

# TECHNICAL DATA SHEET

## EGGER Thinchipboard E1 EPF-S P2

Recipe: 180

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



### Board type in line with EN 312-2

Mechanical properties Board mean values	Unit	Board thickness		
	[mm]	2.8 – 4.0	> 4.0 – 6.0	> 6.0 – 8.0
<b>Density</b>	[kg/m <sup>3</sup> ]	Plant specific		
<b>Internal Bond strength EN 319</b>	[N/mm <sup>2</sup> ]	≥ 0.7	≥ 0.6	≥ 0.55
<b>Bending strength EN 310</b>	[N/mm <sup>2</sup> ]	≥ 18	≥ 18	≥ 18
<b>Modulus of elasticity EN 310</b>	[N/mm <sup>2</sup> ]	≥ 2000	≥ 2000	≥ 2000
<b>2h Swelling in Thickness DIN 50/50</b>	[%]	15	10	8
<b>Moisture content *1 EN 322</b>	[%]	5-9		
<b>Formaldehyde content *2 EN 120</b>	[mg/100g]	E1 EPF-S		

General Tolerances	Unit	Board thickness		
	[mm]	2.8 – 4.0	> 4.0 – 6.0	> 6.0 – 8.0
<b>Length and width tolerance EN 324</b>	[mm]	±5.0		
<b>Squareness EN 324</b>	[mm/m]	≤2.0		
<b>Edge straightness tolerance EN 324</b>	[mm/m]	≤1.5		
<b>Thickness tolerance EN 324 (Sanded boards)</b>	[mm]	± 0.3		
<b>Tolerance on the mean density within a board EN 323</b>	[%]	±10.0		

Building physical properties	Unit	Board thickness		
	[mm]	2.8 – 4.0	> 4.0 – 6.0	> 6.0 – 8.0
<b>Fire behaviour category</b>				
In line with EN13986		Class E		
<b>Water vapour diffusion resistance value</b>				
		$\mu$ moist	$\mu$ dry	
Mean density 600 kg/m <sup>3</sup>		15	50	
Mean density 900 kg/m <sup>3</sup>		20	50	
<b>Thermal conductivity EN 13986</b>				
Mean density 600 kg/m <sup>3</sup>	W/(m*K)	0.12		
Mean density 900 kg/m <sup>3</sup>		0.18		
<b>Air sound insulation EN 13986</b>				
EN 13986		$R = 13 \times \lg(m_A) + 14$ ( $m_A$ = board surface weight kg/m <sup>2</sup> )		
<b>Sound absorption EN 13986</b>				
Frequency range				
250 Hz to 500 Hz		0.10		
1000 Hz to 2000 Hz		0.25		
<b>Biological durability EN 13986</b>				
EN 335-3		Hazard 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 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.
- 2:2** According to the EPF (European Panel Federation) uncoated particleboard with reduced formaldehyde release must not exceed perforator limit value (photometrical – EN 120) of 4 mg HCHO/100g over-dry board at moisture content of 6,5 %.
- 2:3** According to the California Air Resources Board (CARB) regulation CCR-17-93120.2(a) - Phase 2.
- 2:4** According to 2:2 and 2:3 the raw particleboard corresponds to the IKEA formaldehyde specification IOS MAT 0003, version AA-10899-9.
- 2:5** Coated particleboard with reduced formaldehyde release – perforator limit value (photometrical - EN 120) of 5,0 mg/100g over-dry board at moisture content of 6,5 %.

**Provisional note:**

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