



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 μ value of 185 (12mm) over the whole surface of the board. This is in contrast to traditional wooden board materials for which the μ 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
- SpanoTech

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 technical manual with detailed instructions for use and characteristic metrics at 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 ³ /m ² /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		185
Reaction to fire class EN 13501-1		D-s2,d0
Technical characteristics + Standard		5/95 percentile values
Bending strength EN 310	N/mm ²	18
Internal bond EN 319	N/mm ²	0,45
Bending stiffness EN 310	N/mm ²	2550
Swelling/24h EN 317 Option1	%	11
Internal bond after cyclic test EN 321-1 Option1	N/mm ²	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.

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.

Certificates

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

