

Particleboard P2 BE.YOND

Application

Low-emission core board for surface coatings used in furnishings and interior design. The panels are suitable for non-load-bearing applications on floors, walls, and ceilings. Unrestricted compatibility with Minergie ECO.

Technical class

Formaldehyde-free bonded particle board for interiors (including furnishing) for use in dry areas, type P2 (EN 312).



Technical Specifications

Properties							Unit	Standard
Material thickness	8	16	18	19	22	25	mm	
Certificate Code	P2-BY	P2-BY	P2-BY	P2-BY	P2-BY	P2-BY		
Density min	690	640	640	640	610	610	kg/m ³	EN 323
Density max	750	690	690	690	640	640	kg/m ³	EN 323
Internal bond strength	0.4	0.35	0.35	0.35	0.3	0.3	N/mm ²	DIN EN 319
Bending strength	11	11	11	11	10.5	10.5	N/mm ²	DIN EN 310
Modulus of elasticity	1800	1600	1600	1600	1500	1500	N/mm ²	DIN EN 310
Surface soundness	0.8	0.8	0.8	0.8	0.8	0.8	N/mm ²	DIN EN 311
Formaldehyde emission (ppm) E1	≤ 0.01	≤ 0.01	≤ 0.01	≤ 0.01	≤ 0.01	≤ 0.01	ppm	EN 717-1
Formaldehyde emission (ppm) CARB II / TSCA Title VI	≤ 0.02	≤ 0.02	≤ 0.02	≤ 0.02	≤ 0.02	≤ 0.02	ppm	ASTM D-6007
Final surface sanding (Grit size)	100	100	100	100	100	100		
Pentachlorophenol (PCP)	< 5	< 5	< 5	< 5	< 5	< 5	mg/kg	CEN/TR 14823
Lindane	0	0	0	0	0	0	mg/kg	
Reaction to fire (EU)	E	D-s2, d0	D-s2, d0	D-s2, d0	D-s2, d0	D-s2, d0		DIN EN 13986
Thermal conductivity	0.15	0.13	0.13	0.13	0.13	0.13	W/(mK)	DIN EN 13986
Water vapour resistance (humid)	17	16	16	16	15	15		DIN EN 13986
Water vapour resistance (dry)	50	50	50	50	50	50		DIN EN 13986
Airborne sound insulation	25	27	27	27	29	29	dB	DIN EN 13986

Tolerances

Properties							Unit	Standard
Material thickness	8	16	18	19	22	25	mm	
Thickness tolerance	± 0.3	± 0.3	± 0.3	± 0.3	± 0.3	± 0.3	mm	EN 324-1
Length tolerance	± 5	± 5	± 5	± 5	± 5	± 5	mm	EN 324-1
Width tolerance	± 5	± 5	± 5	± 5	± 5	± 5	mm	EN 324-1
Edge straightness	1.5	1.5	1.5	1.5	1.5	1.5	mm/m	EN 324-2
Squareness	2	2	2	2	2	2	mm/m	EN 324-2
Moisture content Min	5	5	5	5	5	5	%	EN 322
Moisture content Max	13	13	13	13	13	13	%	EN 322
Tolerance density	± 10	± 10	± 10	± 10	± 10	± 10	%	EN 323