



FIBRAPAN BIO

TECHNICAL DATA-AVERAGE VALUES

Rev: 23/10/2023

PROPERTIES	TEST METHOD	UNITS	THICKNESSES mm		
			16 / 19	>19 / 30	>30 / 38
DENSITY (*)	EN 323	kg/m3	720 / 700	700 / 680	680 / 655
INTERNAL BOND	EN 319	N/mm2	0.75	0,75	0,70
BENDING STRENGTH	EN 310	N/mm2	24	22	21
MODULUS OF ELASTICITY	EN 310	N/mm2	2400	2300	2300
THICKNESS SWELLING 24 H	EN 317	%	8	7	7
DIMENSIONAL MOVEMENT LENGTH/WIDTH	EN 318	%	0,3	0,3	0,2
DIMENSIONAL MOVEMENT TICKNESS	EN 318	%	5	5	4
SURFACE SOUNDNESS	EN 311	N/mm2	1.2	1.2	1.2
SURFACE ABSORPTION (TWO FACES)	EN 382-1	mm	> 150	> 150	> 150
MOISTURE CONTENT	EN 322	%	7+/-3	7+/-3	7+/-3
REACTION TO FIRE TABLA 8 EN EN 13986:2006+A1:2015	EN 13501-1	Class	D-s2,d0 (**)	D-s2,d0	D-s2,d0
INTERNAL BOND AFTER BOIL TEST, OPTION 2 (V100)	EN 1087-1 / EN 319	N/mm2	0.12	0.12	0.10
SOUND ABSORPTION COEFFICIENT (A) (250 A 500 HZ)	EN 13984:2004+A1:2015	α	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
THERMAL CONDUCTIVITY	EN 13984:2004+A1:2015	W/ (m·K)	0.12	0.11	0.11
AIRBORNE SOUND INSULATION (SURFACE MASS) (R)	EN 13986:2004+A1:2015	db	28	30	32
WATER VAPOUR PERMEABILITY DRY CUP	EN 13986:2004+A1:2015	μ	25	24	23
WATER VAPOUR PERMEABILITY WET CUP	EN 13986:2004+A1:2015	μ	16	15	14
BIOLOGICAL DURABILITY USE	EN 335	Class of use	2	2	2
CONTENT OF PENTACHLOROPHENOL (PCP)	EN 13986:2004+A1:2015	ppm	< 5	< 5	< 5

TOLERANCE ON NOMINAL DIMENSIONS

PROPERTIES	TEST METHOD	UNITS	THICKNESSES mm		
			16 / 19	>19 / 30	>30 / 38
THICKNESS	EN 324-1	mm	+/-0.2	+/-0.3	+/-0.3
LENGTH/WIDTH	EN-324-1	mm	+/- 2	+/- 2	+/- 2
			mm/m, máx +/- 5 mm	mm/m, máx +/- 5 mm	mm/m, máx +/- 5 mm
SQUARENESS	EN 324-2	mm/m	+/- 2	+/- 2	+/- 2
EDGE STRAIGHTNESS	EN-324-2	mm/m	+/-1,5	+/-1,5	+/-1,5

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

(**) Mounted without an air gap behind the FIBRAPAN BIO, or with a closed air gap behind the FIBRAPAN BIO for thicknesses equal or greater than 15mm or with an open air gap behind the FIBRAPAN BIO for thicknesses equal or greater than 18 mm.
Mounted with a closed air gap not more than 22 mm behind the FIBRAPAN BIO 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 2. Requirements for boards for general use in humid conditions (Type MDF.H).

FIBRAPAN BIO are manufactured with formaldehyde-free resins.

FIBRAPAN BIO is approved by the Air Reosurces Board of the State of California and comply with phase 2 requirements on low formaldehyde emissions and with US EPA TSCA Title VI.

Non dangerous product. Adequate ergonomic techniques and IPEs must be used when handling. Dust generated in cutting, sanding, drawmilling and other processes 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.

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