

TECHNICAL DATA SHEET

EUROSPAN® E1 MR



Recipe: 116

Application: Moisture-resistant (MR) base particle board for interior fitments (including furniture) for use in wet conditions.

Board type meets the swelling requirements of P3 in line with EN 312

Mechanical properties Board mean values	Unit	Board thickness				
	[mm]	8-13	13-20	20-25	25-32	32-40
Density	[kg/m ³]	Plant specific				
Internal Bond strength EN 319	[N/mm ²]	0.45	0.45	0.40	0.35	0.3
Bending strength EN 310	[N/mm ²]	15	14	12	11	9
Modulus of elasticity EN 310	[N/mm ²]	2050	1950	1850	1700	1550
Surface soundness EN 311	[N/mm ²]	1.0				
Swelling in thickness 24h EN 317	[%]	17	14	13	13	12
Moisture content *1 EN 322	[%]	5-11				
Formaldehyde content *2 EN 120	[mg/100g]	E1				

General Tolerances	Unit	Board thickness				
	[mm]	8-13	13-20	20-25	25-32	32-40
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				
		8-13	13-20	20-25	25-32	32-40
Fire behaviour category						
Board thickness ≥ 9 mm and density ≥ 600 kg/m ³ in line with EN13986		D-s2. d0				
Board thickness < 9 mm		E				
Water vapour diffusion resistance value						
Mean density 600 kg/m ³		μ moist			μ dry	
Mean density 900 kg/m ³		15			50	
		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 x 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:

According to the "Regulation on the Prohibition of Chemicals (ChemVerbotsV)" annex to § 1, clause 3 from 14th October, 1993 in connection with the publication of the BGA in the federal health sheet 10/91 (s. 487-489) about "testing method for particleboard", uncoated particleboard must not exceed a perforator limit value EN 120 (photometrical - EN 120) of 8 mg HCHO/100g over-dry board at moisture content of 6,5 %. The flexible half-years mean value is max. 6,5 mg HCHO/100g over-dry board.

Provisional note:

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