

## Trade Select™ VapourTech® Brane® VHP Technical Data Sheet

### Light Wall Duty, Vapour permeable, wall insulation

For moisture control behind all types of cladding and in all wall systems in climate zones 2-8



Trade Select™ 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.

Trade Select™ 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. Trade Select™ VapourTech® Brane® VHP is chemically non-reactive in conjunction with treated timber and salt conditions close to coastlines.

- > Class 4 Vapour Permeable
- > Water Barrier and Air Permeable
- > 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

Trade Select™ VapourTech® Brane® 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 Climate Zone 1; select from our range of Class 1 and 2 Vapour Barrier products instead.

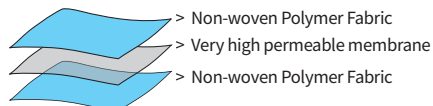
Trade Select™ VapourTech® Brane® VHP can be used as wall wrap in brick veneer systems; however, SilverSark® xR Micro-perforated is the preferred membrane for brick veneer systems outside the humid tropics.

Trade Select™ 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

Trade Select™ 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.



### 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.

The contribution of this product to the total system R-value depends on installation and environmental conditions.

### Declared Total System R-Values

#### Light Weight Cladding

Direct to stud with  
Trade Select™ VapourTech®  
Brane® VHP  
+ R2.5 Fibrous Batt.

Winter **R<sub>t</sub> 3.1**

Summer **R<sub>t</sub> 2.8**

#### Brick Veneer Wall

with Trade Select™  
VapourTech® Brane® VHP  
+ R2.5 Fibrous Batt.

Winter **R<sub>t</sub> 3.3**

Summer **R<sub>t</sub> 3.0**

## Material Properties and Classifications

Trade Select™ 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)
Material 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 Barrier	Class 1 to 4
Vapour Permeance	ASTM E96	12.8484 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	Bright side: 0.42, Anti-glare side: 0.42	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

Trade Select™ 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 AS3959-2009 *Construction of buildings in bushfire-prone areas* for use in wall systems BAL – LOW to BAL – FZ.

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

### Dimensions

3050 mm x 30 m (91 m<sup>2</sup>)

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

1500 mm x 30 m (45 m<sup>2</sup>)

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

Nominal Thickness: 0.38 mm

### Specification Notes

When specifying, state the following:

Product Name: Trade Select™ VapourTech® Brane® VHP

The pliable building membrane to be installed shall be Trade Select™ 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: 0.42, 0.42

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

Vapour Control Classification: Class 4 Vapour Permeable, 12.8484 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:

<http://www.tradeselect.co/>

### Handling and Storage

Store this product undercover in a clean, dry place in the pack provided out of contact with alkaline products, cement and mortar.

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

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