

SilverWrap™ Micro-perforated LD

Product Code: LD-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 Light 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. SilverWrap™ Micro-perforated also acts as a barrier to air, radiant heat and dust penetration.

- > Micro-perforated to Class 4 Vapour Permeable
- > Ideal for drained cavity systems in Climate Zones 6 - 8
- > 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.



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 **R_T 1.29**
Summer **R_T 1.21**

Brick Veneer Wall
with SilverWrap™
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 4859.1:2018. 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. 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.

Material Properties and Classifications

SilverWrap™ Micro-perforated Light 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		0.09 mm	Value
Duty	AS/NZS 4200.1:2017	Light	Classification
Tensile Strength Machine Direction	AS 1301.448s-91	10.9 kN/m	Min 7.5 kN/m
Tensile Strength Lateral Direction	AS 1301.448s-91	8.5 kN/m	Min 4.5 kN/m
Edge Tear Machine Direction	TAPPI T 470 om-89	444 N	Min 45 N
Edge Tear Lateral Direction	TAPPI T 470 om-89	372 N	Min 45 N
Vapour Control	ASTM E96	Class 4 Vapour Permeable	Class 1 to 4
Vapour Permeance	ASTM E96	1.600 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: 1.600 µg/N.s
Vapour Resistance: 0.625 MN.s/g
WVTR: 194.0 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 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)

1500 mm x 30 m (45m²)

Nominal thickness: 0.09 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 and shall be installed in accordance with AS 4200.2:2017 *Pliable Building Membranes and Underlays, Part 2: Installation*.

Emittance Value: 0.90, 0.03

Emittance Classification: IR Non-reflective, IR Reflective

Vapour Control Classification: Vapour Permeable, 1.600 µg/N.s

Water Barrier Classification: Non-water Barrier

Air Barrier Classification: Air Barrier

Duty: Light 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.

Performance insulation for a greener world

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Ametalin

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 S 5108 T: +61 8 8285 6955 F: +61 8 8285 5911 E: info@ametalin.com

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