Ametalin

Performance insulation for a greener world

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

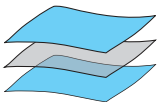
NOTE: It is NOT recommended for this application in ABCB Climate Zone 1; select from our range of Class 1 and 2 Vapour Barrier products instead.

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

Declared Total System R-Values

Light Weight Cladding

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

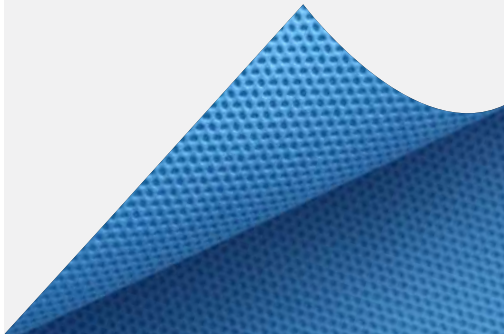
Winter	R_T **2.92**
Summer	R_T **2.77**

Brick Veneer Wall

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

Winter	R_T **2.93**
Summer	R_T **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 4859.1:2018*. 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.



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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*	>1.1403 µg/N·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 m^2)
1500 mm x 30 m (45 m^2)
1370 mm x 30 m (41.1 m^2)

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, >1.1403 µg/N.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.

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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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