



FINANCIERA MADERERA S.A.
(FINSA)
N-550, KM 57
15890 SANTIAGO DE COMPOSTELA
(A CORUÑA)
SPAIN

DECLARATION OF PERFORMANCE N° 00133



01/18/2021

SUPERPAN VAPOURSTOP

Manufactured at: Luso Finsa
Estrada Nacional 234, Km
92.7
3524-952 NELAS
(PORTUGAL)

TECHNICAL CLASS	INTENDED USE	AVCP*	NOTIFIED BODY AND REFERENCE	CERTIFICATE NUMBER
P5	Internal use as structural components in humid conditions	2+	AENOR 0099	0099/CPR/A65/0036

*Assessment and verification of constancy of performance system according to Annex V of regulation (EU) No 305/2011

PROPERTIES	TEST METHOD	UNITS	THICKNESSES mm				
			>10/13	>13/20	>20/25	>25/32	>32/40
CHARACTERISTIC STRENGTH (!)							
BENDING $f_{m,0,k}$	EN 12369-1	N/mm2	15,0	13,3	11,7	10,0	8,3
COMPRESSION $f_{c,90,k}$	EN 12369-1	N/mm2	12,7	11,8	10,3	9,8	8,5
TENSION $f_{t,0,k}$	EN 12369-1	N/mm2	9,4	8,5	7,4	6,6	5,6
PANEL SHEAR $f_{v,k}$	EN 12369-1	N/mm2	7,0	6,5	5,9	5,2	4,8
PLANAR SHEAR $f_{r,k}$	EN 12369-1	N/mm2	1,9	1,7	1,5	1,3	1,2
CHARACTERISTIC STIFFNESS (MOE) (!)							
CHARACTERISTIC DENSITY d_k	EN 12369-1	N/mm2	650	600	550	550	500
TENSION $E_{t,0,mean}$	EN 12369-1	N/mm2	2000	1900	1800	1500	1400
COMPRESSION $E_{c,90,mean}$	EN 12369-1	N/mm2	2000	1900	1800	1500	1400
BENDING $E_{m,0,mean}$	EN 12369-1	N/mm2	3500	3300	3000	2600	2400
PANEL SHEAR $g_{v,mean}$	EN 12369-1	N/mm2	960	930	860	750	690
POINT LOAD F_{ULS} FOR FLOORS AND ROOFS	EN 12871	N/mm2	NPD	NPD	NPD	NPD	NPD
POINT LOAD MEAN STIFFNESS FOR FLOORS AND ROOFS	EN 12871	N/mm2	NPD	NPD	NPD	NPD	NPD
POINT LOAD SERVICEABILITY F_{SLS} FOR FLOORS AND ROOFS	EN 12871	N/mm2	NPD	NPD	NPD	NPD	NPD
RACKING RESISTANCE FOR WALLS	EN 12871	N/mm2	NPD	NPD	NPD	NPD	NPD
SOFT BODY IMPACT RESISTANCE PARA FORJADOS, CUBIERTAS Y MUROS	EN 12871	N/mm2	NPD	NPD	NPD	NPD	NPD



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TECHNICAL DATA-AVERAGE VALUES			Rev: 01/18/2021				
PROPERTIES	TEST METHOD	UNITS	THICKNESSES mm				
			>10/13	>13/20	>20/25	>25/32	>32/40
DENSITY (*)	EN 323	kg/m3	750	720	710	700	675
INTERNAL BOND	EN 319	N/mm2	0,60	0,60	0,55	0,50	0,45
BENDING STRENGTH	EN 310	N/mm2	28	28	26	20	19
MODULUS OF ELASTICITY	EN 310	N/mm2	3500	3500	3200	3000	2800
THICKNESS SWELLING 24 H	EN 317	%	10	10	10	10	9
DIMENSIONAL MOVEMENT LENGTH/WIDTH	EN 318	%	0,4	0,4	0,4	0,4	0,4
DIMENSIONAL MOVEMENT THICKNESS	EN 318	%	6	6	6	6	6
SURFACE SOUNDNESS	EN 311	N/mm2	>1,1	>1,1	>1,1	>1,1	>1,1
MOISTURE CONTENT	EN 322	%	8+/-3	8+/-3	8+/-3	8+/-3	8+/-3
FORMALDEHYDE EMISSION	EN 717-1	ppm	≤ 0,05	≤ 0,05	≤ 0,05	≤ 0,05	≤ 0,05
SCREW HOLDING. EDGE	EN 320	N	800	800	800	800	800
SCREW HOLDING. SURFACE	EN 320	N	1100	1100	1100	1100	1100
REACTION TO FIRE TABLA 8 EN EN 13986:2006+A1:2015	EN 13501-1	Class	D-s2,d0**	D-s2,d0***	D-s2,d0	D-s2,d0	D-s2,d0

REACTION TO FIRE	TABLA 8 EN 13986:2004+A1:2015	EN 13501-1	Class	Dfl-s1	Dfl-s1	Dfl-s1	Dfl-s1	Dfl-s1
SWELLING IN THICKNESS AFTER CYCLIC TEST (V313)		EN 321 / EN 317	%	12	12	11	10	9
INTERNAL BOND AFTER CYCLIC TEST (V313)		EN 321 / EN 319	N/mm2	0,25	0,22	0,20	0,17	0,15
SOUND ABSORPTION COEFFICIENT (A) (250 A 500 HZ)		EN 13984:2004+A1:2015	α	0,10	0,10	0,10	0,10	0,10
SOUND ABSORPTION COEFFICIENT (A) (1000 A 2000 HZ)		EN 13984:2004+A1:2015	α	0,25	0,25	0,25	0,25	0,25
THERMAL CONDUCTIVITY		EN 13984:2004+A1:2015	W/ (m·K)	0,15	0,14	0,14	0,14	0,14
AIRBORNE SOUND INSULATION (SURFACE MASS) (R)		EN 13986:2004+A1:2015	db	26	28	30	31	32
WATER VAPOUR PERMEABILITY DRY CUP		EN 13986:2004+A1:2015	μ	1150	1150	1150	1150	1150
WATER VAPOUR PERMEABILITY WET CUP		EN 13986:2004+A1:2015	μ	240	240	240	240	240
BIOLOGICAL DURABILITY USE		EN 335	Class of use	1 & 2	1 & 2	1 & 2	1 & 2	1 & 2
CONTENT OF PENTACHLOROPHENOL (PCP)		EN 13986:2004+A1:2015	ppm	<5	<5	<5	<5	<5
MECHANICAL DURABILITY		EN 13986:2004+A1:2015	Kmod Kdef	Tabla 3.1, EN 1995- 1:2004;Tabla 3.2, EN 1995- 1:2004;	Tabla 3.1, EN 1995- 1:2004;Tabla 3.2, EN 1995- 1:2004;	Tabla 3.1, EN 1995- 1:2004;Tabla 3.2, EN 1995- 1:2004;	Tabla 3.1, EN 1995- 1:2004;Tabla 3.2, EN 1995- 1:2004;	Tabla 3.1, EN 1995- 1:2004;Tabla 3.2, EN 1995- 1:2004;

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

(**) Mounted without an air gap behind the superPan VapourStop. Mounted with a closed air gap not bigger than 22 mm behind the superPan VapourStop classification D-s2,d2. Classification E for any other more restrictive condition. Commission Decision 2007/348/EC

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

The properties of permeability of water vapor for wet and dry glass cup Superpan VapourStop board, have been tested according to DIN EN ISO 12572 laboratory Materialprüfanstalt MPA Eberswalde Brandenburg GmbH ; in (Test Report No. 31/13 /1987/ 02 / μ)

These physical-mechanical values improve/comply with the P5 classification established in EN 312:2010 European Standard, Tables 7 and 8. Structural boards used in moist environments (Type P5). Requirements for the specified mechanical and swelling properties. Requirements for use in humid conditions.

SuperPan VapourStop is a low formaldehyde emission product E05 (≤ 0.05 ppm EN 717-1) and meets Class E1 requirements as defined in EN 14322 European Standard.

SuperPan VapourStop holds CE Certificate of conformity of the factory production control issued by the European Notified Body AENOR.

The performance of the reference product are in compliance with the performance declared above
This Declaration of Performance is issued under the sole responsibility of FINANCIERA MADERERA S.A. (FINSA)

Javier Portela
FINSA R&D + Quality Director
Santiago de Compostela 01/18/2021

Javier Portela

