



Ametalin

Performance insulation for a greener world

SilverSark® XHD

Product Code: XHD

Reflective roof and wall insulation

For tile or metal roofs and walls in residential and commercial buildings



SilverSark® Extra Heavy Duty radiant barrier is designed for multi-purpose use as both roof sarking and a wall wrap. It is suitable for use in all roof and wall types. 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, SilverSark® acts as a barrier to air, radiant heat, moisture ingress and dust penetration.

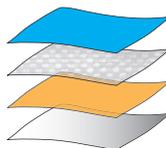
- > The all-round weather barrier
- > Superior strength, puncture resistant
- > Water and Air Barrier, Class 2 Vapour Barrier
- > Low Flammability, suitable for all BALs in bushfire-prone areas

Application

SilverSark® 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

SilverSark® 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

Residential Roof

22° pitch with SilverSark®, unventilated

Winter **R, 0.93**

Summer **R, 1.51**

Light Weight Cladding

battened out with SilverSark® + R2.7 fibrous batt

Winter **R, 2.75**

Summer **R, 2.62**

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

SilverSark® Extra Heavy Duty classifications in accordance with AS/NZS 4200.1:2017

Criteria	Reference	Result	Requirement
Flammability Index	AS 1530.2-1993	Low ≤ 5	High (> 5) / Low (≤ 5)
Nominal Thickness		0.17 mm	Value
Duty	AS/NZS 4200.1:2017	Extra Heavy	Classification
Tensile Strength Machine Direction	AS 1301.448s-91	15.2 kN/m	Min 13.0 kN/m
Tensile Strength Lateral Direction	AS 1301.448s-91	12.4 kN/m	Min 10.5 kN/m
Edge Tear Machine Direction	TAPPI T 470 om-89	646 N	Min 90 N
Edge Tear Lateral Direction	TAPPI T 470 om-89	555 N	Min 90 N
Vapour Control	ASTM E96	Class 2 Vapour Barrier	Class 1 to 4
Vapour Permeance	ASTM E96	0.02121 $\mu\text{g}/\text{N}\cdot\text{s}$	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	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

SilverSark® complies with AS/NZS 4200.1:2017, and therefore meets all of the requirements of the *National Construction Code* of Australia for pliable building membranes, insulation and sarking-type materials.

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.

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

Dimensions

1200 mm x 60 m (72 m ²)	
1350 mm x 60 m (81 m ²)	1350 mm x 30 m (40.5 m ²)
1500 mm x 60 m (90 m ²)	1500 mm x 30 m (45 m ²)

Nominal thickness: 0.17 mm

Specification Notes

When specifying, state the following:

Product name: Ametalin SilverSark® Extra Heavy Duty

The insulation to be installed shall be Ametalin SilverSark® Extra Heavy Duty single-sided reflective laminate 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 Classification: IR Non-reflective, IR Reflective

Vapour Control Classification: Vapour Barrier, 0.02121 $\mu\text{g}/\text{N}\cdot\text{s}$

Water Control Classification: Water Barrier

Duty: Extra Heavy 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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Ametalin

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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