

FIBRAPLAST HIDROFUGO

TECHNICAL DATA-AVERAGE VALUES

Rev: 10/02/2016

PROPERTIES	TEST METHOD	UNITS	THICKNESSES mm						
			>2.5/4	>4/6	>6/9	>9/12	>12/19	>19/30	>30/40
DENSITY (*)	EN 323	kg/m3	880/860	855/830	825/770	765/745	745/730	730/715	730/680
INTERNAL BOND	EN 319	N/mm2	0.90	0.85	0.80	0.80	0.75	0.75	0.70
BENDING STRENGTH	EN 310	N/mm2	27	27	27	26	24	22	21
MODULUS OF ELASTICITY	EN 310	N/mm2	2700	2700	2700	2500	2400	2300	2200
THICKNESS SWELLING 24 H	EN 317	%	30	18	12	10	8	7	7
MOISTURE CONTENT	EN 322	%	7+/-3	7+/-3	7+/-3	7+/-3	7+/-3	7+/-3	7+/-3
FORMALDEHYDE EMISSION CLASS E1	EN ISO 12460-3	mg/(m2.h)	≤ 3.5	≤ 3.5	≤ 3.5	≤ 3.5	≤ 3.5	≤ 3.5	≤ 3.5
REACTION TO FIRE TABLA EN 13986:2004+A1:2015 I	EN 13501-1	Class	E	E	D-s2,d0 (**)	D-s2,d0 (**)	D-s2,d0 (***)	D-s2,d0	D-s2,d0
REACTION TO FIRE TABLA EN 13986:2004+A1:2015 I	EN 13501-1	Class	E	E	Dfl-s1 (****)	Dfl-s1	Dfl-s1	Dfl-s1	Dfl-s1
SWELLING IN THICKNESS AFTER CYCLIC TEST (V313)	EN 321 / EN 317	%	40	25	19	16	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
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
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
THERMAL CONDUCTIVITY	EN 13984:2004+A1:2015	W/ (m·K)	0.15	0.15	0.14	0.13	0.12	0.12	0.12
AIRBORNE SOUND INSULATION (SURFACE MASS) (R)	EN 13986:2004+A1:2015	db	NPD	NPD	25	25	28	30	32
WATER VAPOUR PERMEABILITY DRY CUP	EN 13986:2004+A1:2015	μ	21/31	20/30	18/28	17/27	16/25	15/24	15/24
BIOLOGICAL DURABILITY USE	EN 13986:2004+A1:2015	Class of use	1 & 2	1 & 2	1 & 2	1 & 2	1 & 2	1 & 2	1 & 2
CONTENT OF PENTACHLOROPHENOL (PCP)	EN 13986:2004+A1:2015	%	<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	>30/40
THICKNESS ON NOMINAL DIMENSIONS	EN 14323	mm	+/-0.3 (Clase 1) +0.5/-0.3 (Clase 3A)	+/-0.3 (Clase 1) +0.5/-0.3 (Clase 3A)	+/-0.3 (Clase 1) +0.5/-0.3 (Clase 3A)	+/-0.3 (Clase 1) +0.5/-0.3 (Clase 3A)	+/-0.3 (Clase 1) +0.5/-0.3 (Clase 3A)	+/-0.5	+/-0.5
THICKNESS WITHIN THE BOARD	EN 14323	mm	max-min <0,6	max-min <0,6	max-min <0,6	max-min <0,6	max-min <0,6	max-min <0,6	max-min <0,6
LENGHT & WIDTH	EN 14323	mm	+/-5	+/-5	+/-5	+/-5	+/-5	+/-5	+/-5
FLATNESS (SOLAMENTE EN REVESTIMIENTOS EQUILIBRADOS)	UNE-EN-14323	mm/m	-	-	-	-	≤2 (v*)	≤2 (v*)	≤2 (v*)

COATING PROPERTIES

PROPERTIES	TEST METHOD	UNITS	THICKNESSES mm
RESISTANCE TO SCRATCHING	EN 14323	N	≥ 1.5
RESISTANCE TO CRACKING	EN 14323	Rating	≥ 3
SURFACE ASPECT	EN 14323	Rating	4
RESISTANCE TO STAINING (GROUPS 1 Y 2)	EN 14323	Rating	5
RESISTANCE TO STAINING (GROUP 3)	EN 14323	Rating	4

VISUAL DEFECTS

EDGES DAMAGED	EN 14323	mm	≤2
SURFACE DEFECTS. POINTS	EN 14323	mm2/m2	≤20
SURFACE DEFECTS. LENGHT	EN 14323	mm/m2	≤10

RESISTANCE TO ABRASION:

TEST METHOD	CLASS	IP NUMBER OF TURNS
EN 14323	1	<50
EN 14323	3A	≥150

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

(**) Minimum thickness 9mm. Mounted without an air gap behind the FIBRAPLAST HIDROFUGO. Mounted with a closed air gap not more than 22 mm behind the FIBRAPLAST 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 FIBRAPLAST HIDROFUGO, or with a closed air gap behind the FIBRAPLAST HIDROFUGO for thicknesses equal or greater than 15mm or with an open air gap behind the FIBRAPLAST HIDROFUGO for thicknesses equal or greater than 18 mm. Mounted with a closed air gap not more than 22 mm behind the FIBRAPLAST HIDROFUGO classification D-s2,d2 in thicknesses between 10 and 18 mm. Commission Decision 2007/348/EC

(****) Minimum thickness 9 mm

(v*) Thickness ≥ 15 mm and balanced recoverings.

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).

FIBRAPLAST HIDROFUGO meets Class E1 requirements defined in the European Standard EN 14322.

FIBRAPLAST HIDROFUGO is endorsed by AITIM Quality Label.

HANDLING/STORAGE:

It must always be stored under cover and on a flat surface.

65% of humidity is the ideal condition for its storage, dryer or more moist environments should be avoided.

It must never be in direct contact with water.

Blocks must always be lined up with the vertical.

Never pile up more than 4 heights.

If the packaging is damaged during its handling, it must be packed again so the product is correctly preserved.

If the piling-up conditions or the changes in moisture or temperature above mentioned are not respected in the warehouses or the processing areas, they may cause irreversible deformations and warpings.

(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.