

FIBRANOR MOISTURE RESISTANT / FIBRAPAN MOISTURE RESISTANT / IBERPAN MOISTURE RESISTANT										
TECHNICAL DATA-AVERAGE VALUES Rev: 29/05/2018										
PROPERTIES	TEST METHOD	UNI TS	THICKNESSES mm							
			>2.5/ 4	>4/6	>6/9	>9/1 2	>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/m ²	0.90	0.85	0.80	0.80	0.75	0.75	0.70	0.60
BENDING STRENGTH	EN 310	N/m ²	27	27	27	26	24	22	21	19
MODULUS OF ELASTICITY	EN 310	N/m 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 TICKNESS	EN 318	%	6	6	6	6	5	5	4	4
SURFACE SOUNDNESS	EN 311	N/m 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 CONTENT	EN ISO 12460-5	mg/100 g	≤ 8	≤ 8	≤ 8	≤ 8	≤ 8	≤ 8	≤ 8	≤ 8
REACTION TO FIRE <small>EN 13986:2004+A1:2015 I</small>	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/m 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	Clas s 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 PENTACHLORO PHENOL (PCP)	EN 13986:2004+A1:2015	%	<5	<5	<5	<5	<5	<5	<5	<5

TOLERANCE ON NOMINAL DIMENSIONS

PROPERTIES	TEST METHOD	UNIT	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 mm/ m, máx +/- 5 mm	+/- 2 mm/ m, máx +/- 5 mm	+/- 2 mm/ m, máx +/- 5 mm	+/- 2 mm/ m, máx +/- 5 mm	+/- 2 mm/ m, máx +/- 5 mm	+/- 2 mm/ m, máx +/- 5 mm	+/- 2 mm/ m, máx +/- 5 mm	+/- 2 mm/ m, 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)