



# SPANOTECH

Wood Building Solutions



## Durélis® Vapourblock®

### Product class

P5

### Standard reference

EN 312

### Producer

Spano

### Solution



**ECOBUILDING&INSULATION**  
Wood Building Solutions



**MOISTURE RESISTANT**  
Wood Based Solutions

### Scope

Structural, airtight and dampproof building board with a pre-applied vapour barrier.

### Beschrijving

The Durélis® Vapourblock® board comes as standard with a factory fitted transparent vapour barrier on one side with a  $\mu$  value of 240. The Vapourblock® vapour barrier therefore ensures a constant  $\mu$ -value over the entire surface. This contrasts with the traditional wooden panel materials where the  $\mu$  value is always an average. Such boards present both damp-proof and vapour permeable areas.

### Gebruik van het product

Durélis® Vapourblock® belongs to the P5 product class (standard reference EN 312): boards for load-bearing applications to be used in humid conditions and can be used in biological hazard classes 1 and 2 of EN 335-3. These boards fall therefore within the same scope as Oriented Strand Boards OSB/3 (EN 300), plywood (EN 636-2).

Durélis® Vapourblock® is produced with a high density, hard surface and screw-holding core. The board undergoes minimal expansion and swelling when subjected to high levels of humidity. It also has low formaldehyde emission (E1 class).

Upon delivery and whenever feasible during and after installation, the boards should be protected as well as possible from any direct contact with water. The boards should be stacked flat, on a pallet or using a sufficient number of cross members, and should not be stored vertically, unless ground contact can be avoided. The board will expand/shrink under variable humidity conditions, meaning that an expansion space must be provided at all times. Use suitable sawing, milling and drilling tools. Nails or screws should be kept at least 8 mm away from the edge of the board.

### Diffusion permeable, airtight structural inner panels

The design with the structural, diffusion permeable and airtight Durélis® Vapourblock® board on the inside (and vapour permeable wood fibre board such as Hofatex® UD on the outside) has the advantage of offering air protection, vapour barrier and structural stiffening properties in one single board. On-site, it is also possible to clad the open timber-frame construction continuously on the outside with a vapour permeable wood-fibre board such as Hofatex® UD and then blow insulation into it. (Instructions are available on request.)

Through the combination of the specific heat tempered Topfinish® coating and the Vapourblock® vapour barrier, the board is also particularly airtight (<0.001 m<sup>3</sup>/m<sup>2</sup>/h/Pa at 50Pa - 15mm). Durélis® Vapourblock® is thus strongly recommended for use in timber frame, low-energy and passive buildings. It is always necessary to mask any joints or gaps with suitable air-tight tape.

### Dimensions

Various thicknesses and lengths/widths are available within the press and production capabilities. Please contact our agent or e-mail us at [sales@spanotech.be](mailto:sales@spanotech.be).

### Technical specifications

General characteristics + standard	Unit	Average values		
Thickness EN 324-1	mm	10	12	15
Density EN 323	Kg/m <sup>3</sup>	740	720	720
Moisture content EN 322	%	6-10	6-10	6-10
Air permeability at 50 Pa EN 13829	m <sup>3</sup> /m <sup>2</sup> /h/Pa	<0.001 (15mm)		
Thermal conductivity EN 13986	W/mK	0,13		
Sound absorption coefficient EN 13986	-	250-500 Hz: 0.10		
Airborne sound insulation EN 13986	dB	27.4(18mm)		
Vapour resistivity EN 13986	-	240 (15mm)		
Fire rating EN 13501-1	-	D-s2,d0		
Formaldehyde emission EN 120	mg/100g	E1		
Technical characteristics + standard		5/95 Percentile values		
Bending strength EN 310	N/mm <sup>2</sup>	18	18	16
Internal bond EN 319	N/mm <sup>2</sup>	0,45	0,45	0,45
Modulus of elasticity EN 310	N/mm <sup>2</sup>	2550	2550	2400
Swelling/24h EN 317	%	11	11	10
Internal bond after cyclic test EN 321 option 1	N/mm <sup>2</sup>	0,25	0,25	0,22
Swelling after cyclic test EN 321 option 1	%	12	12	12



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Please contact [www.spanogroup.be](http://www.spanogroup.be) for an up-to-date stock list and all general specifications  
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### SpanoTech

Ingelmunstersteenweg 229  
B - 8780 Oostrozebeke  
Tel.: +32 (0)56 66 70 21  
Fax: +32 (0)56 66 82 25  
E-mail: [info@spanotech.be](mailto:info@spanotech.be)  
Web: [www.spanotech.be](http://www.spanotech.be)