

Trade Select™ Sarking HVB

Product Code: TSXHD-HVB

Reflective wall insulation

For Climate Zone 1 wall systems in residential and commercial buildings



Trade Select™ Sarking HVB is as high vapour barrier wall wrap designed specifically for use in Climate Zone 1 and regions north of the Tropic of Capricorn in Climate Zone 2. The reflective foil side provides extra R-Value when installed facing an air cavity, and the multi-layer structure provides superior strength, flexibility and durability.

Classified as Class 1 Vapour Barrier, Trade Select™ Sarking HVB functions as a barrier to vapour, radiant heat, moisture ingress, draughts and dust penetration.

- > Class 1 Vapour Barrier
- > Air and Water Barrier
- > Superior strength, puncture resistant
- > Low flammability, suitable for all BALs in bushfire-prone areas
- > Can also be used for tile and metal roofs

Application

Trade Select™ Sarking HVB is designed for use where water barrier and Class 1 Vapour Barrier properties are required for use as a roof sarking and wall wrap in residential and commercial buildings in ABCB Climate Zone 1 and regions north of the Tropic of Capricorn in Climate Zone 2.

NOTE: Condensation risks should be addressed when the product is positioned on the cold side of constructions as the risks may increase.

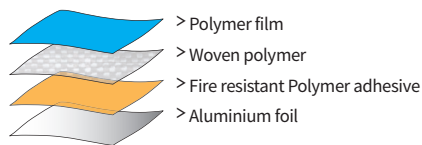
For ABCB Climate Zones 6, 7, 8 use a Class 3 or better permeable wrap on the outside of the insulation to allow ambient vapour to escape without condensing into liquid. Class 3 Vapour Permeable wrap for typical brick veneer and cavity constructions or Class 4

Vapour Permeable wrap, water barrier for light weight clad constructions.

Construction

Trade Select™ Sarking HVB is a flexible four layer product made with a combination of anti-oxidant UV-stabilised woven polypropylene, 97% reflective aluminium foil, and fire-resistant polymer adhesive, backed by a polymer flood coat.

In order to minimise shrinkage after installation, our products are pre-shrunk during the manufacturing process.



Ametalin utilises Advanced Laminating Technology; the polymer adhesive remains tacky for an indefinite period and provides superior resistance to heat, fire and delamination.

Total System R-Values

Brick Veneer Wall

with Trade Select™ Sarking HVB + R2.7 fibrous batt

Winter **R_t 2.93**

Summer **R_t 2.78**

Residential Roof

22° pitch with Trade Select™ Sarking HVB, unventilated

Winter **R_t 0.93**

Summer **R_t 1.51**

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 readers are advised to seek advice from a qualified engineer, based on actual site conditions.

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

Material Properties and Classifications

Trade Select™ Sarking HVB classifications in accordance with AS/NZS 4200.1:2017 and AS/NZS 4859.1:2018

Criteria	Reference	Result	Requirement
Flammability Index	AS 1530.2-1993	Low ≤ 5	High (> 5) / Low (≤ 5)
Material Thickness		0.17 mm	Value
Duty	AS/NZS 4200.1:2017	Extra Heavy	Classification
Tensile Strength Machine Direction	AS 1301.448s-91	15.2 kN/m	Min 13.0 kN/m
Tensile Strength Lateral Direction	AS 1301.448s-91	12.4 kN/m	Min 10.5 kN/m
Edge Tear Machine Direction	TAPPI T 470 om-89	646 N	Min 90 N
Edge Tear Lateral Direction	TAPPI T 470 om-89	555 N	Min 90 N
Vapour Control	ASTM E96	Class 1 Vapour Barrier	Class 1 to 4
Vapour Permeance	ASTM E96	0.002 µg/N.s	Value
Water Control	AS/NZS 4201.4:1994	Water Barrier	Classification
Air Control	AS/NZS 4200.1:2017	Air Barrier	Classification
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	Conductive	Classification
Emittance Value	AS/NZS 4201.5:1994	Anti-glare side: 0.90, Foil side: 0.03	Value
Emittance Classification	AS/NZS 4200.1:2017	IR Non-reflective, IR Reflective	Classification
Emittance Category	AS/NZS 4200.1:2017	RN	Category

NCC Compliant

Trade Select™ Sarking HVB complies with AS/NZS 4859.1:2018 and 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.

Vapour Permeance

Vapour Permeance: 0.002 µg/N.s

Vapour Resistance: 613.7 MN.s/g

WVTR: 0.190 g/m².24hr

Tested in accordance with AS/NZS 4200.1:2017

A detailed hygrothermal analysis is recommended for moisture control in building design.

Fire Performance

Flammability Index

Low (≤5)

Tested to AS 1530.2-1993 - *Methods for fire tests on building materials, components and structures Part 2: Test for flammability of materials.*

Bushfire Attack Levels

Complies with AS 3959-2018 *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

1350 mm x 60 m (81 m²)

Nominal thickness: 0.17 mm

Specification Notes

When specifying, state the following:

Product Name: Trade Select™ Sarking HVB

The insulation to be installed shall be Trade Select™ Sarking HVB, High Vapour Barrier single-sided reflective laminate and shall be installed in accordance with AS/NZS 4200.2: 2017 *Pliable Building Membranes and Underlays, Part 2: Installation Requirements.*

Emittance Value: 0.90, 0.03

Emittance Classification: IR Non-reflective, IR Reflective

Water Vapour Transmission: 0.190 g/m².24hr

Vapour Permeance: 0.002 µg/N.s

Vapour Barrier Classification: Class 1

Water Barrier Classification: Water Barrier

Duty: Extra Heavy 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.

Australian designed for Australian conditions. Manufactured by: 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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