

TECHNICAL DATA SHEET

EGGER MDF-ST E1 EPF-S CARB2

Recipe 504

Application: Base standard particleboard with reduced formaldehyde release 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
Density	[kg/m³]	Plant specific				
Internal Bond strength EN 319	[N/mm²]	›0,72	›0,72	›0,67	›0,67	›0,54
Bending strength EN 310	[N/mm²]	›40	›35	›31	›26	›22
Modulus of elasticity EN 310	[N/mm²]	›3000	›2800	›2700	›2600	›2400
Swelling in thickness 24h EN 317	[%]	‹15	‹13	‹10	‹8	‹7
Surface soundness EN 311	[N/mm²]	›1,0				
Screw withdrawal surface	[N]	≥750	≥730	≥730	≥700	≥690
Screw withdrawal edge	[N]	›0,72	›0,72	›0,67	›0,67	›0,54
Sand content	[%]	‹0,02				
Moisture content *1 EN 322	[%]	6±2				
Surface absorption	[mm]	›210				
Formaldehyde content *2 EN 120	[mg/100g]	E1 EPF-S				

General tolerances	Unit	Board thickness				
	[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				
	[mm]	>6 - 9	>9 - 12	>12 - 19	>19 - 30	>30 - 40
Fire behaviour category						
Classification report Fire behaviour in line with EN 13501-1 (<9 mm) Fire behaviour in line with EN 13501-1 (≥9 mm)		class E D-s2, d0				
Water vapour diffusion resistance value						
		μ moist		μ dry		
Mean density 600 kg/m³		12		20		
Mean density 800 kg/m³		20		30		
Thermal conductivity EN 12524						
Mean density 600 kg/m³	W/(m·K)	0,10				
Mean density 800 kg/m³		0,14				
Air sound insulation EN 13986						
EN 13986		R = 13 x lg(m _A) + 14 (m _A = board surface weight kg/m²)				
Sound absorption EN 13986 table 10						
Frequency range		0,10				
250 Hz bis 500 Hz		0,20				
1000 Hz bis 2000 Hz						
Biological durability EN 13986						
EN 335-3		Harzard category 1 (no earth contact , dry 20º/65% relative humidity)				
PCP content EN 13986						
EN 13986	[ppm]	<5				

*1 On delivery

*2 Formaldehyde content - regulatory and voluntary regulation:

2:1 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.

2:2 According to the California Air Resources Board (CARB) regulation CCR-17-93120.2(a) complies with Phase 1 and Phase 2.

2:3 According to the IKEA formaldehyde specification IOS M AT 0003, version AA-10899-9 uncoated MDF board must not exceed a perforator limit value (photometrical) of 5 mg HCHO/100g over-dry board at moisture content of 6,5 %.

Provisional note:

This technical data sheet has been carefully drawn up to the best of our knowledge. We accept no liability for any mistakes, errors in standards or printing errors. In addition, technical modifications can result from the continuous further development, as well as from changes in standards and documents originating from statutory bodies. The contents of this technical leaflet should therefore not be considered as instructions for use or as legally binding.