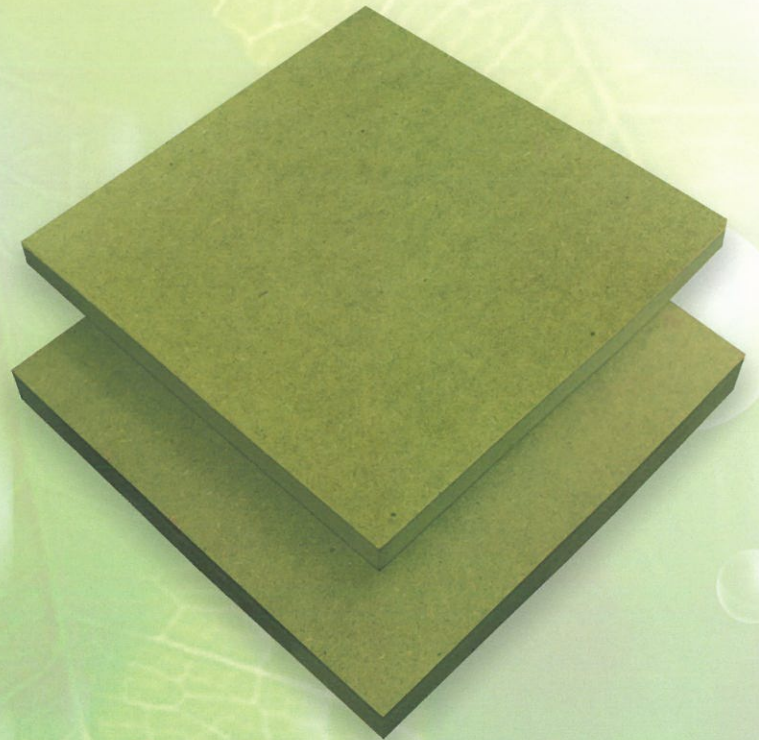




ROBIN

# HMR V313 MDF

(HIGH MOISTURE RESISTANT) MDF





## Description

- Robin HMR V313 MDF (High Moisture Resistant Medium Density Fibreboard) utilises melamine urea formaldehyde resin to enhance its physical properties to meet the stringent V313 cyclic test, in order to provide a suitable product for use in high moisture conditions.
- Main application: kitchen cabinets, skirting, mouldings, architraves, shelving, bathroom vanities and wash tubs areas.
- Not suitable for exterior application or exposure to water and prolonged high humidity such as saunas or shower cabinets.

## Wet Cyclic Test (V313)

- Wet Cyclic Test (V313) consists of a three cycle accelerated ageing treatment followed by strength testing.
- Conditioned test samples are immersed in water at 20°C for 3 days (72 hours), frozen at - 12°C for 1 day (24 hour) and oven baked at 70°C for 3 days (72 hours).
- This 3 days immersion, 1 day frozen and 3 days heated cycle is carried out 3 times (total 21 days) and then followed by post conditioning and physical testing based on test methods specified by EN 622.

## Physical and Mechanical Properties of Standard Grade Rubberwood HMR MDF

Board Property	Test Method	Unit	Range of Nominal Thickness (mm)			
			9.0	12.0	15.0 / 18.0	25.0
Density	EN 323	kg/m <sup>3</sup>	740 - 760	730 - 750	690 - 730	660 - 700
Board Moisture	EN 322	%	4 - 9	4 - 9	4 - 9	4 - 9
Modulus of Rupture	EN 310	N/mm <sup>2</sup>	32	30	28	25
Internal Bond	EN 319	N/mm <sup>2</sup>	0.70	0.70	0.65	0.60
Screw Holding (Face)*	EN 320	N	-	-	1050	1000
Screw Holding (Edge)*	EN 320	N	-	-	850	700
Thickness Swelling**	EN 317	%	12	10	8	7
Internal Bond ***	EN 321	N/mm <sup>2</sup>	0.30	0.25	0.20	0.15
Thickness Swelling***	EN 321	%	19	16	15	15
Thickness tolerance	EN 324-1	mm	+/- 0.20			
Dimension (length/width) tolerance	EN 324-1		+/- 2 mm/m; maximum +/- 5 mm			
Squareness	EN 324-2	mm/m	2			
Edge straightness	EN 324-2	mm/m	1.5			
Minor stains, fibre marks, scratch lines			Free on one side			
Latex spots			Not more than 5 spots			
Size of latex spots			Not more than 6 mm			

\* Screw holding only for thickness 15 mm and above.

\*\* 24-hour immersion in 20 (+/-1) degrees Celsius water.

\*\*\* Changes after cyclic test (V313).



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