

VapourTech® Brane® VHP

Product Code: VHP

Vapour permeable wall insulation

For moisture control behind all types of cladding and in all wall systems in Climate Zones 2-8



VapourTech® Brane® VHP is a Very High Permeance (VHP), vapour permeable, triple-layer, Light Wall Duty wall wrap designed for use in a wide range of wall systems.

VapourTech® Brane® VHP is classified as a Water Barrier and Class 4 Vapour Permeable membrane. Very high levels of water vapour are allowed to absorb and diffuse through the core non-woven structure, ensuring that condensation risk is controlled, while outside liquid water cannot penetrate inwards. VapourTech® Brane® VHP is chemically non-reactive in conjunction with treated timber and salt conditions close to coastlines.

- > Class 4 Vapour Permeable
- > Water Barrier
- > 30 days UV exposure
- > Triple layer construction for durability
- > Low Flammability, suitable for all BALs in bushfire-prone areas

Application

VapourTech® Brane® VHP is used as a wall wrap behind all types of cladding and in all wall systems in Climate Zone 2-8

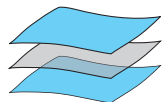
NOTE: It is NOT recommended for this application in ABCB Climate Zone 1; select from our range of Class 1 and 2 Vapour Barrier products instead.

VapourTech® Brane® VHP is available in 1.37 m and 1.5 m width rolls, and a convenient 2.74 m width roll that halves installation time and reduces the amount of air gaps and joins in the wall system.

If installed behind non-absorbent claddings such as steel, provision should be given for adequate drainage of any trapped moisture.

Construction

VapourTech® Brane® VHP is made with an advanced three-layer construction: two tough outer layers of spun-bonded fabric protecting an inner core of VHP membrane.



- > Non-woven Polymer Fabric
- > Very high permeable membrane
- > Non-woven Polymer Fabric

Total System R-Values

Light Weight Cladding

fixed to battens with VapourTech® Brane® VHP + R2.7 fibrous batt.

Winter **R, 2.92**

Summer **R, 2.77**

Brick Veneer Wall

with VapourTech® Brane® VHP + R2.7 fibrous batt.

Winter **R, 2.93**

Summer **R, 2.78**

R-values apply to typical conditions for mainland Australian capital cities and have been calculated by an independent consulting engineer in accordance with AS/NZS 4859.2:2018. For detailed design of building systems, seek advice based on actual site conditions from a qualified licensed engineer. The contribution of this product to the total system R-value depends on installation and environmental conditions.

Material Properties and Classifications

VapourTech® Brane® VHP classifications in accordance with AS/NZS 4200.1:2017.

Criteria	Reference	Result	Requirement
Flammability Index	AS 1530.2-1993	Low ≤ 5	High (> 5) / Low (≤ 5)
Nominal Thickness		0.38 mm	Value
Duty	AS/NZS 4200.1:2017	Light Wall	Classification
Burst Strength	AS 2001.2.19-1998	254 N	≥ 200 N
Edge Tear Machine Direction	TAPPI T 470 om-89	180 N	Min 45 N
Edge Tear Lateral Direction	TAPPI T 470 om-89	89 N	Min 45 N
Vapour Control	ASTM E96	Class 4 Vapour Permeable	Class 1 to 4
Vapour Permeance	ASTM E96	12.848 $\mu\text{g}/\text{N}\cdot\text{s}$	Value
Water Control	AS/NZS 4201.4:1994	Water Barrier	Classification
Resistance to Dry Delamination	AS/NZS 4201.1:1994	Pass	Pass
Resistance to Wet Delamination	AS/NZS 4201.2:1994	Pass	Pass
Shrinkage (Repeated wetting & drying)	AS/NZS 4201.3:1994	0.0%	$< 0.5\%$
Electrical Conductivity	AS/NZS 4200.1:2017	Non-conductive	Classification
Emittance Value	AS/NZS 4201.5:1994	0.9, 0.9	Value
Emittance Classification	AS/NZS 4200.1:2017	IR Non-reflective, IR Non-reflective	Classification
Emittance Category	AS/NZS 4200.1:2017	NN	Category

NCC Compliant

VapourTech® Brane® VHP complies with AS/NZS 4200.1:2017 and therefore meets all of the requirements of the *National Construction Code* of Australia for pliable building membranes, insulation and sarking-type materials.

Fire Performance

Flammability Index

Low (≤ 5)

Tested in accordance with AS1530.2-1993 - *Methods for fire tests on building materials, components and structures Part 2: Test for flammability of materials*.

Bushfire Attack Levels

Complies with AS3959-2018 *Construction of buildings in bushfire-prone areas* for use in all BALs.

Seek independent advice regarding the selection of sarking prior to installation in the BAL design.

Dimensions

2740 mm x 30 m (82.2 m²)

1500 mm x 30 m (45 m²)

1370 mm x 30 m (41.1 m²)

Nominal Thickness: 0.38 mm

Specification Notes

When specifying, state the following:

Product Name: Ametalin VapourTech® Brane® VHP

The pliable building membrane to be installed shall be Ametalin VapourTech® Brane® VHP, very high permeance wall wrap and shall be installed in accordance with AS 4200.2: 2017 *Pliable Building Membranes and Underlays, Part 2: Installation*.

Emittance Value: 0.9, 0.9

Emittance Classification: IR Non-Reflective, IR Non-Reflective

Vapour Control Classification: Class 4 Vapour Permeable, 12.848 $\mu\text{g}/\text{N}\cdot\text{s}$

Water Control Classification: Water Barrier

Flammability Classification: Low (≤ 5)

Duty Classification: Light Wall in accordance with AS/NZS 4200.1:2017

Complete details available on our website:

<https://www.ametalin.com>

Handling and Storage

Store this product undercover in a clean, dry place in the pack provided.

Performance insulation for a greener world

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Durability may be affected by environmental factors, including chemical and airborne pollutants, if used in industrial or farm buildings.

Australian designed for Australian conditions. Ametalin 9-11 Playford Crescent, Salisbury North SA 5108 T: +61 8 8285 6955 F: +61 8 8285 5911 E: info@ametalin.com

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