

Trade Select® Wall Wrap MD Micro-perforated

Product Code: TSMD-B

Vapour Permeable reflective wall insulation

For use in brick veneer and drained cavity wall systems in residential and commercial buildings in Climate Zones 2-8.



Trade Select® Wall Wrap Micro-perforated is a Medium Duty, Vapour Permeable wall wrap designed for use in brick veneer and drained cavity wall systems to reduce the risk of interstitial condensation. 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 4 Vapour Permeable, a dense pattern of micro-perforations allows water vapour to escape from the wall structure. Trade Select® Wall Wrap Micro-perforated also acts as a barrier to air, radiant heat and dust penetration.

- > Micro-perforated to Class 4 Vapour Permeable
- > Strong and light weight
- > Air Barrier
- > Low Flammability, suitable for all BALs in bushfire-prone areas
- > 97% reflective

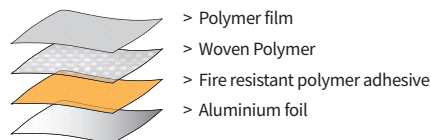
Application

Class 4 Vapour Permeable wall wraps are not recommended for wet tropical climate zones.

Construction

Trade Select® Wall Wrap Micro-perforated 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 UV-stabilised 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 indefinitely and provides superior resistance to heat, fire and delamination.

Total System R-Values

(Based on NCC 2019)

Brick Veneer Wall
with Trade Select®
Wall Wrap Micro-perforated

Winter **R_t 1.29**

Summer **R_t 1.21**

Brick Veneer Wall
with Trade Select®
Wall Wrap Micro-perforated
+ 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 4859.2:2018. These values have been calculated specifically for use under NCC 2019 requirements and may not be valid for compliance with other editions. 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® Wall Wrap Micro-perforated Medium duty classifications in accordance with AS/NZS 4200.1:2017 and AS/NZS 4859.1:2018

Criteria	Reference	Result	Requirement
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%
Nominal Thickness		0.10 mm	Value
Electrical Conductivity	AS/NZS 4200.1:2017	Conductive	Classification
Duty	AS/NZS 4200.1:2017	Medium	Classification
Tensile Strength Machine Direction	AS 1301.448s-91	11.5 kN/m	Min 9.5 kN/m
Tensile Strength Lateral Direction	AS 1301.448s-91	9.4 kN/m	Min 6.0 kN/m
Edge Tear Machine Direction	TAPPI T 470 om-89	444 N	Min 65 N
Edge Tear Lateral Direction	TAPPI T 470 om-89	358 N	Min 65 N
Air Control	AS/NZS 4200.1:2017	Air Barrier	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
Vapour Control	ASTM E96	Class 4 Vapour Permeable	Class 1 to 4
Vapour Permeance	ASTM E96	1.717 µg/N·s	Value
Water Control	AS/NZS 4201.4:1994	Non-Water Barrier	Classification
Flammability Index	AS 1530.2-1993	Low ≤ 5	High (> 5) / Low (≤ 5)

NCC Compliant

Trade Select® Wall Wrap Micro-perforated 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 insulation and sarking-type materials.

Trade Select® Wall Wrap Micro-perforated is classified as a Non-Water Barrier under AS/NZS 4200.1:2017 *Pliable building membranes and underlays, Part 1: Material, which requires testing under a 100 mm water column.*

Vapour Permeance

Vapour Permeance: 1.717 µg/N·s

Vapour Resistance: 0.6 MN·s/g

WVTR: 200.685 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 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 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.

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 © 2024 Ametalin All Rights Reserved. Ametalin is a division of Amalgamated Metal Industries Pty. Ltd. Product information in this publication and otherwise supplied to users is based on our general experience and is given in good faith, but due to factors outside our knowledge and control which may affect the use of products, no warranty is given or implied with respect to this information or the product itself regarding the suitability of the product for any particular purpose. The usage of this and other building membranes will affect moisture migration in the building element. The purchaser should independently determine the suitability of the product for the intended purpose. For large projects with complex air-conditioning and condensation issues, designers may wish to contact our technical department. Product colour may vary from batch to batch. Amalgamated Metal Industries Pty. Ltd. reserves the right to amend product specifications without prior notice. Information provided is considered to be true and correct at the time of publication. Complete details including installation instructions are available on our website: www.tradeselect.co TPM-45764-3

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Dimensions

1350 mm x 60 m (81 m²)

1350 mm x 30 m (40.5 m²)

1500 mm x 30 m (45 m²)

Nominal thickness: 0.10 mm

Specification Notes

When specifying, state the following:

Product Name: Trade Select® Wall Wrap Micro-perforated

The insulation to be installed shall be Trade Select® Wall Wrap Micro-perforated, Vapour Permeable reflective wall wrap. Product is manufactured by Ametalin and shall be installed in accordance with AS 4200.2: 1994 *Pliable Building Membranes and Underlays, Part 2: Installation.*

Emittance Value: 0.90, 0.03

Emittance Classification: IR Non-reflective, IR Reflective

Vapour Control Classification: Class 4 Vapour Permeable, 1.717 µg/N·s

Water Barrier Classification: Non-water Barrier

Duty: Medium in accordance with AS/NZS 4200.1:2017

Complete details available on our website: 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.