

TECHNICAL DATA SHEET

EGGER MDF-MBP-L E1 CE

Recipe: 513

Application: This is a board that has particularly good deep milling properties due to a fine fibre quality (MB). It is more densely compacted, significantly improved with regard to its resistance to cracking and its conductivity has been increased through the addition of a halogen-free conductivity additive (L). This type of board is particularly suited for coating processes with powder coating.



Board type meets EN 622-5 standard

Mechanical properties Board mean values	Unit	Board thickness		
		>12 - 19	>19 - 30	>30 - 40
Density	[kg/m ³]	Plant specific		
Internal Bond strength EN 319	[N/mm ²]	≥ 1,0	≥ 0,85	≥ 0,75
Bending strength EN 310	[N/mm ²]	≥ 28	≥ 24	≥ 19
Modulus of elasticity EN 310	[N/mm ²]	≥ 2900	≥ 2500	≥ 2100
Swelling in thickness 24h EN 317	[%]	≤ 8	≤ 7	≤ 6
Surface soundness EN 311	[N/mm ²]	≥ 1,2		
Screw withdrawal surface	[N]	≥ 1250		
Screw withdrawal edge	[N]	≥ 1080	≥ 1000	≥ 940
Sand content	[%]	≤ 0,02		
Moisture content *1 EN 322	[%]	6±1		
Surface absorption	[mm]	180		
Formaldehyde content *2 EN 120	[mg/100g]	E1		
Surface resistance Rs *3	[Ω]	ca. 1x 10 ¹⁰		
Volume resistance Ro	[Ω]	ca. 1x 10 ¹⁰		

General tolerances	Unit	Board thickness		
		>12 - 19	>19 - 30	>30 - 40
Length tolerance EN 324	[mm]	±2,0mm/m, maximum ±5,0		
Width tolerance EN 324	[mm]	±2,0mm/m, maximum ±5,0		
Squareness EN 324	[mm/m]	≤2,0		
Edge straightness EN 324	[mm/m]	≤1,5		
Thickness tolerance EN 324	[mm]	±0,2	±0,3	±0,3
Standard sanding		K220		
Bowing	[mm/m]	< 1,5 mm		

Building physical properties	Unit	Board thickness		
	[mm]	>12 - 19	>19 - 30	>30 - 40
Fire behaviour category				
Board thickness \geq 9 mm and density \geq 600 kg/m ³ in line with EN 13986		D-s2, d0		
Water vapour diffusion resistance value EN 13986				
		μ moist	μ dry	
Mean density 600 kg/m ³		12	20	
Mean density 800 kg/m ³		20	30	
Thermal conductivity EN 13986				
Mean density 600 kg/m ³	W/(m·K)	0,10		
Mean density 800 kg/m ³		0,14		
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				
250 Hz bis 500 Hz		0,10		
1000 Hz bis 2000 Hz		0,20		
Biological durability EN 13986				
EN 335-3		Harzard 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 MDF board 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. 7 mg HCHO/100g over-dry board.

*3 Surface resistance Rs

The noted value of electrical resistance Rs is valid for boards with Moisture content \geq 5%. By lower Moisture content is the electrical resistance negative affected.

Provisional note:

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