Trade Essentials® Particleboard MR

Trade Essentials Particleboard MR is a moisture resistant particleboard for use in areas of high humidity or areas where occasional wetting may occur. The superior performance of Particleboard MR compared to standard particleboard is due to the bonding of wood particles with a special moisture resistant resin system. Particleboard MR can be easily identified by the green dye incorporated in the core of the board.



APPLICATIONS

Trade Essentials® Particleboard MR is designed for interior use in areas of high humidity such as kitchen cupboards, bathroom vanities, laundry cupboards, shelving, or any situation where a moisture resistant particleboard is required. 33mm particleboard is used for tables, desks and bench tops.

SHEET SIZES & THICKNESSES

Trade Essentials Particleboard MR is available in a large range of sheet sizes and thicknesses. See Appendix 6.

FIRE HAZARD INDICES (Typically achieved when tested to

(Typically acriteved)	Which tested to	9
AS/NZS 1530.3)		
Indices	Result	Range
Ignitability	14	0-20
Spread of Flame	8	0-10
Heat Evolved	7	0-10
Smoke Developed	4	0-10

FIRE TEST RESULTS

Cone Calorimeter (Results when tested in accordance with AS/NZS 3837)

Classification	Result		
Group Number	3		
Average Specific	61.2 Kg/m²		
Extinction Area			

MOISTURE RESISTANCE

Complies with Wet Cyclic Test moisture resistant properties as specified in the Properties table (AS/NZS 1859.1).

Trade Essentials Particleboard MR is manufactured to meet the Australian AS/NZS standard for E1 formaldehyde emission levels (≤1.0mg/L)

Trade Essentials Particleboard MR is also available in the lower formaldehyde emission level E0 (\leq 0.5mg/L).

GREENfirst PRODUCT

Trade Essentials Particleboard MR E0 is a Greenfirst product.

PROPERTIES

(Typical physical properties when tested to AS/NZS 1859.1)						
THICKNESS						
Specification	Unit	9-12mm	13-22mm	23-33mm	>33mm	
Density	kg/m³	660	640	610	630	
Modulus of Rupture	MPa	20.0	17.0	15.5	17.5	
Modulus of Elasticity	MPa	2700	2300	2400	3000	
Internal Bond	MPa	1.00	0.80	0.70	0.60	
Surface Soundness	MPa	2.0	1.6	1.6	1.7	
Screw Holding Face	Ν	-	700	800	800	
Screw Holding Edge	Ν	-	900	900	900	
Thickness Swell 1hr	%	<5	<6	<5	<5	
Wet Bending Strength	MPa	5.5	4.5	4.5	5.5	
(Method A)						
Formaldehyde Level	mg/L	≤ 1.0	≤ 1.0	≤ 1.0	≤ 1.0	

WEIGHT

Thickness	I2mm	I6mm	18mm	25mm	33mm
kg per m²	7.8	10.4	11.5	15.5	20.1

General Site Work Notes

Appendix I. Handling & Product Application Guidelines Section 9:1

Board Product: Site Work Notes

Appendix 3. Handling & Product Application Section 9:3

Sheet Size & Thickness Availability Appendix 6

Greenfirst Product
Section 3:1