

Performance insulation for a greener world

# SilverWrap<sup>®</sup> MD

# Product Code: MD

# **Reflective wall insulation**

For wall systems in residential and commercial buildings



SilverWrap® is a Medium Duty reflective wall wrap designed for use in all wall system types, and is also suitable for use under metal roofs. 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 a Water Barrier and Class 2 Vapour Barrier, SilverWrap® also acts as a barrier to air, radiant heat, moisture ingress and dust penetration.

- > Medium Duty
- > The traditional lightweight weather barrier for your home
- > Achieves Group 1 Fire performance classification for wall/ceiling lining
- Water and Air barrier, Class 2 Vapour Barrier
- > Low flammability, suitable for all BALs in bushfire-prone areas

# Application

SilverWrap® may also be used as a facing material to glasswool, rockwool and semirigid bulk insulation provided processing temperatures do not exceed 80°C to ensure no significant changes in the material supplied.

SilverWrap® is designed for use as a roof sarking in residential and commercial buildings in all climate zone regions of Australia and as a wall wrap in Climate Zones 1 to 5.

## Construction

SilverWrap® 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.

## **Total System R-Values**

Light Weight Cladding

direct to stud with SilverWrap<sup>®</sup> Winter  $\mathbf{R}_{\tau}$  **1.01** Summer  $\mathbf{R}_{\tau}$  **0.92** 

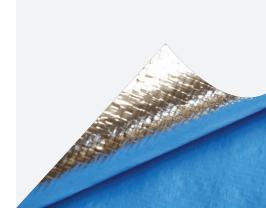
#### **Brick Veneer Wall**

with SilverWrap® + R2.7 fibrous batt.

Winter
**R**<sub>τ</sub> **2.93** 

Summer
**R**<sub>τ</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, seek advice based on actual site conditions from a qualified licensed engineer. The contribution of this product to the total system R-value depends on installation and environmental conditions.



## **Material Properties and Classifications**

SilverWrap® 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	11.8 kN/m	Min 9.5 kN/m
Tensile Strength Lateral Direction	AS 1301.448s-91	9.3 kN/m	Min 6.0 kN/m
Edge Tear Machine Direction	TAPPI T 470 om-89	500 N	Min 65 N
Edge Tear Lateral Direction	TAPPI T 470 om-89	382 N	Min 65 N
Vapour Control	ASTM E96	Class 2 Vapour Barrier	Class 1 to 4
Vapour Permeance	ASTM E96	0.0131 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 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%
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**

SilverWrap® 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, pliable building membranes and sarking-type materials.

## **Fire Performance**

#### **Group Number Assessment**

Group 1

Assessed in accordance with AS 5637.1:2015 Determination of fire hazard properties by Ignis Solutions professional fire engineers.

#### **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 bushfireprone 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 30 m (40.5 m<sup>2</sup>) 1350 mm x 60 m (81 m<sup>2</sup>) Nominal thickness: 0.10 mm 1500 mm x 30 m (45 m<sup>2</sup>)

## **Specification Notes**

When specifying, state the following: Product Name: Ametalin SilverWrap® Medium Duty

The insulation to be installed shall be Ametalin SilverWrap® Medium Duty single-sided reflective laminate 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 Barrier Classification: Class 2 Vapour Barrier, 0.0131 µg/N·s Water Barrier Classification: 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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Durability may be affected by environmental factors, including chemical and airborne pollutants, if used in industrial or farm buildings.