 5mm and 18mm can be produced for quantities of at least one container.

## EQUILIBRIUM MOISTURE CONTENT

It is important to note that there is little or no water chemically bound with wood in Tricoya. Panels will have a moisture content of 3% to 5% which will vary slightly with ambient humidity.

## MACHINING & FINISHING

Tricoya may be cut, machined and used in exactly the same way as other wood fibreboards with no change in machinability. Tricoya is delivered with a 120 grit sanded finish. It may be sanded with finer papers to achieve smoother surfaces. Water based paint systems may be used to decorate Tricoya. Tricoya may be laminated with melamine papers, high pressure laminates, wood veneers, foils and other materials. Exterior adhesives such as epoxy, polyurethane, phenol-resorcinol resin and EPI may be used as long as they meet exterior use requirements via ASTM 05751 Wet Use, or other equivalent test method.

All mechanical fasteners that may be come into contact with water, including screws, hinges, fixtures and fittings, should be manufactured from Stainless Steel ANSI type 304 or 316. Internal handles and other furniture that are normally used in dry conditions may be made from any usually acceptable material. Components used for furniture and other interior applications that are normally installed in dry conditions may utilise galvanised, coated and other metals with low corrosion resistance.

Corrosion testing on naval brass and higher quality aluminium products show that these metals are highly corrosion resistant in direct contact with Tricoya and may also be considered.

There are many aluminium alloy types. By way of example the following aluminium grades performed well in internal testing: 3003, 6005, 6063, 6061, 5154, 5052, 3052 and 1100.

## FIRE RATING

Tricoya® is classified as Class C by the ASTM E84 method. Tests, according to ASTM E84 (surface burning characteristics), have shown that Tricoya performs in line with other solid wood species and MDF, and well within Class C. Class A flame spread rating can be obtained with exterior grade intumescent coating. For copies of any reports and/or certificates, please contact your sales representative or visit our website.

## INSECT RESISTANT

Tricoya has termite resistance equal to or better than ground contact rated CCA treated pine.

## TECHNICAL SPECIFICATIONS

Property	Test Method	Tricoya®	Requirements for CPA's Engineered Wood Siding
Density		> 720 kg/m <sup>3</sup> (6mm) > 680 kg/m <sup>3</sup> (18mm)	N/A
Water absorption	ASTM D1037 - ANSI A 135.6	< 7.0%	12% Max
Thickness swell	ASTM D1037 - ANSI A 135.6	<2.5%	8% Max
Weatherability	ANSI A 135.6	<0.7%	17% Max
Linear expansion	ASTM D1037 - ANSI A 135.6	<0.13%	0.35% Max
Nail head pull through	ASTM D1037 - ANSI A 135.6	>900 N	670 N Min
Lateral nail resistance	ASTM D1037 - ANSI A 135.6	>700 N	670 N Min
MOR	ASTM D1037 - ANSI A 135.6	>20 N/mm <sup>2</sup>	12 N/mm <sup>2</sup> Min
MOE	ASTM D1037 - ANSI A 135.6	>2500 N/mm <sup>2</sup>	N/A
Hardness	ASTM D1037 - ANSI A 135.6	>4000 N	200 N Min
Moisture content	ASTM D4442 - ANSI A 135.6	3% to 5%	4% - 9%
Thermal conductivity	ASTM C177	0.103 W/m-K	N/A



[www.brittontimbers.com.au](http://www.brittontimbers.com.au)

BT NSW  
02 8783 9900  
[sales.nsw@brittontimbers.com.au](mailto:sales.nsw@brittontimbers.com.au)

BT QLD  
07 3888 3351  
[sales.qld@brittontimbers.com.au](mailto:sales.qld@brittontimbers.com.au)

BT VIC  
03 8769 7111  
[sales.vic@brittontimbers.com.au](mailto:sales.vic@brittontimbers.com.au)

BT International  
02 8783 9900  
[dominic@brittontimbers.com.au](mailto:dominic@brittontimbers.com.au)

[www.tricoya.com](http://www.tricoya.com)

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TECHNOLOGIES

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