TECHNICAL DATA SHEET

EGGER Thin chipboard E1 P5 B/B1 CE

Recipe: 309

Application: Low flammability certified load-bearing board for use in humid conditions

Board thickness from 3.0 mm to 10.0 mm. The production process can affect the flatness of the board

Board type in line with 312 Type 5

Mechanical properties Board mean values	Unit	Board thickness		
	[mm]	3.0 – 4.0	› 4.0 – 6.0	› 6.0 – 10.0
Density	[kg/m³]	Plant specific		
Internal Bond strength EN 319	[N/mm²]	≥ 0.65	≥ 0.6	≥ 0.6
Bending strength EN 310	[N/mm²]	≥ 20	≥ 20	≥ 19
Modulus of elasticity EN 310	[N/mm²]	≥ 2550		
Swelling in thickness 24h EN 317	[%]	≤ 13	≤ 12	≤ 11
Internal bond after boil test EN 1087-1	[N/mm²]	≥ 0.2	≥ 0.17	≥ 0.17
Moisture content *1 EN 322	[%]	5-9		
Formaldehyde content *2 EN 120	[mg/100g]	E1		

General Tolerances	Unit	Board thickness		
	[mm]	3.0 – 4.0	› 4.0 – 6.0	› 6.0 – 10.0
Length and width tolerance EN 324	[mm]	±2.0		
Squareness EN 324	[mm/m]	±1.5		
Edge straightness tolerance EN 324	[mm/m]	≤1.5		
Thickness tolerance EN 324 (Sanded boards)	[mm]	±0.3		
Tolerance on the mean density within a board EN 323	[%]	±10		

Building physical properties	Unit	Board thickness		
	[mm]	3.0 – 4.0	› 4.0 – 6.0	› 6.0 – 10.0
Fire behaviour category				
According EN 13501-1 Classification report KB-Hoch -090545	[class]	B-s2 d0		
Water vapour diffusion resistance value EN 13986				
		µ moist	µ dry	
Mean density 600 kg/m³		15	50	
Mean density 900 kg/m³		20	50	
Thermal conductivity EN 13986				
Mean density 600 kg/m³ Mean density 900 kg/m³	[W/(m*K)]	0.12 0.18		
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				
Frequency range 250 Hz to 500 Hz 1000 Hz to 2000 Hz		 0.10 0.25		
Biological durability EN 13986				
EN 335-3		Hazard 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 particleboard must not exceed a perforator limit value EN 120 (photometrical - EN 120) of 8 mg HCHO/100g over-dry board at moisture content of 6,5 %. The flexible half-years mean value is max. 6,5 mg HCHO/100g over-dry board.

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.