

TECHNICAL DATA SHEET

RAW CHIPBOARDS JP (F****) MR

Recipe: 148

Application: Particle board with reduced formaldehyde release based on

Japanese standard JIS A 5908:2003 Type 13 M

and CNS 2215 O1012:2006 class DO 13 M F1



Mechanical properties Board mean values	Unit	Board thickness	
	[mm]	8 - 13	13 - 25
Density	[kg/m³]	Plant specific	
Internal Bond strength EN 319	[N/mm²]	0.40	
Bending strength EN 310	[N/mm²]	≥ 13	
Modulus of elasticity EN 310	[N/mm²]	≥ 2500	
Surface soundness EN 311	[N/mm²]	≥ 1,0	
Swelling in thickness 24h EN 317	[%]	≤ 12	≤ 7
Swelling in thickness MEL 24h EN 317	[%]	≤ 5	
Swelling in thickness batch	[%]	-	≤ 6
Screw holding strength (surface) CNS 2215	[N]	> 400	> 550
Moisture content *1 EN 322	[%]	5-7	
Formaldehyde content *2	[class]	F**** (0,3 mg/L)	

General Tolerances	Unit	Board thickness
	[mm]	8-25
Length and width tolerance EN 324	[mm]	±5.0
Squareness EN 324	[mm/m]	≤2.0
Edge straightness tolerance EN 324	[mm/m]	≤1.5
Thickness tolerance EN 324 (Sanded boards)	[mm]	±0.3
Tolerance on the mean density within a board EN 323	[%]	±10

Building physical properties	Unit	Board thickness
	[mm]	8-25
Fire behaviour category		
Board thickness ≥ 9 mm and density ≥ 600 kg/m ³ in line with EN13986		D-s2, d0
Board thickness < 9 mm in line with EN13986		E
Water vapour diffusion resistance value		
Mean density 600 kg/m ³		μ moist 15 μ dry 50
Mean density 900 kg/m ³		20 50
Thermal conductivity EN 13986		
Mean density 600 kg/m ³	W/(m*K)	0.12
Mean density 900 kg/m ³		0.18
Air sound insulation EN 13986		
EN 13986		$R = 13 \times \lg(m_A) + 14$ (m_A = board surface weight kg/m ²)
Sound absorption EN 13986		
Frequency range		0.10
250 Hz to 500 Hz		0.25
1000 Hz to 2000 Hz		
Biological durability EN 13986		
EN 335-3		Hazard category 1 (no earth contact , dry 20°/65% relative humidity)
PCP content EN 13986		
EN 13986	[ppm]	< 5

*1 On delivery

*2 Formaldehyde content:
LEGA RAW CHIPBOARDS JP (F****) achieves the formaldehyde class F**** according to the Japanese standard JIS A 5908:2003. The limit value is 0.3 mg/L according to Japanese test method JIS A 1460 (Desiccator). Additionally LEGA RAW CHIPBOARDS JP (F****) reaches limit value 3.0 mg/100 over-dry board at moisture content of 6.5%