

DesignerOne[®] MR Particleboard

TECHNICAL DATA SHEET (TDS)

Descriptions	ForestOne low pressure melamine (LPM) overlaid moisture resistant particleboard is a factory manufactured laminated with one layer of melamine impregnated decorative paper on each side. This is constructed with bonding to a substrate of wood particles with a blended recipe of a moisture resistant resin formula
Sourcing	All decorative papers are responsibly sourced and available in multiple finishes and sizes. Forest One LPM Particleboard products are made using responsibly sourced materials, are PEFC certified and is Australian made
Applications	Moisture Resistant LPM is recommended for interior applications subject to high humidity conditions and is designed for interior applications such as: vanities/bathrooms, kitchen cupboards, built-in furniture, office furniture, commercial shelving, cupboard doors, and partitions
Decorative Surface Properties	Tested in compliance with AS/NZS 1859.3 meeting the relevant standards and properties required
Resistance to Wear	Typical results for all finishes within the range for solid décors (average): >300 cycles
Moisture Resistance	Complies with properties designated as specified in AS/NZS 1859.2. Refer to the table for properties
Substrate Properties	Complies with properties designated as specified in AS/NZS 1859.2. Refer to the table for properties

Properties

Specifications	Units	Thickness Range & Typical Values		
		16mm	18mm	25mm
Thickness	mm	+/- 0.3	+/- 0.3	+/- 0.3
Density	kg/m ³	>600	>600	>600
Weight	kg/m ²	9.6	10.8	15
Internal Bond	MPa	> .5	> .5	> .5
Moisture Content	%	7	7	7
Modulus of Rapture	MPa	>16	>16	>16
Modulus of Elasticity	MPa	>2500	>2500	>2500
Surface Soundness	MPa	>0.9	>0.9	>0.9
Screw Holding, Face	N	> 700	> 700	> 700
Screw Holding, Edge	N	> 700	> 700	> 700
Thickness Swell (24hr)	%	< 12	< 12	< 12
(Method A) Wet Bending Strength	MPa	>4.5	>4.5	>4.5
Formaldehyde Emission	Mg/l	<1.5 & <0.5	<1.5 & <0.5	<1.5 & <0.5

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