

RT V313 HIGH DENSITY MOISTURE RESISTANT BOARD (HDMR)



- *We meet the highest moisture resistant standard V313*
- *E1 Formaldehyde Grade*
- *HDF Density > 800kg/m³*
- *Sirim Tested & Passed*



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WHY YOU SHOULD CHOOSE RT HDMR Board?

- *Highest V313 moisture resistant standard*
- *E1 Formaldehyde*
- *HDF Density > 800kg/m³*
- *SIRIM tested and passed*
- *Good resistance to fungus compared to rubberwood based boards*
- *Eco-friendly. Wood is sourced from 100% agro-forestry plantation*
- *100% hardwood eucalyptus*
- *100% latex free*
- *Ideal for painting and laminate*
- *Cost savings*

HDMR Laminated Boards

APPLICATION FOR RT HDMR BOARD

- *Door*
- *Kitchen Cabinet*
- *Wardrobe*
- *Bathroom Vanities*
- *Laundry Area*
- *All indoor high moisture area*

HDMR Boards

WHAT IS RT HDMR?



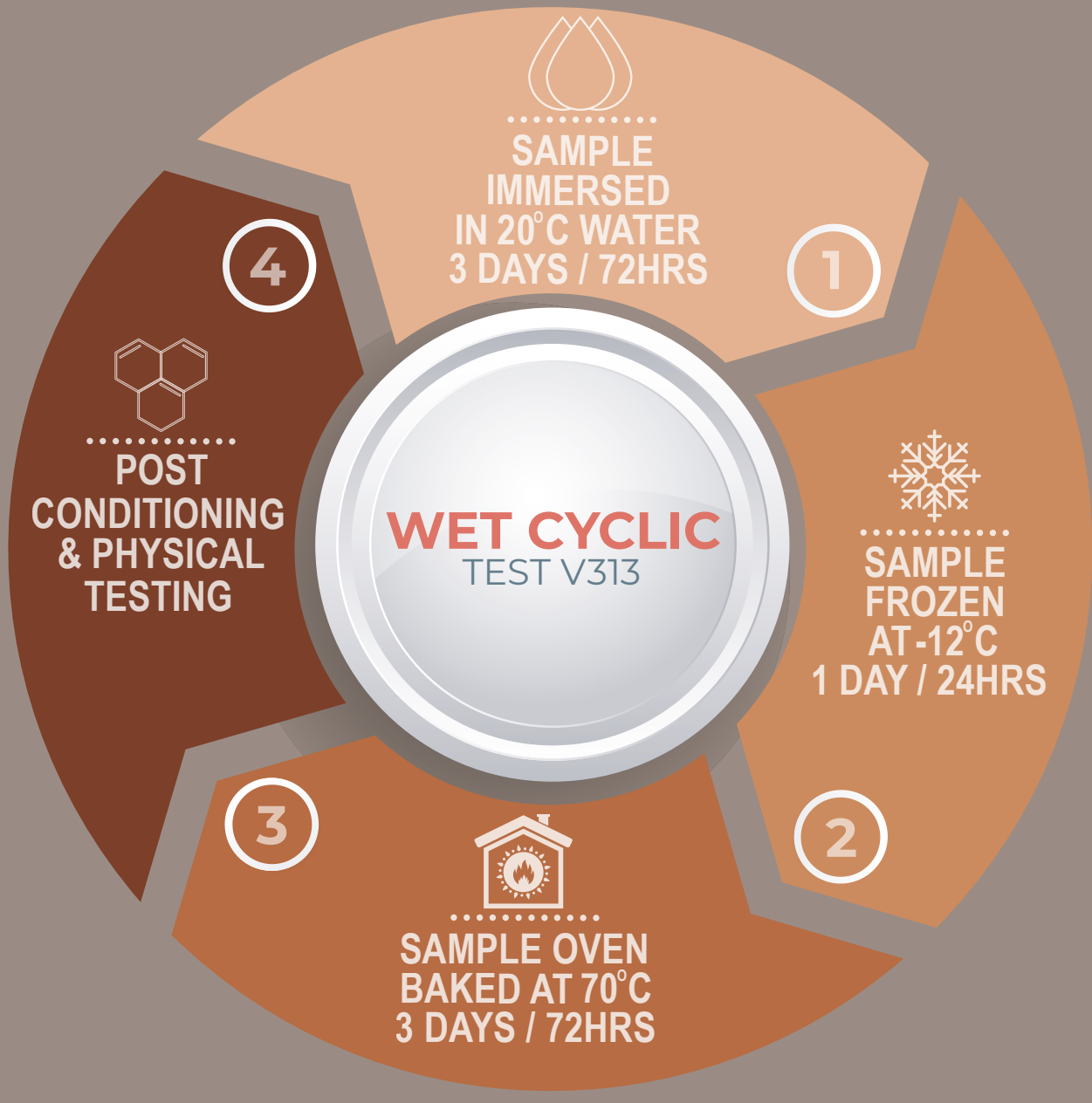
RT HDMR has all the features you are looking for...

- ✓ V313 STANDARD
- ✓ HDF DENSITY > 800 KG/M³



WHAT IS V313 STANDARD?

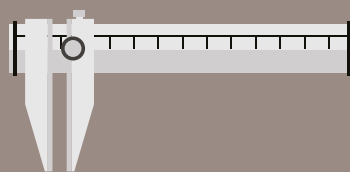
Best moisture resistant standard
BS EN 321:2002



Repeat 3x
Total 21 days



INTERNAL BONDING
 $> 0.35\text{N/mm}^2$



THICKNESS SWELLING
 $< 30\%$

WHAT IS FORMALDEHYDE?

Formaldehyde is a chemical used in some building materials and household products like flooring, furniture, doors, and fabric. It is a colourless, flammable gas at room temperature with strong irritating odour. High levels of exposure may cause cancer.



WHY CHOOSE MATERIALS THAT ARE COMPLIANT WITH E1 FORMALDEHYDE EMISSION STANDARD?

The issue of formaldehyde emission from composite wood products has been a concern since the gas was deemed carcinogenic in 2004. High exposure may trigger attacks in people with asthma. Some people can also develop a sensitivity to formaldehyde. It has also shown to cause cancer.

RT has the solution for you. RT HDMR is Grade E1 which complies with healthy and safe formaldehyde emission standard. Giving you 100% peace of mind!



★ State-Of-The-Art Manufacturing Plants ★

★ German Technology ★

★ Annual Capacity > 600,000 CBM ★

★ 100% Renewable Agro-Forestry Eucalyptus Wood ★



RT V313 HDMR vs NORMAL MOISTURE RESISTANT BOARD vs NORMAL PLYWOOD

TEST METHODS	TEST STANDARDS	RT V313 HDMR	NORMAL MOISTURE RESISTANCE BOARD	NORMAL PLYWOOD
24 hours swelling test	BS: EN 317-1:1993 Thickness Swelling : <30%	Passed	Passed	Depends on quality
V313 HMR Test	BS: EN321:1993 Thickness Swelling : <30%	Passed	Very likely not	Very likely not
	Internal Bonding : >0.2 Mpa	Passed	Very likely not	Very likely not
	SIRIM Moisture Resistant Standard Internal Bonding : >0.18 Mpa	Passed	Very likely not	Very likely not

SPECIFICATION

SI. No.	PROPERTIES	TEST METHOD	UNIT	BOARD THICKNESS	
1.0	Thickness	EN 324-1	mm	3.30	5.00
2.0	Thickness tolerance	EN 324-1		± 0.2 mm	
3.0	Length and width tolerance	EN 324-1		± 2 mm/m	
4.0	Squareness	EN 324-2		2 mm/m or 0.2%	
5.0	Edge straightness	EN 324-2		1.5 mm/m or 0.15%	
6.0	Density	EN 323	Kg/m ³	800-850	800-850
7.0	Moisture content	EN 322	%	4-8	4-8
8.0	Thickness swelling 24hr	EN 317	%	30.0	18.0
9.0	Modulus of Rupture	EN 310	N/mm ²	27.0	27.0
10.0	Modulus of Elasticity	EN 310	N/mm ²	2700	2700
11.0	Internal Bond dry	EN 319	N/mm ²	0.70	0.70
12.0	Internal Bond after AWR	EN 1087-1 & 319	N/mm ²	0.20	0.20
13.0	Internal Bond after cyclic test	EN 321 & 319	N/mm ²	0.35	0.35