Technical characteristics

Thickness	Test method	units	>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 TICKNESS	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 (↕) (250 A 500 HZ)	EN 13984 :2004+ A1:2015	α	0,10	0,10	0,10	0,10	0,10
SOUND ABSORPTION COEFFICIENT (↕) (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 13984 :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 PENTACHLOR-OPHENOL (PCP)	EN 13986 :2004+ A1:2015	ppm	<5	<5	<5	<5	<5
PANEL SHEAR fv,k	EN 12369-1	N/mm2	7,0	6,5	5,9	5,2	4,8
PLANAR SHEAR fr,k	EN 12369-1	N/mm2	1,9	1,7	1,5	1,3	1,2
MECHANICAL DURABILITY	EN 13986 :2004+ A1:2015	Kmod Kdef	Tabla 3.1, EN 1995-1:2004 Tabla 3.2, EN 19951: 2004; 1:2004; Tabla	Tabla 3.1, EN 1995-1:2004 Tabla 3.2, EN 19951: 2004; 1:2004; Tabla	Tabla 3.1, EN 1995-1:2004 Tabla 3.2, EN 19951: 2004; 1:2004; Tabla	Tabla 3.1, EN 1995-1:2004 Tabla 3.2, EN 19951: 2004; 1:2004; Tabla	Tabla 3.1, EN 1995-1:2004 Tabla 3.2, EN 19951: 2004;1 :2004; Tabla

Timber construction

Advantages:

Circular bio-economy.

Helps sustainably mantain forests.

Ensures the socio-economic growth in the rural environment.

Helps fight against climate change.

Aligns with the European Union goals for reducing greenhouse gas emissions.

It has health benefits thanks to:

Excellent hygroscopicity

Low thermal conductivity

Low acoustic reverberation

Finsa

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Finsa Tech

Superpan Vapourstop E-Z

Airtight structural board with integrated vapour barrier

finsa.com

phA CERTIFIED COMPONENT Passive House Institute

A new generation of board

Superpan is a new generation of technical wood manufactured by Finsa, with a unique composition that is different to any board on the market.

Board core

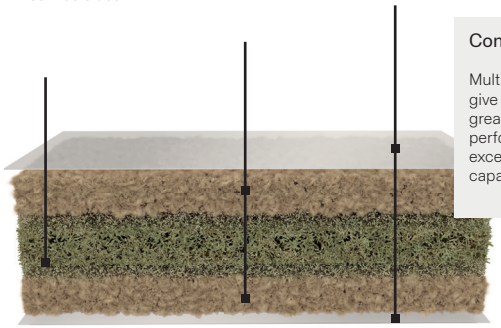
Wood particles with moisture resistance resins for use in humid environments, up to service class 2.

Wood fibre

Wood fibre layer that provides excellent strength.

Membrane

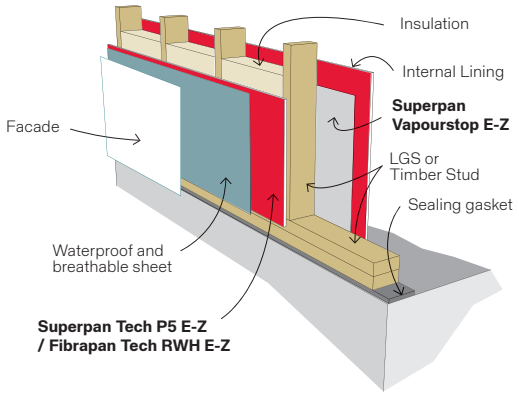
Special overlay that enhances resistance to the difusion of water vapour.



Composition

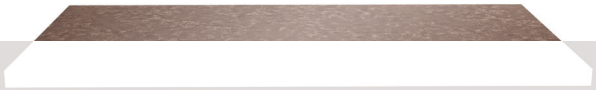
Multiple layers give the product great stability, high performance and excellent structural capacity.

Layout scheme for Superpan Vaporstop E-Z in light-framed vertical enclosures



Outstanding Characteristics

- High vapour resistance
- High airtightness
- Racking component
- Good fixing
- Omnidirectional resistance
- Moisture resistant
- Resistant to Xylophagous insects
- Lower breakage risk
- Shorter installation time
- Low VOC and formaldehyde emissionns



Water vapour diffusion resistance

When using Superpan Vapoustop E-Z in light framework enclosures, it is important to consider the vapour diffusion properties for the calculation of condensation.

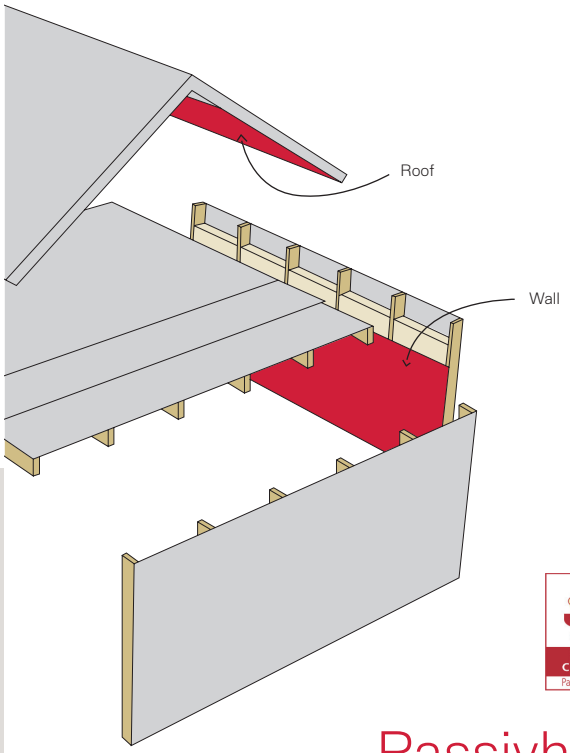
In accordance with DIN EN ISO 12572, we can certify the following values:

μ
Water vapour diffusion resistance factor

Dry cup	Wet cup
1150	240

Flexibility and versatility

Superpan Vapourstop E-Z is the ideal solution for use inside buildings as a vapour barrier, providing the structural function of the board itself with an integrated air and vapour barrier.



phA CERTIFIED COMPONENT Passive House Institute

Passivhaus construction

Superpan Vapourstop E-Z is a phA certified component, representing the highest level of airtightness awarded by the Passivhaus Institut.

For over 20 years, Ecological Building Systems has been at the forefront of environmental and sustainable building products supplying a range of innovative airtightness solutions and natural insulations backed up with expert technical support.

As product suppliers in the UK and Ireland, we're happy to assist you with your projects and have expert technical and sales advice on hand.

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