

## SilverWrap® LD

Product Code: LD

### Reflective wall insulation

For wall systems in residential and commercial buildings



SilverWrap® is a Light Duty wall wrap designed for use in Climate Zones 1, 2, 3, 4 and 5 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, tear resistance, flexibility and durability. Classified as an Air Barrier, Water Barrier and Class 2 Vapour Barrier, SilverWrap™ also acts as a barrier to radiant heat, moisture ingress, draughts and dust penetration.

- > Tear resistant light weight 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

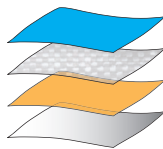
SilverWrap® may also be used as a facing material to glasswool, rockwool and semi-rigid bulk insulation provided processing temperatures do not exceed 80°C to ensure no significant changes in the material supplied.

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 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®

Winter **R<sub>t</sub> 1.01**

Summer **R<sub>t</sub> 0.92**

#### Brick Veneer Wall

with SilverWrap™ + R2.7 fibrous batt

Winter **R<sub>t</sub> 2.93**

Summer **R<sub>t</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® 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 $\leq 5$	High ( $> 5$ ) / Low ( $\leq 5$ )
Nominal Thickness		0.09 mm	Value
Duty	AS/NZS 4200.1:2017	Light	Classification
Tensile Strength Machine Direction	AS 1301.448s-91	8.9 kN/m	Min 7.5 kN/m
Tensile Strength Lateral Direction	AS 1301.448s-91	7.3 kN/m	Min 4.5 kN/m
Edge Tear Machine Direction	TAPPI T 470 om-89	375 N	Min 45 N
Edge Tear Lateral Direction	TAPPI T 470 om-89	338 N	Min 45 N
Vapour Control	ASTM E96	Class 2 Vapour Barrier	Class 1 to 4
Vapour Permeance	ASTM E96	0.0152 $\mu\text{g}/\text{N}\cdot\text{s}$	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	Electrically Conductive	Classification
Emittance Value	AS/NZS 4201.5:1994	Anti-glare side: 0.9, 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 ( $\leq 5$ )

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 10 m (13.5 m<sup>2</sup>)      1500 mm x 30 m (45 m<sup>2</sup>)

1350 mm x 60 m (81 m<sup>2</sup>)

Nominal thickness: 0.09 mm

## Specification Notes

When specifying, state the following:

Product Name: Ametalin SilverWrap® Light Duty

The insulation to be installed shall be Ametalin SilverWrap® Light 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: 0.9, 0.03,

Emittance Classification: IR Non-reflective, IR Reflective

Vapour Barrier Classification: Class 2 Vapour Barrier, 0.0152  $\mu\text{g}/\text{N}\cdot\text{s}$

Water Barrier Classification: Water 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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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](mailto:info@ametalin.com)

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