

FIBRANOR H E-Z / FIBRAPAN H E-Z / IBERPAN H E-Z

TECHNICAL DATA-AVERAGE VALUES

Rev: 05/12/2019

PROPERTIES	TEST METHOD	UNITS	THICKNESSES mm							
			>2.5/4	>4/6	>6/9	>9/12	>12/19	>19/30	>30/45	>45/60
DENSITY (*)	EN 323	kg/m ³	880/860	855/830	825/770	765/745	745/730	730/715	730/675	700/650
INTERNAL BOND	EN 319	N/mm ²	0.90	0.85	0.80	0.80	0.75	0.75	0.70	0.60
BENDING STRENGTH	EN 310	N/mm ²	27	27	27	26	24	22	21	19
MODULUS OF ELASTICITY	EN 310	N/mm ²	2700	2700	2700	2500	2400	2300	2300	2200
THICKNESS SWELLING 24 H	EN 317	%	30	18	12	10	8	7	7	6
DIMENSIONAL MOVEMENT LENGTH/WIDTH	EN 318	%	0.4	0.4	0.4	0.4	0.3	0.3	0.2	0.2
DIMENSIONAL MOVEMENT THICKNESS	EN 318	%	6	6	6	6	5	5	4	4
SURFACE SOUNDNESS	EN 311	N/mm ²	>1.2	>1.2	>1.2	>1.2	>1.2	>1.2	>1.2	>1.2
SURFACE ABSORPTION (TWO FACES)	EN 382-1	mm	>150	>150	>150	>150	>150	>150	>150	>150
MOISTURE CONTENT	EN 322	%	7+/-3	7+/-3	7+/-3	7+/-3	7+/-3	7+/-3	7+/-3	7+/-3
GRIT CONTENT	ISO 3340	% Weight	≤ 0.05	≤ 0.05	≤ 0.05	≤ 0.05	≤ 0.05	≤ 0.05	≤ 0.05	≤ 0.05
FORMALDEHYDE EMISSION	EN 717-1	ppm	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
REACTION TO FIRE TABLA 8 EN 13986:2004+A1:2015 I	EN 13501-1	Class	E	E	E	D-s2,d0 (**)	D-s2,d0 (***)	D-s2,d0	D-s2,d0	D-s2,d0
SWELLING IN THICKNESS AFTER CYCLIC TEST (V313)	EN 321 / EN 317	%	40	25	19	16	15	15	15	15
INTERNAL BOND AFTER CYCLIC TEST (V313)	EN 321 / EN 319	N/mm ²	0,35	0,35	0,30	0,25	0,20	0,15	0,10	0,10
SOUND ABSORPTION COEFFICIENT (A) (250 A 500 HZ)	EN 13984:2004+A1:2015	α	0,10	0,10	0,10	0,10	0,10	0,10	0,10	0,10
SOUND ABSORPTION COEFFICIENT (A) (1000 A 2000 HZ)	EN 13984:2004+A1:2015	α	0,20	0,20	0,20	0,20	0,20	0,20	0,20	0,20
THERMAL CONDUCTIVITY	EN 13984:2004+A1:2015	W/ (m·K)	0,15	0,15	0,14	0,13	0,12	0,12	0,12	0,11
AIRBORNE SOUND INSULATION (SURFACE MASS) (R)	EN 13986:2004+A1:2015	db	NPD	NPD	25	25	28	30	32	34
WATER VAPOUR PERMEABILITY DRY CUP	EN 13986:2004+A1:2015	μ	31	30	28	27	25	24	24	23
WATER VAPOUR PERMEABILITY WET CUP	EN 13986:2004+A1:2015	μ	21	20	18	17	16	15	15	14
BIOLOGICAL DURABILITY USE	EN 13986:2004+A1:2015	Class of use	1 y 2	1 y 2	1 y 2	1 y 2	1 y 2	1 y 2	1 y 2	1 y 2
CONTENT OF PENTACHLOROPHENOL (PCP)	EN 13986:2004+A1:2015	ppm	<5	<5	<5	<5	<5	<5	<5	<5

TOLERANCE ON NOMINAL DIMENSIONS

PROPERTIES	TEST METHOD	UNITS	THICKNESSES mm							
			>2.5/4	>4/6	>6/9	>9/12	>12/19	>19/30	>30/45	>45/60
THICKNESS	EN 324-1	mm	+/-0.15	+/-0.15	+/-0.2	+/-0.2	+/-0.2	+/-0.3	+/-0.3	+/-0.3
LENGTH/WIDTH	EN-324-1	mm	+/- 2	+/- 2	+/- 2	+/- 2	+/- 2	+/- 2	+/- 2	+/- 2
			máx +/-	máx +/-	máx +/-	máx +/-	máx +/-	máx +/-	máx +/-	máx +/-
			5 mm	5 mm	5 mm	5 mm	5 mm	5 mm	5 mm	5 mm
SQUARENESS	EN 324-2	mm/m	+/- 2	+/- 2	+/- 2	+/- 2	+/- 2	+/- 2	+/- 2	+/- 2
EDGE STRAIGHTNESS	EN-324-2	mm/m	+/-1,5	+/-1,5	+/-1,5	+/-1,5	+/-1,5	+/-1,5	+/-1,5	+/-1,5

(*) VALUES TO BE CONSIDERED AS A ROUGH GUIDE ONLY.

(**) Mounted without an air gap behind the FIBRAPAN H E-Z. Mounted with a closed air gap not more than 22 mm behind the FIBRAPAN H E-Z classification D-s2,d2. Classification E for any other more restrictive condition. Commission Decision 2007/348/EC.

(***) Mounted without an air gap behind the FIBRAPAN H E-Z, or with a closed air gap behind the FIBRAPAN H E-Z for thicknesses equal or greater than 15mm or with an open air gap behind the FIBRAPAN H E-Z for thicknesses equal or greater than 18 mm. Mounted with a closed air gap not more than 22 mm behind the FIBRAPAN H E-Z classification D-s2,d2 in thicknesses between 10 and 18 mm. Commission Decision 2007/348/EC.

These physical-mechanical values improve/comply with those established in EN 622-5:2009 European Standard, Table 4, Option 1. Requirements for boards for general use in humid conditions (Type MDF.H).

FIBRANOR H E-Z / FIBRAPAN H E-Z / IBERPAN H E-Z meet Class E1 requirements as defined in the European Standard EN 622-1.

Low formaldehyde emission product E05 (<0.05 ppm EN 717-1).

The quality of FIBRANOR H E-Z / FIBRAPAN H E-Z / IBERPAN H E-Z is endorsed by AITIM Quality Labels.

<div style="visibility:hidden;">(SELECT)</div>

must be extracted from the working environment with the usual procedures in the wood industry as industrial vacuum systems and IPEs use must be observed according to law.
