Ametalin

Performance insulation for a greener world

SilverWrap® 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 wall systems, 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
- 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

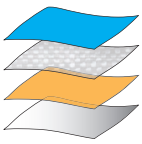
Application

SilverWrap® may also be used as a facing material to glasswool, rockwool and semi-rigid 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 3.

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

(Based on NCC 2019)

Light Weight Cladding

direct to stud with SilverWrap®

Winter	R_T **1.01**
Summer	R_T **0.92**

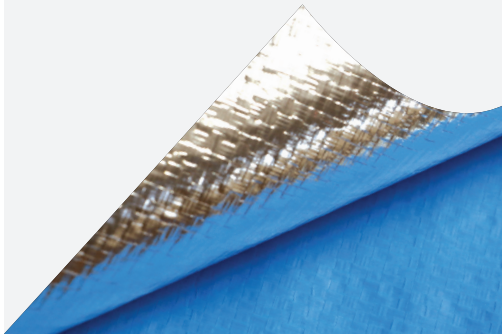
Brick Veneer Wall

with SilverWrap® + 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, 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.



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Material Properties and Classifications

SilverWrap® Medium Duty classifications in accordance with *AS/NZS 4200.1:2017*

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*	11.8 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
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 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
Flammability Index	*AS 1530.2-1993*	Low ≤ 5	High (> 5) / Low (≤ 5)

NCC Compliant

SilverWrap® is compliant for use in Australia according to the *National Construction Code* for Pliable Building Membranes and Sarking-type Materials when correctly specified and installed.

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 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 30 m (40.5 m^2)
1350 mm x 60 m (81 m^2)
1500 mm x 30 m (45 m^2)
Nominal thickness: 0.10 mm

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: 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.
Australian designed for Australian conditions. Ametalin 9-11 Playford Crescent, Salisbury North SA 5108 T: +61 8 8285 6955 F: +61 8 8285 5911 E: info@ametalin.com
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