

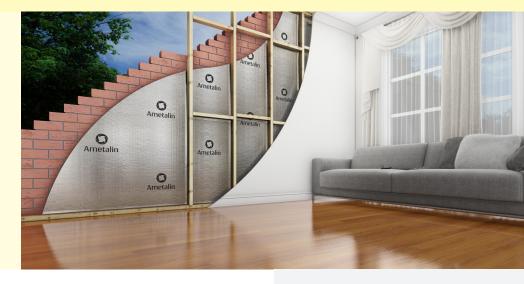
Performance insulation for a greener world

SilverWrap™ Micro-perforated MD

Product Code: MD-B

Vapour Permeable reflective wall insulation

For use in brick veneer and drained cavity wall systems in residential and commercial buildings



SilverWrap™ 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 3 Vapour Permeable, a dense pattern of micro-perforations allows water vapour to escape from the wall structure. SilverWrap™ Micro-perforated also acts as a barrier to air, radiant heat and dust penetration.

- Micro-perforated to Class 3
 Vapour Permeable
- > Strong and light weight
- > Air Barrier
- > Low Flammability, suitable for use in all BALs in bushfire-prone areas
- > 97% reflective

Application

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

Construction

SilverWrap™ 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.



- > Polymer film
- > Woven Polymer
- > Fire resistant polymer adhesive
- > Aluminium foil

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

Declared Total System R-Values

Brick Veneer Wall

with SilverWrap™ Micro-perforated

Winter $\mathbf{R}_{\scriptscriptstyle T}$ **1.29**

Summer **R**_⊤ **1.21**

Brick Veneer Wall

with SilverWrap™ Micro-perforated + R2.7 fibrous batt.

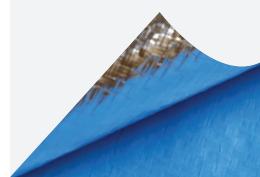
Winter $R_{\scriptscriptstyle T}$ 2.93

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 4859.1:2018. 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

SilverWrap™ Micro-perforated Medium duty 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)
Nominal Thickness		0.10 mm	Value
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
Vapour Control	ASTM E96	Class 3 Vapour Permeable	Class 1 to 4
Vapour Permeance	ASTM E96	0.2433 μg/N.s	Value
Water Control	AS/NZS 4201.4:1994	Non-Water Barrier	Classification
Air Control	AS/NZS 4200.1:2017	Air 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	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

SilverWrap™ 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.

SilverWrap™ 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: 0.2433 μg/N·s Vapour Resistance: 4.11 MN•s/g WVTR: 30.0 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.

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: Ametalin SilverWrap™ Micro-perforated

The insulation to be installed shall be Ametalin SilverWrap™ 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 3 Vapour Permeable, 0.2433 ug/N·s

Water Barrier Classification: Non-water Barrier Duty: Medium 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 out of contact with alkaline products, cement and mortar.

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