

FIBRAPAN TECH HLS

TECHNICAL DATA-AVERAGE VALUES

Rev: 08/03/2018

PROPERTIES	TEST METHOD	UNITS	THICKNESSES mm		
			10 - 12	>12 - 19	>19 - 30
DENSITY (*)	EN 323	kg/m ³	765/745	745/730	730/715
INTERNAL BOND	EN 319	N/mm ²	0.80	0.75	0.75
BENDING STRENGTH	EN 310	N/mm ²	32	30	28
MODULUS OF ELASTICITY	EN 310	N/mm ²	2800	2700	2600
THICKNESS SWELLING 24 H	EN 317	%	10	8	7
DIMENSIONAL MOVEMENT LENGTH/WIDTH	EN 318	%	0.4	0.3	0.3
DIMENSIONAL MOVEMENT THICKNESS	EN 318	%	6	5	5
SURFACE SOUNDNESS	EN 311	N/mm ²	>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
GRIT CONTENT	ISO 3340	% Weight	≤ 0.05	≤ 0.05	≤ 0.05
FORMALDEHYDE EMISSION	EN 717-1	ppm	≤ 0.1	≤ 0.1	≤ 0.1
REACTION TO FIRE TABLA 8 EN EN 13986:2006+A1:2015	EN 13501-1	Class	D- s2,d0(**)	D- s2,d0(***)	D-s2,d0
SWELLING IN THICKNESS AFTER CYCLIC TEST (V313)	EN 321 / EN 317	%	16	15	15
INTERNAL BOND AFTER CYCLIC TEST (V313)	EN 321 / EN 319	N/mm ²	0,25	0.20	0,15
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)	0,15	0,14	0,13
AIRBORNE SOUND INSULATION (SURFACE MASS) (R)	EN 13986:2004+A1:2015	db	26	28	30
WATER VAPOUR PERMEABILITY DRY CUP	EN 13986:2004+A1:2015	μ	29	28	26
WATER VAPOUR PERMEABILITY WET CUP	EN 13986:2004+A1:2015	μ	19	18	17
BIOLOGICAL DURABILITY USE	EN 335	Class of use	1 y 2	1 y 2	1 y 2
CONTENT OF PENTACHLOROPHENOL (PCP)	EN 13986:2004+A1:2015	ppm	< 5	< 5	< 5
MECHANICAL DURABILITY	EN 13986:2004+A1:2015	Kmod Kdef	Tabla 3.1 & Tabla 3.2, EN 1995-1:2004+A1	Tabla 3.1 & Tabla 3.2, EN 1995-1:2004+A1	Tabla 3.1 & Tabla 3.2, EN 1995-1:2004+A1

TOLERANCE ON NOMINAL DIMENSIONS

PROPERTIES	TEST METHOD	UNITS	THICKNESSES mm		
			10 - 12	>12 - 19	>19 - 30
THICKNESS	EN 324-1	mm	+/-0.2	+/-0.2	+/-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

COLOR RESISTANCE TO UV LIGHT (XENON LAMP)

EN 14323

Blue wool scale, n°

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

(**) Mounted without an air gap behind the FIBRAPAN TECH HLS. Mounted with a closed air gap not more than 22 mm behind the FIBRAPAN TECH HLS 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 TECH HLS, or with a closed air gap behind the FIBRAPAN TECH HLS for thicknesses equal or greater than 15mm or with an open air gap behind the FIBRAPAN TECH HLS for thicknesses equal or greater than 18 mm. Mounted with a closed air gap not more than 22 mm behind the FIBRAPAN TECH HLS 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 6, Option 1. Requirements for boards for structural use in humid conditions (Type MDF.HLS).

FIBRAPAN TECH HLS meet Class E1 requirements (analysed according EN ISO 12460-5) as defined in EN 622-1 European Standard.

The quality of FIBRAPAN TECH HLS is endorsed by AITIM Quality Labels.

FIBRAPAN TECH HLS holds CE certificate of conformity of the factory production control issued by AENOR,

(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.