

Technical data sheet

Eurospan EAC E1 EPF-S CARB2/TSCA P2

Recipe: 181

Base particle board with reduced formaldehyde content for interior fitments and furnitures in dry conditions.

Wood origin: Egger Audit controlled (EAC)

Board type P2 in line with EN 312

Mechanical properties Board mean values	Unit	Board thickness				
		>6 - 13	>13 - 20	>20 - 25	>25 - 32	>32 - 40
Density EN 323	[kg/m³]	plant-specific				
Internal Bond EN 319	[N/mm²]	0.40	0.35	0.30	0.25	0.20
Bending strength EN 310	[N/mm²]	11.0	11.0	10.5	9.5	8.5
Modulus of elasticity EN 310	[N/mm²]	1800	1600	1500	1350	1200
Surface soundness EN 311	[N/mm²]	0.95				
Moisture content * EN 322	[%]	4 - 13				
Formaldehyde emission **	[class]	E1, EPFS, CARB2, TSCA				

General tolerances	Unit	Board thickness				
		6 - 13	13 - 20	20 - 25	25 - 32	32 - 40
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	[mm]	±0.3				
Tolerance on the mean density EN 323	[%]	±10				



Building physical properties	Unit	Board thickness				
		6 - 13	13 - 20	20 - 25	25 - 32	32 - 40
Fire behaviour category						
EN 13986 (>9 mm) and density $\geq 600 \text{ kg/m}^3$		D-s2, d0				
Water vapour diffusion resistance value						
Mean density 600 kg/m^3		μ moist		μ dry		
Mean density 900 kg/m^3		15		50		
		20		50		
Thermal conductivity EN 13986						
Mean density 600 kg/m^3	[W/(m*K)]	0.12				
Mean density 900 kg/m^3		0.18				
Air sound insulation EN 13986						
EN 13986		$R = 13 \times \lg(\text{mA}) + 14$ (mA = board surface weight [kg/m^2])				
Sound absorption EN 13986						
Frequency range						
250 Hz to 500 H		0.10				
1000 Hz to 2000 Hz		0.25				
Biological durability EN 13986						
EN 335-3		Hazard category 1 (no earth contact , dry $20^\circ\text{C}/65\%$ relative humidity)				
PCP content EN 13986						
EN 13986	[ppm]	<5				

* On delivery

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

E1: According to the "Regulation on the Prohibition of Chemicals (Chem/VerbotsV)" from October 1993 along with the "Regulation on the classification and external supervision of wood-based panels regarding formaldehyde emission (DIBt - Guideline 100) dated June 1994, unfaced particleboard must not exceed a perforator value (photometric) of 8 mg HCHO/100g oven dry board at a moisture content of 6.5 %. The rolling average of EN ISO 12460-5 values over a period of year is max. 6.5 mg HCHO/100g panel mass.

EPF-S: According to EPF (European Panel Federation) dated January 2016, EPF-S boards with reduced formaldehyde emissions according to EN 717-1 using the chamb method may not exceed a limit value of 0,065 ppm (mean value).

CARB 2: According to des 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, Artikel 93120.2 (a) - Phase 2 - ASTM E 1333 using the chamber method, chipboard may not exceed 0.09 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), chipboards may not exceed 0.09 ppm according to ASTM D 6007 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.

