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PHYSICAL PROPERTIES OF HIGH MOISTURE RESISTANT BOARD (HMR) A GRADE

PROPERTIES	TEST METHODS	UNITS	RANGES OF NORMAL THICKNESS (mm)				
			4.0	5.5 - 6.0	9.0	12.0	15.0 - 18.0
THICKNESS TOLERANCE	EN 324-1	mm	± 0.2				
DENSITY	EN 323	Kg/m ³	800 - 860	800 - 860	760 - 820	760 - 820	740 - 780
INTERNAL BONDING	EN 319	N/mm ²	≥ 1.2	≥ 1.2	≥ 1.0	≥ 0.80	≥ 0.80
SWELLING IN THICKNESS (AFTER 24 hr. SOAKING)	EN 317	%	≤ 25	≤ 18	≤ 12	≤ 10	≤ 8
MODULUS OF RUPTURE	EN 310	N/mm ²	≥ 40	≥ 40	≥ 40	≥ 38	≥ 38
MODULUS OF ELASTICITY	EN 310	N/mm ²	≥ 2900	≥ 2900	≥ 2900	≥ 2700	≥ 2600
SCREW HOLDING FACE	EN 320	N/mm ²	N/A				≥ 1000
SCREW HOLDING EDGE	EN 320	N/mm ²	N/A				≥ 700
MOISTURE CONTENT	EN 322	%	4 - 11				
WIDTH & LENGTH TOLERANCE	EN 324-1	mm	± 2.0				
STANDARD SIZE		mm	1230 x 2450				
OPTION 1 (REFERENCE BY EN622-5)							
INTERNAL BONDING AFTER CYCLIC TEST (V313)	EN 321, EN 319	N/mm ²	≥ 0.35	≥ 0.35	≥ 0.3	≥ 0.25	≥ 0.2
SWELLING IN THICKNESS AFTER CYCLIC TEST (V313)	EN 321, EN 317	%	≤ 40	≤ 25	≤ 19	≤ 16	≤ 15
FORMALDEHYDE CONTENT							
E2 CLASS	ISO 12460-5	mg/100g oven dry board	≤ 30				