

TECHNICAL DATA SHEET

EUROSPAN® E1 P5 V100C €

Recipe: 200

Application: Load-bearing boards for use in humid conditions.



Board type meets EN 312 standard Type 5

Mechanical properties according EN-standard	Unit	Board thickness					
		6-10	>10-13	>13-20	>20-25	>25-32	>32-40
Density	[mm]	6-10	>10-13	>13-20	>20-25	>25-32	>32-40
	[kg/m³]	Plant specific					
Internal Bond strength EN 319	[N/mm²]	0.45	0.45	0.45	0.40	0.35	0.30
Bending strength EN 310	[N/mm²]	18	18	16	14	12	10
Modulus of elasticity EN 310	[N/mm²]	2550	2550	2400	2150	1900	1700
Surface soundness EN 311	[N/mm²]	1.0					
Swelling in thickness, 24h EN 317	[%]	13	11	10	8	8	8
Internal Bond after cyclic test EN 312	[N/mm²]	0.25	0.25	0.22	0.20	0.17	0.15
Swelling in thickness after cyclic test EN 312	[%]	12	12	12	11	10	9
Moisture content *1 EN 322	[%]	4-7	4-7	5-7	5-7	5-7	5-7
Formaldehyde content *2 EN 120	[mg/100g]	E1					

General tolerances	Unit	Board thickness					
		6-10	>10-13	>13-20	>20-25	>25-32	>32-40
Tolerance on the mean density within a board EN 323	[%]	±10					
Thickness tolerance EN 324 Sanded boards	[mm]	±0.3					
Length and width tolerance EN 324	[mm]	±5.0					
Edge straightness tolerance EN 324	[mm/m]	±1.5					
Squareness EN 324	[mm/m]	≤ 2.0					

Building physical properties	Unit	Board thickness					
		6-10	>10-13	>13-20	>20-25	>25-32	>32-40
Fire behaviour category							
Board thickness \geq 9 mm and density \geq 600 kg/m ³ in line with EN 13986		D-s2, d0 D _{FL} – s1 (Class for flooring)					
Water vapour diffusion resistance value EN 13986							
Mean density 600 kg/m ³		μ moist			μ dry		
Mean density 900 kg/m ³		12			20		
		20			30		
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							
250 Hz to 500 Hz		0.10					
1000 Hz to 2000 Hz		0.25					
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 in line with EN 120

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 (photometrical) 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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