Datasheet

FEATURES AND BENEFITS

Tricoya® is characterized 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 in tough exterior applications since 2012 to provide product manufacturers, designers, contractors, and architects with a new material class. It's a truly durable, stable and versatile panel requiring no supplemental protection to maintain decay resistance or dimensional stability.

DURABLE

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

DIMENSIONALLY STABLE

Swelling and shrinking dramatically reduced

50 YEAR WARRANTY

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

DESIGN FREEDOM

All the design, machining and assembly flexibility of medium density fiberboard

IDEAL FOR COATING

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

LOWER MAINTENANCE COSTS

Extended periods between exterior coatings maintenance

FUNGAL RESISTANCE

Effective barrier to fungal decay

NO ADDED FORMALDEHYDE

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

SUSTAINABLY SOURCED

Sustainably sourced FSC® certified

SUPPLY

Tricoya is produced in the following standard panel size*

6mm 1220x2440, 3050 & 3660
9mm 1220x2440, 3050 & 3660
12mm 1220x2440, 3050 & 3660
15mm 1220x2440, 3050 & 3660
18mm 1220x2440, 3050 & 3660
*Dimensions are close approximations based on conversion from metric.

Other thicknesses 5mm and 7mm may be produced upon request and typically associated with a minimum order quantity.

EQUILIBRIUM MOISTURE CONTENT

It is important to note that there is little water bound with wood in TRICOYA. Panels will have a moisture content of 3% to 5% in indoor conditions which will vary slightly with ambient humidity. Tricoya facade panels should be installed with a ventilated cavity to aid drying in service.

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 D5751 Wet Use, or other equivalent test methods. Please seek support from ancillary product suppliers for support on application.

All mechanical fasteners that may 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 utilze galvanized, coated and other metals with low corrosion resistance.

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

There are many aluminum 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.

INSECT RESISTANT

Tricoya has termite resistance equal to or better than ground contact rated CCA treated pine. Assessed in Accordance with ASTM E9 ground contact trials.

TECHNICAL SPECIFICATIONS

PROP TRICOYA TECHNICAL SPECIFICATION SHEET				THICKNESS (MM)				
Property	Range	Test Method	Units	6	9	12	15	18
Density	+/-30		kg/m3	720	720	720	720	680
Internal Bond	Min	EN 319	N/mm^2	0.80	0.80	0.80	0.80	0.80
Modulus of Rupture	Min	EN 310	N/mm^2	30.0	30.0	25.0	20.0	20.0
Modulus of Elasticity	Min	EN 310	N/mm^2	3,000	3,000	2,500	2,500	2,500
Screw Holding Face	Min	EN 320	N	-	-	-	900	900
Screw Holding Edge	Min	EN 320	N	-	-	-	700	700
Free Formaldhyde	Max	EN 120	mg/100g	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Thickness Tolerance		EN 324-1	mm	+/-0.15	+/-0.15	+/-0.15	+/-0.15	+/-0.15
Thickness Swell (24hrs)	Max	EN 317	%	2.5	2.0	2.0	1.5	1.5
Thermal Resistance		R Value	m2 K/W	0.056	0.085	0.114	0.15	0.18
Dimensional Movement								
Length / Width		EN 318	%	+/- 0.1	+/- 0.1	+/- 0.1	+/- 0.1	+/- 0.1
Thickness		EN 318	%	+/- 1.0	+/- 1.0	+/- 1.0	+/- 1.0	+/- 1.0
After Boil Test								
Internal Bond	Min	EN 319	N/mm^2	0.65	0.65	0.65	0.65	0.65