

# TECHNICAL DATA SHEET

EUROSPAN® FLAMMEX E1 P2 B/B1/M1 

Recipe: 301

Application: Low flammability board for general purposes in dry conditions



Plant: Rambervillers (F)

## Board type P2 in line with EN-312

Mechanical properties Board mean values	Unit	Board thickness				
		>12-13	>13-20	>20-25	>25-32	>32-38
Density	[kg/m³]	740	700-740	680-700	660-680	640-680
Internal Bond strength EN 319	[N/mm²]	0.40	0.35	0.30	0.25	0.20
Bending strength EN 310	[N/mm²]	11	11	10.5	9.5	8.5
Modulus of elasticity EN 310	[N/mm²]	1800	1600	1500	1350	1200
Surface soundness EN 311	[N/mm²]	1.0				
Moisture content *1 EN 322	[%]	5-10				
Formaldehyde content *2 EN 120	[mg/100g]	E1				

General Tolerances	Unit	Board thickness				
		>12-13	>13-20	>20-25	>25-32	>32-38
Length and width tolerance EN 324	[mm]	±5.0				
Squareness EN 324	[mm/m]	≤2.0				
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]	> 12-13	>13-20	>20-25	>25-32	>32-38
<b>Fire behaviour category</b>						
DIN EN 13501-1 DIN 4102 (DIBT Z-56.275-3524) BS 476 Part 7		B-s1, d0 B1 Class 1				
<b>Water vapour diffusion resistance value</b>						
Mean density 600 kg/m <sup>3</sup> Mean density 900 kg/m <sup>3</sup>	[%]	μ moist		μ dry		
		15		50		
		20		50		
<b>Thermal conductivity EN 13986</b>						
Mean density 600 kg/m <sup>3</sup> Mean density 900 kg/m <sup>3</sup>	[W/(m*K)]	0.12 0.18				
<b>Air sound insulation EN 13986</b>						
EN 13986		R = 13 x lg(m <sub>A</sub> ) + 14 (m <sub>A</sub> = board surface weight kg/m <sup>2</sup> )				
<b>Sound absorption EN 13986</b>						
Frequency range 250 Hz to 500 Hz 1000 Hz to 2000 Hz		0.10 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:

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.

**Provisional note:**

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