



# Durelis VapourBlock

P5 Airtight, reinforcing, moisture-resistant construction board with integrated vapour barrier

Durelis VapourBlock is a Durelis board with an industrially applied, transparent vapour barrier on one side. Thanks to this technology, the VapourBlock vapour barrier has a constant  $\mu$  value of 510 (12mm) over the whole surface of the board. This is in contrast to traditional wooden board materials for which the  $\mu$  value can only be an average. Such boards have both vapour-proof and highly vapour-permeable zones. Combined with a TopFinish surface, this ensures that the board is extremely airtight ( $< 0.001 \text{ m}^3/\text{m}^2/\text{h}/\text{Pa}$  at 50Pa-15mm). It is important to always seal all joints and cracks with suitable airtight tape. Durelis VapourBlock boards can be used in service class 2 (limited temperature and atmospheric humidity), in biological hazard classes 1 and 2 of EN Standard 335-3.

## Applications

- Roofs
- Walls

## Characteristics



Product class P5



Structural Applications



Moisture resistant



Vapour retardant



TopFinish



Tongue-and-groove joints (optional)



Airtight



Lacquered



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## Applications

Durelis VapourBlock is an ideal solution for applications in timber-frame construction and in low-energy passive house building. Using Durelis VapourBlock on the inside of a building (and vapour-permeable wood fibreboard such as FiberTech Top on the outside) offers the advantage of combining an air barrier, vapour barrier and structural reinforcement, all combined in a single layer of board. Consult the UNILIN construction manual with detailed instructions for use and characteristic metrics at [www.unilinpanels.com](http://www.unilinpanels.com).

## Technical specifications

General characteristics + Standard	Unit	Average values
Thickness EN 324-1	mm	12
Moisture level EN 322	%	6-10
Airtightness at 50 Pa EN 13829	m <sup>3</sup> /m <sup>2</sup> /h/Pa	<0,001
Thermal insulation value EN 13986	W/m.K	0,144
Sound absorption coefficient EN 13986		250-500 Hz: 0,10    1000-2000 Hz: 0,25
Atmospheric sound insulation EN 13986)	dB	27,4 (18mm)
Water vapour permeability EN 240		510
Reaction to fire class EN 13501-1		D-s2,d0
Technical characteristics + Standard		5/95 percentile values
Bending strength EN 310	N/mm <sup>2</sup>	18
Internal bond EN 319	N/mm <sup>2</sup>	0,45
Bending stiffness EN 310	N/mm <sup>2</sup>	2550
Swelling/24h EN 317 Option1	%	11
Internal bond after cyclic test EN 321-1 Option1	N/mm <sup>2</sup>	0,25
Swelling after cyclic test EN 321-1 Option1	%	12

Durelis VapourBlock comes under formaldehyde emission class E1 and meets the general requirements as described in Table 1 of EN Standard 312.

## Available dimensions and thicknesses

Durelis VapourBlock is available from stock. Consult the complete UNILIN Panels stock range at [www.unilinpanels.com](http://www.unilinpanels.com).

For our technical capabilities on custom thicknesses and dimensions, as well as minimum order requirements, please contact our sales team or email [info.panels@unilin.com](mailto:info.panels@unilin.com).

## Certificates

UNILIN Division Panels is actively committed to sustainable forest management. Durelis VapourBlock is available on demand with PEFC and FSC®-labels.