

# TECHNICAL DATA SHEET

## EGGER MDF Flammex E1 CARB2 B C E

Recipe: 518

Low flammability board for general purposes in dry conditions, mainly for interior fitments (including furniture). Very good surface neutrality and high elastomechanical properties.



### Board type meets EN 622-5 standard

Mechanical properties Board mean values	Unit	Board thickness		
	[mm]	>9 - 12	>12 - 19	>19 - 30
Density	[kg/m <sup>3</sup> ]	750		
Internal Bond strength EN 319	[N/mm <sup>2</sup> ]	>0.60	>0.55	>0.55
Bending strength EN 310	[N/mm <sup>2</sup> ]	>22	>20	>18
Modulus of elasticity EN 310	[N/mm <sup>2</sup> ]	>2500	>2200	>2100
Swelling in thickness 24h EN 317	[%]	<15	<12	<10
Surface soundness EN 311	[N/mm <sup>2</sup> ]	>1.0		
Screw withdrawal surface	[N]		>1080	>1080
Screw withdrawal edge	[N]		>900	>810
Sand content	[%]	<0.02		
Moisture content *1 EN 322	[%]	6±2		
Formaldehyde content *2 EN 120	[mg/100g]	E1 CARB2		

General tolerances	Unit	Board thickness		
	[mm]	>9 - 12	>12 - 19	>19 - 30
Length tolerance EN 324	[mm]	±2.0mm/m, max. ±5.0		
Width tolerance EN 324	[mm]	±2.0mm/m, max. ±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	±0.3
Standard sanding		K150		

Building physical properties	Unit	Board thickness		
		>9 - 12	>12 - 19	>19 - 30
<b>Fire behaviour category</b>				
Classification Report Fire behaviour according EN 13 501-1(≥12 mm)		B-s1, d0		
<b>Surface fire behavior according ASTM / NFPA 255</b>				
Flame Spread Index		10	5	5
Smoke Spread Index		45	55	55
<b>Water vapour diffusion resistance value EN 13986</b>				
Mean density 600 kg/m <sup>3</sup>		μ moist	μ dry	
Mean density 800 kg/m <sup>3</sup>		12	20	
		20	30	
<b>Thermal conductivity EN 13986 Table 11</b>				
Mean density 600 kg/m <sup>3</sup>	W/(m*K)	0.10		
Mean density 800 kg/m <sup>3</sup>		0.14		
<b>Air sound insulation EN 13986</b>				
EN 13986		$R = 13 \times \lg(m_A) + 14$ (m <sub>A</sub> = board surface weight kg/m <sup>2</sup> )		
<b>Sound absorption EN 13986 table 10</b>				
Frequency range				
250 Hz bis 500 Hz		0.10		
1000 Hz bis 2000 Hz		0.20		
<b>Biological durability EN 13986</b>				
EN 335-3		Harzard category 1 (no earth contact , dry 20%/65% relative humidity)		
<b>PCP content EN 13986</b>				
EN 13986	[ppm]	<5		

\*1 On delivery

\*2 Formaldehyde content

2:1 According to the "Regulation on the Prohibition of Chemicals (ChemVerbotsV)" annex to § 1, clause 3 from 14<sup>th</sup> October, 1993 in connection with DIBt directive the classification and monitoring of wood based materials regarding formaldehyde release from June 1994 an 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) - Phase 2.

**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.