

# BRANE<sup>®</sup> VHP

LIGHT DUTY  
VERY HIGH PERMEANCE WALL WRAP



HIGH WATER BARRIER - LOW VAPOUR BARRIER

Product Code: VHP-41, VHP-82 | I/N: 0811065, 0811008

DECLARED TOTAL SYSTEM R-VALUES

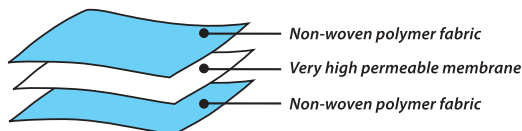
BRANE<sup>®</sup> VHP is a Very High Permeance (VHP), triple-layer Light Duty wall wrap, designed for use behind fibre cement and timber cladding in timber and steel framed buildings, and in double brick and brick veneer drained cavity wall systems. When combined with taping of overlaps, BRANE<sup>®</sup> VHP will form an airtight wrap, reducing energy loss from the building envelope.

Classified as High Water Barrier, Low Vapour Barrier, BRANE<sup>®</sup> VHP permits very high levels of condensation absorption and diffusion, allowing water vapour to escape from within the wall structure while restricting the ingress of liquid moisture. BRANE<sup>®</sup> VHP is non-reactive so may be used in conjunction with treated timbers or close to coastlines. It can also be effectively used as an air barrier in unlined areas such as attics.

- ✓ Translucent
- ✓ Non-perforated
- ✓ Low flammability
- ✓ Tear resistant
- ✓ Easy to install
- ✓ 2.74m width for quicker installation

## Construction

BRANE<sup>®</sup> VHP is a Very High Permeance (VHP) building membrane made with an advanced three-layer construction: two tough outer layers of spun-bonded fabric protecting an inner core of VHP membrane.



## Application

BRANE<sup>®</sup> VHP is used as a wall wrap behind fibre cement and timber cladding in most Australian climates.

NOTE: It is NOT recommended for this application in the humid tropics; select from our range of Medium Vapour Barrier products instead.

BRANE<sup>®</sup> VHP can be used as wall wrap in brick veneer systems; however, SILVERBRANE<sup>™</sup> HP High Permeance reflective membrane is the preferred membrane for brick veneer systems outside the humid tropics.

BRANE<sup>®</sup> VHP is available in a 1370 mm roll, and a convenient 2740 mm 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.

## Vapour Barrier Properties

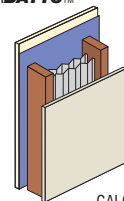
The advanced product design of BRANE<sup>®</sup> VHP ensures a very high Water Vapour Transmission (WVT) rate of 1584 grams per square metre per 24 hours under standard test conditions and a guaranteed High Water Barrier tested in accordance with AS/NZS 4200.1:1994 *Pliable building membranes and underlays, Part 1: Materials*. Ametalin classification is High Water Barrier, Very High Permeance, Low Vapour Barrier.

WATER VAPOUR TRANSMISSION RATE	1584 g/m <sup>2</sup> ·24hr (23°C, 50% RH)
AMETALIN WVT CLASSIFICATION	Very High Vapour Permeance
VAPOUR RESISTANCE	0.08 MN·s/g
UV RESISTANCE	3 Months

The contribution of this product to the total R-value depends on installation and environmental conditions. The R-value will be reduced in the event of the accumulation of dust on upward facing surfaces and in those cavities that are ventilated.

### L.C. / WEATHERBOARD WALL

with one layer of BRANE<sup>®</sup> VHP + two layers of PLEATED SILVERBATT<sup>™</sup>

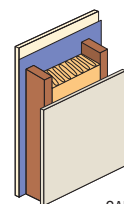


CALCULATION REF: 299r39b

WINTER R<sub>T</sub> 3.0 SUMMER R<sub>T</sub> 2.6

### L.C. / WEATHERBOARD WALL

with one layer of BRANE<sup>®</sup> VHP + R2.5 Fibrous Batt

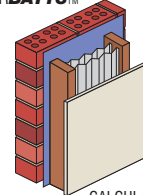


CALCULATION REF: 12388

WINTER R<sub>T</sub> 3.3 SUMMER R<sub>T</sub> 3.2

### BRICK VENEER WALL

with one layer of BRANE<sup>®</sup> VHP + two layers of PLEATED SILVERBATT<sup>™</sup>



CALCULATION REF: 299w321

WINTER R<sub>T</sub> 3.4 SUMMER R<sub>T</sub> 2.9

BRANE<sup>®</sup> VHP



VHP



## Classification

Brane® VHP classifications in accordance with AS/NZS 4200.1:1994

PRODUCT		Brane® VHP	AS/NZS 4200.1:1994
FLAMMABILITY INDEX	AS 1530.2-1993	Low	Low ≤ 5
DUTY	AS/NZS 4200.1:1994	Light *	Classification
RESISTANCE TO WATER PENETRATION	AS/NZS 4201.4:1994	High	High
VAPOUR BARRIER	ASTM E96	Low, PROCEDURE B, WET CUP TEST	Classification
MACHINE DIRECTION TENSILE STRENGTH	AS 1301.448s-91	8.6 kN/m	Min 7.5 kN/m
LATERAL DIRECTION TENSILE STRENGTH	AS 1301.448s-91	6.9 kN/m	Min 4.5 kN/m
MACHINE DIRECTION EDGE TEAR	TAPPI T 470 om-89	214 N	Min 45 N
LATERAL DIRECTION EDGE TEAR	TAPPI T 470 om-89	117 N	Min 45 N
BURST STRENGTH	AS 2001.2.19-1988	254 N	200 N
EMITTANCE	AS/NZS 4201.5	0.42	Value
CALCULATED REFLECTANCE		58%	

\* Based on minimum value for burst strength.

### WATER VAPOUR TRANSMISSION RATE:

1584 g/m<sup>2</sup>·24hr (23°C, 50% RH)

### AMETALIN CLASSIFICATION:

VERY HIGH PERMEANCE, LOW VAPOUR BARRIER

## Vapour Barrier Properties

Brane® VHP has a Water Vapour Transmission (WVT) rate of 1584 grams per square metre per 24 hours tested at 23°C, 50% Relative Humidity (RH). Vapour Resistance 0.08 MN·s/g. Ametalin classification is Very High Permeance, Low Vapour Barrier.

## NCC/BCA Compliant

Brane® VHP complies with AS/NZS 4200.1:1994, and therefore meets all the requirements of the *National Construction Code/ Building Code of Australia* for insulation and pliable building membranes.

## BUSHFIRE ATTACK LEVELS

Brane® VHP complies with AS 3959-2009 *Construction of buildings in bushfire-prone areas* for use in wall systems BAL – LOW to BAL – FZ.

## Total System R-values

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.

## Reflectivity

Non-reflective in accordance with AS/NZS 4200.2:1994 *Pliable Building Membranes and Underlays, Part 1: Materials*.

## Handling and Storage

This product should be stored under cover in a clean, dry place in the pack provided. Do not bend or crush roll.

## Dimensions

Brane® VHP is sold in sizes:

2740 mm x 30 m (82.2 m<sup>2</sup>)

1370 mm x 30 m (41.1 m<sup>2</sup>)

## Specification Notes

When specifying, state the following:

**Product Name:** Brane® VHP

The pliable building membrane to be installed shall be Brane® VHP very high permeance wall wrap. Product is manufactured by Ametalin and shall be installed in accordance with AS/NZS 4200.2: 1994 *Pliable Building Membranes and Underlays, Part 2: Installation Requirements*.

Water Vapour Transmission (WVT): 1584 g/m<sup>2</sup>·24hr

Vapour Resistance: 0.08 MN·s/g

Vapour Barrier Classification: Low

Water Barrier Classification: High

Duty: Light in accordance with AS/NZS 4200.1:1994

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AUSTRALIAN DESIGNED, AUSTRALIAN OWNED.

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Manufacturers of building membranes | insulation products | flexible packaging



ametalin

raising the standard

## Health and Safety Information

Ametalin has assessed Brane<sup>®</sup> VHP according to the criteria outlined in the *National Occupational Health and Safety Commission (NOHSC):1008 (1998)* and *NOHSC: 1005 (1999)*. As a result of the assessment, this product is classified as non-hazardous according to the NOHSC criteria. To reduce risk of UV damage when installing this product, wear protective clothing, safety glasses and sunscreen, and work in the shade wherever practical. Take care when installing Brane<sup>®</sup> VHP in windy conditions, as the wide width of the product can act as a sail.

## Installation

Brane<sup>®</sup> VHP should be installed in accordance with *AS/NZS 4200.2:1994 Pliable Building Membranes and Underlays, Part 2: Installation Requirements*.

### GENERAL

Brane<sup>®</sup> VHP should be installed horizontally as a continuous membrane by fixing to all framing members with the printed side facing out. Brane<sup>®</sup> VHP should extend from the top plate to the bottom plate on concrete slabs or bearers in timber construction. Fixings should be galvanised clouts or staples for timber construction and tech screws for fastening to steel constructions. In high wind areas, it is recommended to install using non-rip caps on clouts, staples or tech screws. Horizontal, vertical and end overlaps must be 150 mm, with all top layers overlapping the outside of lower layers to prevent water ingress. Stagger any vertical overlaps.

Any damage made to Brane<sup>®</sup> VHP during installation including holes and tears must be repaired. Brane<sup>®</sup> VHP is not designed to withstand prolonged direct exposure to UV light and the elements. Outer cladding should be installed without delay.

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