Particleboard HMR

Particleboard HMR is a highly moisture resistant particleboard for use in areas of high humidity or areas where occasional wetting may occur.

The superior performance of Particleboard HMR compared to Particleboard Standard is due to the bonding of wood particles with a special moisture resistant resin system. Particleboard HMR can be easily identified by the green dye incorporated in the core of the board.

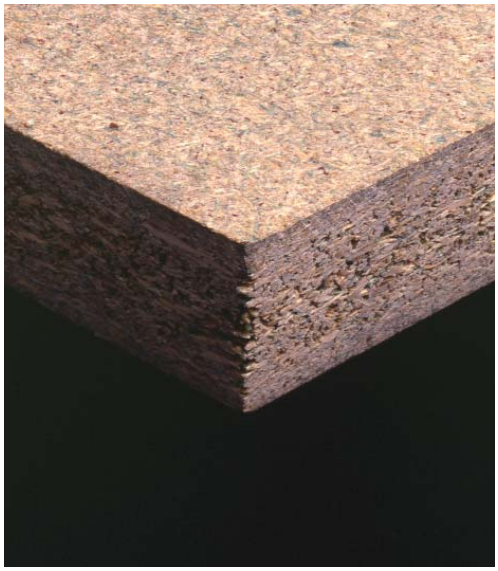
Applications

Particleboard HMR is designed for interior use for the following applications:

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.

Moisture resistance

Particleboard complies with the Wet Cyclic Test for moisture resistance properties as specified in AS/NZS1859.1: 2001(Int). Refer to Physical Properties table for details.



Physical Properties
(Typical physical properties when tested to AS/NZS 1859.1: 2001. Int)

Property		Board Thickness				
	Unit	9mm	12mm	16mm-18mm	25mm	33mm
Board Density	Kg/m^3	700	670	640	620	640
Internal Bond	KPa	700	670	580	550	550
Modulus of Rupture	MPa	19	19	19	18	18
Modulus of Elasticity	MPa	2700	2800	2600	2700	2800
*Screw Holding - Face	N	N/A	N/A	700	700	800
*Screw Holding - Edge	N	N/A	N/A	1000	900	900
Surface Soundness	MPa	1.0	1.2	1.4	1.2	1.5
Moisture Content	%	5-8	5-8	5-8	5-8	5-8
Thickness Swell 24hr	%	10 av.	9 av.	8 av.	7 av.	6 av.
Moisture Resistance	Test	V313	V313	V313	V313	V313

*Values reflect new testing methods for screw holding properties in AS/NZS 4266.13: 2001 (Int).

In most instances the performance characteristics of the particleboard exceeds the minimum requirement of AS/NZS 1859.1: 2001. However for minimum property values refer to AS/NZS 1859.1: 2001 (Int).

General Board Weight

Unit	Kg/m^2
9mm	6.3
12mm	8.0
16mm	10.2
18mm	11.5
25mm	15.5
33mm	21.1

Fire Hazard Indicies
(Typical achieved when tested to AS/NZS 1530.3 :1989)

Indicies	Result	Range
Ignitability	14	0 - 20
Spread of Flame	8	0 - 10
Heat Evolved	7	0 - 10
Smoke Developed	3	0 - 10