



Ametalin

Performance insulation for a greener world

SilverSark® TRE - Tile Roof Extra

Product Code: XHD-TRE

Reflective roof insulation

For tile roofs in residential and commercial buildings



SilverSark® TRE - Tile Roof Extra radiant barrier is designed for use as a under tile roof sarking. It is suitable for use in all 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, SilverSark® TRE acts as a barrier to air, radiant heat, moisture ingress and dust penetration.

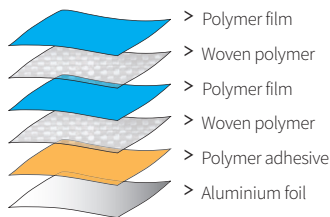
- > Heavy weight for easier roof installs
- > Superior strength, puncture resistant
- > Class 2 Vapour Barrier, Air and Water Barrier
- > Low Flammability, suitable for all BALs in bushfire-prone areas

Application

SilverSark® TRE is designed for use as a sarking in residential and commercial tile roofs. For Cathedral or Raked tile roofs, use Ametalin VapourTech® RWC Roof Wall Commercial for condensation and vapour management in ABCB Climate Zones 4 to 8. The product should not be used in residential walls in ABCB Climate Zones 4 to 8.

Construction

SilverSark® TRE 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.



Ametalin utilises Advanced Laminating Technology; the polymer adhesive remains tacky indefinitely and provides superior resistance to heat, fire and delamination.

Total System R-Values

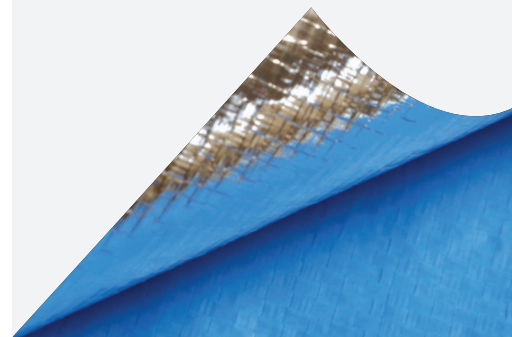
Residential Roof

22° pitch with SilverSark® TRE unventilated

Winter **R, 0.93**

Summer **R, 1.51**

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® TRE 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
Nominal Thickness		0.22 mm	Value
Electrical Conductivity	AS/NZS 4200.1:2017	Conductive	Classification
Duty	AS/NZS 4200.1:2017	Extra Heavy	Classification
Tensile Strength Machine Direction	AS 1301.448s-91	23.7 kN/m	Min 13.0 kN/m
Tensile Strength Lateral Direction	AS 1301.448s-91	21.9 kN/m	Min 10.5 kN/m
Edge Tear Machine Direction	TAPPI T 470 om-89	1040 N	Min 90 N
Edge Tear Lateral Direction	TAPPI T 470 om-89	994 N	Min 90 N
Shrinkage (Repeated wetting & drying)	AS/NZS 4201.3:1994	0.0%	< 0.5%
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, Procedure B	Class 2 Vapour Barrier	Class 1 to 4
Vapour Permeance	ASTM E96, Procedure B	0.012 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

SilverSark® TRE 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

1500 mm x 30 m (45 m²)

Nominal thickness: 0.22 mm

Specification Notes

When specifying, state the following:

Product name: SilverSark® TRE - Tile Roof Extra

The insulation to be installed shall be SilverSark® TRE - Tile Roof Extra, 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: Class 2 Vapour Barrier, 0.012 µg/N.s

Water Control Classification: Water Barrier

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

Complete details available on our website:

<http://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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