

Technical Datasheet

MDF FLAMMEX E1E05 TSCA CE EAC

Recipe: 518

EAC (Egger Audit Controlled): Made from certified wood and controlled sources, suitable for FSC®-certified products. Certification statement (claim) on the sales documents is only on customer's request and according to availability.

Board type MDF according to EN 622-5

Mechanical properties Board mean values	Unit	Board thickness				
		>6 - 9	>9 - 12	>12 - 19	>19 - 30	>30 - 40
	[mm]					
Density EN 323	[kg/m³]	specific to plant				
Internal bond EN 319	[N/mm²]		0.60	0.55	0.55	
Bending strength EN 310	[N/mm²]		22.0	20.0	18.0	
Bending modulus of elasticity EN 310	[N/mm²]		2500	2200	2100	
Thickness swelling 24 h EN 317	[%]		15.0	12.0	10.0	
Surface soundness EN 311	[N/mm²]	1.00				
Sand content	[%]	0.02				
Board moisture* EN 322	[%]	4 - 8				
Formaldehyde emission class(es)**		E1E05, CARB2, TSCA				

General tolerances	Unit	Board thickness				
		>6 - 9	>9 - 12	>12 - 19	>19 - 30	>30 - 40
	[mm]					
Length and width tolerance EN 324	[mm]	±2,0 mm/m, max. ±5,0				
Squareness EN 324	[mm/m]	±2.0				
Edge straightness tolerance EN 324	[mm/m]	<=1.5				
Thickness tolerance EN 324	[mm]	±0.3				
Standard sanding		K150				

Building physical properties	Unit	Board thickness				
		>6 - 9	>9 - 12	>12 - 19	>19 - 30	>30 - 40
Fire behaviour category		B-s1, d0				
Water vapour diffusion resistance value						
Mean bulk density 600 kg/m ³		μ moist		μ dry		
Mean bulk density 800 kg/m ³		12		20		
		20		30		
Thermal conductivity EN 13986						
Mean bulk density 600 kg/m ³	[W/(m*K)]	0.10				
Mean bulk density 800 kg/m ³		0.14				
Air sound insulation EN 13986						
EN 13986		R = 13 x lg(mA) + 14 (mA = board weight per unit area kg/m ²)				
Sound absorption EN 13986						
Frequency range						
250 Hz bis 500 Hz		0.1				
1000 Hz bis 2000 Hz		0.2				
Biological durability EN 13986						
EN 335-3		Hazard class 1 (without earth contact, dry 20°C / 65% relative humidity)				
PCP content EN 13986						
EN 13986	[ppm]	<5				

* On delivery

** The product complies with the following emission class(es):

E1E05: According to the "Ordinance on bans and restrictions on the marketing and sale of certain substances, mixtures and products pursuant to the Chemicals Act" (ChemverbotsV), wood-based materials in Germany are subject to special requirements with regard to formaldehyde emission. Accordingly, coated and uncoated wood-based materials may not be placed on the market if the equilibrium concentration of formaldehyde in the air of a test chamber exceeds 0.1 ml/cbm (ppm). The reference method is the chamber method EN 16516. Tests according to chamber method EN 717-1 can still be carried out, but the test results must be multiplied by a factor of 2.

CARB 2: According to the California Air Resources Board (CARB) „Final Regulation Order AIRBORNE TOXIC CONTROL MEASURE TO REDUCE FORMALDEHYDE EMISSIONS FROM COMPOSITE WOOD PRODUCTS“, California Code of Regulations 93120-93120.12, title 17, article 93120.2 (a) – Phase 2 - using the chamber method according to ASTM E 1333, MDF may not exceed 0.11 ppm.

TSCA: In line with US EPA 40 CFR Part 770 "Formaldehyde Emission Standards for Composite Wood Products", Title VI to the Toxic Substances Control Act (TSCA) - 'TSCA Title VI', para 40 CFR § 770.10 (b), MDF may not exceed 0.11 ppm according to ASTM E1333 using the chamber method.

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.