

FIBRANOR MOISTURE RESISTANT / FIBRAPAN MOISTURE RESISTANT / IBERPAN MOISTURE RESISTANT

TECHNICAL DATA-AVERAGE VALUES

Rev: 29/05/2018

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/m3	880/860	855/830	825/770	765/745	745/730	730/715	730/675	700/650
INTERNAL BOND	EN 319	N/mm2	0.90	0.85	0.80	0.80	0.75	0.75	0.70	0.60
BENDING STRENGTH	EN 310	N/mm2	27	27	27	26	24	22	21	19
MODULUS OF ELASTICITY	EN 310	N/mm2	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 TICKNESS	EN 318	%	6	6	6	6	5	5	4	4
SURFACE SOUNDNESS	EN 311	N/mm2	>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 CONTENT	EN ISO 12460-5	mg/100 g	≤ 8	≤ 8	≤ 8	≤ 8	≤ 8	≤ 8	≤ 8	≤ 8
REACTION TO FIRE TABLA 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/mm2	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	%	<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
			mm/m,	mm/m,	mm/m,	mm/m,	mm/m,	mm/m,	mm/m,	mm/m,
			máx +/- 5 mm	máx +/- 5 mm	máx +/- 5 mm	máx +/- 5 mm	máx +/- 5 mm	máx +/- 5 mm	máx +/- 5 mm	máx +/- 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 FIBRANOR/FIBRAPAN/IBERPAN HIDROFUGO. Mounted with a closed air gap not more than 22 mm behind the FIBRANOR/FIBRAPAN/IBERPAN HIDROFUGO classification D-s2,d2. Classification E for any other more restrictive condition. Commission Decision 2007/348/EC.

(***) Mounted without an air gap behind the FIBRANOR/FIBRAPAN/IBERPAN HIDROFUGO, or with a closed air gap behind the FIBRANOR/FIBRAPAN/IBERPAN HIDROFUGO for thicknesses equal or greater than 15mm or with an open air gap behind the FIBRANOR/FIBRAPAN/IBERPAN HIDROFUGO for thicknesses equal or greater than 18 mm. Mounted with a closed air gap not more than 22 mm behind the FIBRANOR/FIBRAPAN/IBERPAN HIDROFUGO 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/FIBRAPAN/IBERPAN HIDROFUGO meet Class E1 requirements (analysed according EN ISO 12460-5) as defined in EN 622-1 European Standard.

The quality of FIBRANOR/FIBRAPAN/IBERPAN HIDROFUGO is endorsed by AITIM Quality Labels AITIM 9-04-08 and 9-4-09,

Fibranor Strip H/Fibrapan Strip H/Iberpan Strip H meet the physical-mechanical characteristics described in this technical data sheet.

(SELECT)

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.
