

# Trade Select™

## Trade Select™ Sarking TRE - Tile Roof Extra

Product Code: TSTRE

### Reflective roof insulation

For tile roofs in residential and commercial buildings



Trade Select™ Sarking 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, Trade Select™ Sarking TRE acts as a barrier to air, radiant heat, moisture ingress and dust penetration.

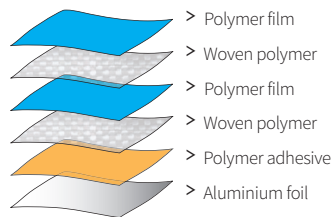
- > Heavy weight for easier roof installs
- > Superior strength, puncture resistant
- > Class 2 Vapour Barrier, Air and Water Barrier
- > Low Flammability, suitable for all BALs in bushfire-prone areas

### Application

Trade Select™ Sarking 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

Trade Select™ Sarking 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 Trade Select™ Sarking TRE unventilated

Winter **R<sub>t</sub> 0.93**

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

Trade Select™ Sarking 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

Trade Select™ Sarking 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 m<sup>2</sup>)

Nominal thickness: 0.22 mm

## Specification Notes

When specifying, state the following:

Product name: Trade Select™ Sarking TRE - Tile Roof Extra

The insulation to be installed shall be Trade Select™ Sarking 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.tradeselect.co/>

## 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.

Durability may be affected by environmental factors, including chemical and airborne pollutants, if used in industrial or farm buildings.

Australian designed for Australian conditions. Manufactured by: Ametalin 9-11 Playford Crescent, Salisbury North SA 5108 T: +61 8 8285 6955 F: +61 8 8285 5911 E: [info@tradeselect.co](mailto:info@tradeselect.co)

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