

TECHNICAL DATA SHEET

EGGER MDF-ST E1 CE

Recipe: 500

Application: Base particle board for interior fitments (including furniture) for use in dry conditions.



Board type meets EN 622-5 standard

Mechanical properties Board mean values	Unit	Board thickness				
		>6 - 9	>9 - 12	>12 - 19	>19 - 30	>30 - 40
	[mm]	>6 - 9	>9 - 12	>12 - 19	>19 - 30	>30 - 40
Density	[kg/m ³]	plant specific				
Internal Bond strength EN 319	[N/mm ²]	>0.65	>0.60	>0.55	>0.55	>0.50
Bending strength EN 310	[N/mm ²]	>23	>22	>20	>18	>17
Modulus of elasticity EN 310	[N/mm ²]	>2700	>2500	>2200	>2100	>1900
Swelling in thickness 24h EN 317	[%]	<17	<15	<12	<10	<8
Surface soundness EN 311	[N/mm ²]	>1.0				
Screw withdrawal surface	[N]			>1080	>1080	>1080
Screw withdrawal edge	[N]			>900	>810	>750
Sand content	[%]	<0.02				
Moisture content *1 EN 322	[%]	6±2				
Surface absorption	[mm]	>210				
Formaldehyde content *2 EN 120	[mg/100g]	E1				

General tolerances	Unit	Board thickness				
		>6 - 9	>9 - 12	>12 - 19	>19 - 30	>30 - 40
	[mm]	>6 - 9	>9 - 12	>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	±0.2	±0.2	±0.3	±0.3
Standard sanding		K150				

Building physical properties	Unit	Board thickness				
		>6 - 9	>9 - 12	>12 - 19	>19 - 30	>30 - 40
Fire behaviour category						
Board thickness < 9 mm		class E				
Board thickness ≥ 9 mm and density ≥ 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 x 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.

Provisional note:

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