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
- Triple layer construction for durability
- Low Flammability, suitable for all BALs in bushfire-prone areas
- For NCC Climate Zone 1 and north of The Tropic of Capricorn in Climate Zone 2, substitute VapourTech® Brane® VHP with a Class 1 or Class 2 Vapour Barrier such as SilverSark HVB or SilverSark xR.

## 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.

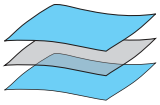
VapourTech® Brane® VHP can be used as wall wrap in brick veneer systems; however, SilverWrp™ xR Micro-perforated is the preferred membrane for brick veneer systems outside the humid tropics.

VapourTech® Brane® VHP is available in 1.37 m and 1.5 m width rolls, and a convenient 2.74 m or 3.05 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

direct to stud
with VapourTech® Brane® VHP
+ R2.5 fibrous batt.

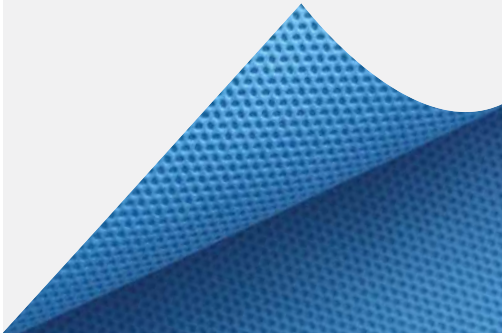
| | |
|---|---|
| Winter | $R_T$ **3.1** |
| Summer | $R_T$ **2.8** |

### Brick Veneer Wall

with VapourTech® Brane® VHP
+ R2.5 fibrous batt.

| | |
|---|---|
| Winter | $R_T$ **3.3** |
| Summer | $R_T$ **3.0** |

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 4859.1:2002/ Amdt 1:2006.* 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* and *AS/NZS 4859.1:2002, Amdt 1:2006.*

| 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% |
| Electrically Conductive | *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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