TDHEX225 - EN - Technical Data Sheet

EUROSPAN® EAC E1 P5 CE

Recipe: 225

Application: Load-bearing boards for use in humid conditions.

Used as the core board in the following EGGER Products:

- EGGER Protect
- EGGER Peel Clean Xtra

P5-Board manufactured in accordance with EN 312

General Requirement at dispatch	Test Method	Unit	Thickness range [mm]				
			6 - 13	>13 - 20	>20 - 25	>25 - 32	>32 - 40
Thickness tolerance (sanded board)	EN 324-1	[mm]	± 0.3				
Length and width tolerance	EN 324-1	[mm]	± 5.0				
Squareness tolerance	EN 324-2	[mm/m]	≤2.0				
Edge straightness tolerance	EN 324-2	[mm/m]	≤1.5				
Moisture content *	EN 322	[%]	5 - 13				
Tolerance on the mean density within a board	EN 323	[%]	± 10				
Formaldehyde content **	ISO 12460-5	[mg/100g]	Class E1				

Mechanical Property	Test Method	Unit	Thickness range [mm]				
			10 - 13	>13 - 20	>20 - 25	>25 - 32	>32 - 40
Internal Bond	EN 319	[N/mm²]	0.45	0.45	0.40	0.35	0.30
Bending Strength	EN 310	[N/mm²]	18	16	14	12	10
Modulus of Elasticity	EN 310	[N/mm²]	2550	2400	2150	1900	1700
Swelling in thickness, 24h	EN 317	[%]	11	10	10	10	9
Moisture resistance requirements – *Option 1 after cyclic test*							
Internal Bond	EN 321	[N/mm²]	0.25	0.22	0.20	0.17	0.15
Swelling in thickness	EN 321	[%]	12	12	11	10	9
Moisture resistance requirements – *Option 2 after boil test*							
Internal Bond	EN 1087-1	[N/mm²]	0.15	0.14	0.12	0.11	0.10

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Physical properties according to EN 13986	Unit	Requirement per thickness range [mm]				
		>6-13	>13-20	>20-25	>25-32	>32-40
Reaction to fire (Density ≥ 600 kg/m³)***						
Without air gap behind the board		E	D -s2, d0	D-s2, d0	D-s2, d0	D-s2, d0
With closed or open air gap ≤ 22 mm behind the board		E	D-s2, d2	D-s2, d2	D-s2, d2	D-s2, d2
With closed air gap > 22 mm behind the board		E	E	D-s2, d0	D-s2, d0	D-s2, d0
With open air gap > 22 mm behind the board		E	E	D-s2, d0	D-s2, d0	D-s2, d0
Water vapour resistance factors						
		μ moist		μ dry		
Mean density 600 kg/m³		15		50		
Mean density 900 kg/m³		20		50		
Thermal conductivity						
Mean density 600 kg/m³	[W/(m*K)]	0.12				
Airborne sound insulation						
Only valid for the frequency range of 1kHz to 3 kHz and at surface mass >5 kg/m²	[dB]	$R = 13 \times \lg(m_A) + 14$ (m_A = board surface mass kg/m²)				
Sound absorption coefficient						
Frequency range [Hz]						
250 to 500	[-]	0.10				
1000 to 2000		0.25				
Biological durability (EN 335-3)						
(no earth contact , dry 20°C/ 65% relative humidity)		Hazard category 1				
PCP content	[ppm]	< 5				

* **On delivery**

** **Formaldehyde content - Class E1:**
According to the "Regulation on the Prohibition of Chemicals (ChemVerbotsV)" 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, un-faced 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 120 values over a period of ½ year is max. 6.5 mg HCHO/100g panel mass.

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.

*** **For floorings:**

D-s2, d0	= D_{fl}-s1
E	= Efl
D-s2, d2	= n/a