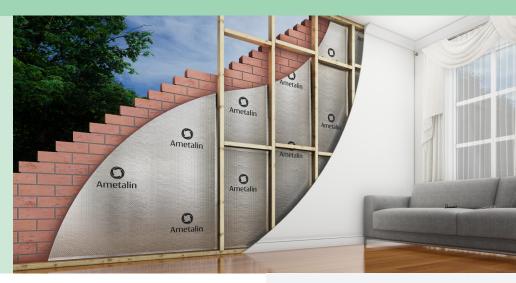


Performance insulation for a greener world

### SilverWrap® Micro-perforated HD

# Vapour Permeable reflective wall insulation

Micro-perforated Class 3 Vapour Permeable



SilverWrap® Micro-perforated is a Heavy Duty, Vapour Permeable wall wrap, designed for use in brick veneer and drained cavity wall systems to reduce the risk of interstitial condensation.

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

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

#### **Application**

Class 3 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
- > Polymer adhesive
- > Aluminium foil

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

## Total System R-Values Brick Veneer Wall

with SilverWrap® Micro-perforated

Product Code: HD-B

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

Summer **R**<sub>+</sub> **1.21** 

#### **Brick Veneer Wall**

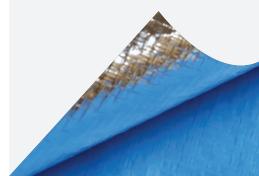
with SilverWrap® Micro-perforated + R2.7 fibrous batt

Winter **R**<sub>⊤</sub> **2.93** 

Summer **R**<sub>⊤</sub> **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. 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 Heavy 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		0.12 mm	Value
Duty	AS/NZS 4200.1:2017	Heavy	Classification
Tensile Strength Machine Direction	AS 1301.448s-91	13.7 kN/m	Min 12.5 kN/m
Tensile Strength Lateral Direction	AS 1301.448s-91	8.3 kN/m	Min 7.5 kN/m
Edge Tear Machine Direction	TAPPI T 470 om-89	565 N	Min 80 N
Edge Tear Lateral Direction	TAPPI T 470 om-89	380 N	Min 80 N
Vapour Control	ASTM E96	Class 3 Vapour Permeable	Class 1 to 4
Vapour Permeance	ASTM E96	0.3341 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: 0.3341 μg/N·s Vapour Resistance: 2.9931 MN·s/g WVTR: 40.53 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.

instructions are available on our website: www.ametalin.com APM-23247-7

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

#### **Dimensions**

 $1350 \text{ mm} \times 60 \text{ m} (81 \text{ m}^2)$ 

1500 mm x 60 m (90 m<sup>2</sup>) 1500 mm x 30 m (45 m<sup>2</sup>)

Nominal thickness: 0.12 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 single-sided 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 Category: IR Non-reflective, IR Reflective Vapour Control Classification: Vapour Permeable, 0.3341 µg/N·s

Water Control Classification: Non-water Barrier Duty: Heavy in accordance with AS/NZS 4200.1:2017

Complete details available on our website: https://www.ametalin.com/tools/how-to-specify/

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

Australian designed for Australian conditions. Ametalin 9-11 Playford Crescent, Salisbury North SA 5108 T: +618 8285 6955 F: +618 8285 5911 E: info@ametalin.com

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