SILVER WRAP

MEDIUM DUTY



Product Code: MD | I/N: 0810104, 0810479

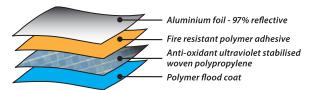
SILVER**WRAP**™ is a Medium Duty wall wrap designed for use in all wall system types, and is also suitable for use under metal roofs. The reflective foil side provides extra R-value when installed facing an air cavity, and the multi-layer structure provides superior strength, flexibility and durability. Classified as High Water Barrier, Medium Vapour Barrier, SILVER**WRAP**™ acts as a barrier to radiant heat, moisture ingress, draughts and dust penetration.

✓ 97% Reflective Construction

High strength, light weight

Low flammability

SILVER $WRAP_{TM}$ is a flexible four layer product made with a combination of anti-oxidant ultra-violet stabilised woven polypropylene, 97% reflective aluminium foil, and fire-resistant polymer adhesive, backed by a 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 for an indefinite period and provides superior resistance to heat, fire and delamination.

Application

SILVER $WRAP_{TM}$ is designed for use as a wall wrap in residential and office buildings in all regions of Australia, and is also suitable for use under metal roofs. SILVER**WRAP**™ 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. Durability may be affected by environmental factors, including airborne pollutants, if used in industrial or farm buildings.

NOTE: High Water Barrier, Medium Vapour Barrier wall wraps are suitable for wet tropical climate zones.

Tear Resistance

SILVER $WRAP_{\text{TM}}$ is an extremely lightweight product with superior tear resistance. SILVER WRAP_{TM} is guaranteed to meet or exceed the minimum performance levels for Medium Duty rating required under AS/NZS 4200.1:2017.

Actual Test Value Minimum Value* 452 N / 25 mm Machine direction edge tear resistance 65 N Lateral direction edge tear resistance 341 N / 25 mm 65 N

* Minimum value required to qualify as Medium Duty under AS/NZS 4200.1:2017

DECLARED TOTAL SYSTEM R-VALUES

The contribution of this product to the total 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.

LIGHT WEIGHT CLADDING (direct to stud) with one layer of SILVER WRAPTM



CALCULATION REF: 299w3226

WINTER

R_T 1.0 SUMMER R_T 0.9

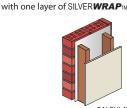
LIGHT WEIGHT CLADDING (direct to stud) with one layer of SILVER WRAP TM + two layers of PLEATED SILVERBATTS



CALCULATION REF: 299w39h

WINTER R.3.1 SUMMER R.2.7

BRICK VENEER



CALCULATION REF: 299w3221

R. 1.3 SUMMER R. 1.2







MEDIUM DUTY

REFLECTIVE INSULATION WALL WRAP

Classification

SILVER WRAP_{TM} classifications in accordance with AS/NZS 4200.1:2017

PRODUCT		SILVER WRAP TM	AS/NZS 4200.1:2017
FLAMMABILITY INDEX	AS 1530.2-1993	Low	Low ≤ 5
DUTY	AS/NZS 4200.1:2017	Medium	Classification
EMITTANCE	AS/NZS 4201.5:1994	0.03	Value
REFLECTIVITY	AS/NZS 4200.1:2017	97%	Value
RESISTANCE TO WATER PENETRATION	AS/NZS 4201.4:1994	High	High
VAPOUR BARRIER	ASTM E96	Medium, PROCEDURE B, WET CUPTEST	Classification
MACHINE DIRECTION TENSILE STRENGTH	AS 1301.448s-91	11.9 kN/m	Min 9.5 kN/m
LATERAL DIRECTION TENSILE STRENGTH	AS 1301.448s-91	9.7 kN/m	Min 6.0 kN/m
MACHINE DIRECTION EDGE TEAR	TAPPI T 470 om-89	452 N	Min 65 N
LATERAL DIRECTION EDGE TEAR	TAPPI T 470 om-89	341 N	Min 65 N
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%

WATER VAPOUR TRANSMISSION RATE: 1.44 g/m²·24hr (23°C, 50% RH)

AMETALIN CLASSIFICATION: MEDIUM VAPOUR BARRIER

Vapour Barrier Properties

SILVER**WRAP**™ has a Water Vapour Transmission (WVT) rate of 1.44 grams per square metre per 24 hours tested at 23°C, 50% Relative Humidity (RH). Vapour Resistance 85.61 MN·s/g. Ametalin classification is Medium Vapour Barrier.

Vapour barriers can be specified for use under linings in buildings. A detailed hygrothermal analysis is recommended for moisture control in building design.

NCC Compliant

SILVER**WRAP**™ complies with AS/NZS 4859.1:2002/Amdt 1:2006 and AS/NZS 4200.1:2017, and therefore meets all the requirements of the National Construction Code for insulation and pliable building membranes.

BUSHFIRE ATTACK LEVELS

SILVERWRAP_{TM} complies with AS 3959-2009 Construction of buildings in bushfire-prone areas for use in wall systems BAL – LOW to BAL - FZ.

Total System R-values

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 4859.1:2002/Amdt 1:2006. For detailed design of building systems, seek advice based on actual site conditions from a qualified licensed engineer.

Reflectivity

SILVER WRAP is made with aluminium foil laminates with reflectivity of 97% and emissivity of 0.03, in compliance with AS/NZS 4200.1.6.3.

Storage

This product should be stored under cover in a clean, dry place in the pack provided.

Dimensions

SILVER $WRAP_{TM}$ is sold in sizes: 1350 mm x 60 m (81 m²) 1350 mm x 30 m (40.5 m²) Bulk rolls available upon request.

Specification Notes

When specifying, state the following:

Product Name: SILVERWRAP™ Medium Duty

The insulation to be installed shall be SILVER WRAP™ Medium Duty single-sided reflective laminate, emittance bright side 0.03. Product is manufactured by Ametalin and shall be installed in accordance with AS/NZS 4200.2: 1994 Pliable Building Membranes and Underlays, Part 2: Installation Requirements.

Emittance Bright Side: 0.03

Water Vapour Transmission (WVT): 1.44 g/m²•24hr

Vapour Resistance: 85.61 MN•s/g Vapour Barrier Classification: Medium Water Barrier Classification: High

Duty: Medium in accordance with AS/NZS 4200.1:2017

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AUSTRALIAN MADE, AUSTRALIAN OWNED. **AMETALIN**

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MEDIUM DUTY

REFLECTIVE INSULATION WALL WRAP

Health and Safety Information

Ametalin has assessed SILVERWRAP_{TM} according to the criteria outlined in the National Occupational Health and Safety Commission (NOHSC):1008 (1998) and NOHSC: 1005 (1999). As a result of the assessment, this product is classified as non-hazardous according to the NOHSC criteria. To reduce risk of UV damage when installing this product, wear protective clothing, safety glasses and sunscreen, and work in the shade wherever practical.

Installation

ELECTRICAL SAFETY PRECAUTIONS - BEFORE YOU START:

Ametalin stresses the importance of safe installation practices for foil-based insulation as critical to installer and consumer safety. Aluminium Foil Insulation Association Inc. (AFIA) has prepared Work Method Statements and Hazard Management forms to assist contractors and installers in safe installation of reflective insulation products. These documents are available under 2009 AFIA WMS & Hazard Management, at www.afia.com.au/news/health-and-safety/.

SILVER**WRAP**_{TM} should be installed in accordance with AS/NZS 4200.2: 1994 Pliable Building Membranes and Underlays, Part 2: Installation Requirements.

GENERAL

SILVER**WRAP**_{TM} is not designed to withstand prolonged direct exposure to the elements. Accordingly, the outer construction envelope should be installed without delay. Aluminium foil should not come into contact with wet concrete or mortar, as the aluminium is susceptible to alkali corrosion. If installed within 500 metres of the sea, or in a non-residential building where foil surfaces may be exposed to a corrosive atmosphere (including agricultural sheds), foil surfaces should face an enclosed, un-vented air space. To ensure optimum thermal insulation performance, as well as satisfactory durability, an air space adjacent to the foil side of the product is recommended.

TIMBER & STEEL FRAMED CONSTRUCTION:

- **BRICK VENEER**
- **REVERSE BRICK VENEER**
- LIGHT WEIGHT CLADDING DIRECT TO STUD
- LIGHT WEIGHT CLADDING ON BATTENS

In framed walls and gables, SILVER**WRAP**™ should be installed horizontally as a continuous membrane by fixing to all framing members with the blue side facing out and overlapped by no less than 150 mm to facilitate drainage. SILVER**WRAP**™ should extend from the top plate to the bottom plate on concrete slabs or bearers in timber construction. Fixings are to be no more than 450 mm apart and should be galvanised clouts or staples for fastening to timber construction and tek screws for fastening to steel constructions. In high wind areas, it is recommended to install using flat punched multi-point fasteners or cap screws. Horizontal, vertical and end overlaps must be 150 mm if not taped or 50 mm taped with Ametalin Insulation/Ducting Tape, with all top layers overlapping the outside of lower layers to prevent water ingress. Stagger any vertical overlaps. Any damage made to SILVER WRAP™ during installation including holes and tears must be repaired.

Where SILVER $WRAP_{\text{TM}}$ WALL WRAP is intended to act as a vapour barrier, tape and seal all overlapped joins, penetrations and discontinuities with Ametalin Insulation/Ducting Tape to prevent air movement. When SILVER $WRAP_{\text{TM}}$ is installed as a sarking membrane, all penetrations shall be sealed or turned up to facilitate drainage around penetration. Ensure window and door openings are cut neatly and carefully and are properly fitted at flashing points. SILVER WRAP_{TM} shall be cut back from any hot flue to avoid being a fire hazard. This can be achieved by a clear space of at least 50 mm, or as recommended by the manufacturer of the flue and approved by the local authority.

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