



**FINSA**  
solutions in wood

**FIBRANATUR**

**TECHNICAL DATA-AVERAGE VALUES**

Rev: 01/25/2018

PROPERTIES	TEST METHOD	UNITS	THICKNESSES mm					
			4 - 5	>5 - 7	>7 - 10	>10 - 13	>13 - 20	>20 - 31
DENSITY (*)	EN 323	kg/m <sup>3</sup>	835/825	820/800	770/740	735/720	720/675	675/655
INTERNAL BOND	EN 319	N/mm <sup>2</sup>	0.90	0.85	0.75	0.65	0.55	0.55
BENDING STRENGTH	EN 310	N/mm <sup>2</sup>	23	23	23	22	20	18
MODULUS OF ELASTICITY	EN 310	N/mm <sup>2</sup>	--	2700	2700	2500	2200	2100
THICKNESS SWELLING 24 H	EN 317	%	35	30	17	15	12	10
DIMENSIONAL MOVEMENT LENGTH/WIDTH	EN 318	%	0.4	0.4	0.4	0.4	0.4	0.3
DIMENSIONAL MOVEMENT THICKNESS	EN 318	%	10	10	6	6	6	5
SURFACE SOUNDNESS	EN 311	N/mm <sup>2</sup>	1.2	1.2	1.2	1.2	1.2	1.2
MOISTURE CONTENT	EN 322	%	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
FORMALDEHYDE CONTENT	EN ISO 12460-5	mg/100 g	≤ 8	≤ 8	≤ 8	≤ 8	≤ 8	≤ 8
REACTION TO FIRE TABLA EN 13986:2004+A1:2015 I	EN 13501-1	Class	E (**)	E (**)	E (**)	D-s <sub>2</sub> ,d <sub>0</sub> (***)	D-s <sub>2</sub> ,d <sub>0</sub> (****)	D-s <sub>2</sub> ,d <sub>0</sub> (**)
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
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
THERMAL CONDUCTIVITY	EN 13984:2004+A1:2015	W/ (m-K)	0.15	0.15	0.13	0.13	0.12	0.12
AIRBORNE SOUND INSULATION (SURFACE MASS) (R)	EN 13986:2004+A1:2015	db	NPD	NPD	22 / 24	24 / 26	26 / 28	29 / 30
WATER VAPOUR PERMEABILITY DRY CUP	EN 13986:2004+A1:2015	μ	31	30	28	27	25	24
WATER VAPOUR PERMEABILITY WET CUP	EN 13986:2004+A1:2015	μ	21	20	18	17	16	15
BIOLOGICAL DURABILITY USE	EN 13986:2004+A1:2015	Class of use	1	1	1	1	1	1
CONTENT OF PENTACHLOROPHENOL (PCP)	EN 13986:2004+A1:2015	%	<5	<5	<5	<5	<5	<5

**TOLERANCE ON NOMINAL DIMENSIONS**

PROPERTIES	TEST METHOD	UNITS	THICKNESSES mm					
			4 - 5	>5 - 7	>7 - 10	>10 - 13	>13 - 20	>20 - 31
THICKNESS	EN 324-1	mm	+0.1/-0.7	+0.1/-0.7	+0.1/-0.5	+0.1/-0.5	+0.1/-0.5	+0.1/-0.5
LENGTH/WIDTH	EN-324-1	mm	+0 mm / -5 mm	+0 mm / -5 mm	+0 mm / -3 mm	+0 mm / -3 mm	+0 mm / -3 mm	+0 mm / -3 mm

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

The thickness of the veneered board is understood as the thickness of the baseboard plus one millimetre (theoretical thickness of the veneer).

(\*\*) Commission Decision 2007/348/EC.

(\*\*\*) Mounted without an air gap behind the FIBRANATUR.  
Mounted with a closed air gap not more than 22 mm behind the FIBRANATUR classification D-s<sub>2</sub>,d<sub>2</sub>.  
Classification E for any other more restrictive condition. Commission Decision 2007/348/EC.

(\*\*\*\*) Mounted without an air gap behind the FIBRANATUR, or with a closed air gap behind the FIBRANATUR for thicknesses equal or greater than 16mm or with an open air gap behind the FIBRANATUR for thicknesses equal or greater than 19 mm.  
Mounted with a closed air gap not more than 22 mm behind the FIBRANATUR classification D-s<sub>2</sub>,d<sub>2</sub> in thicknesses between 11 mm and 19 mm. Commission Decision 2007/348/EC.

These physical-mechanical values improve/comply with those established by EN 622-5:2009 European Standard, Table 3. Requirements for general purpose boards for use in dry conditions (type MDF).

(SELECT)