

Fire resistant reflective insulation

For use in all roof and wall types in Non-Combustible constructions and ideal for use in all BAL zones



Trade Select™ FireSark® is an Extra Heavy Duty radiant barrier, designed for multi-purpose use in all roof and wall types where fire performance is a priority. The reflective foil side provides extra R-Value when installed facing an air cavity, and the non-combustible glass fabric multi-layer structure provides excellent fire and ember resistance, as well as superior strength, flexibility and durability.

Classified as a Water Barrier, and Class 2 Vapour Barrier. Trade Select™ FireSark® is a barrier to embers, radiant heat, moisture ingress, draughts and dust penetration.

- > Ember-proof
- > Ideal for all BAL zones to FZ bushfire-prone areas
- > Water and Air Barrier
- > Class 2 Vapour Barrier
- > 97% Reflective

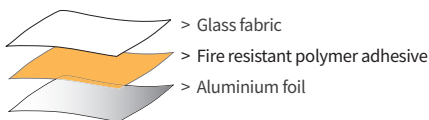
Application

Trade Select™ FireSark® is designed for use as a roof sarking and wall wrap in residential and commercial buildings in all regions of Australia. Suitable for external wall construction in all building classes, and particularly where superior fire performance is desired. The 97% reflective foil face provides extra R-value when installed facing an air cavity.

NOTE: Water Barrier, Class 3 to 4 Vapour Permeable is required for walls in Climate Zones 6 - 8.

Construction

Trade Select™ FireSark® is a flexible three-layer product made with a combination of non-combustible E-glass fabric, 97% reflective aluminium foil, and durable fire-resistant polymer adhesive.



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

NCC Compliant

Trade Select™ FireSark® complies with NCC 2019 Deemed-to-Satisfy Provisions for non-combustible constructions *Volume 1 C1.9, Volume 2 Part 3.7.1.1, AS/NZS 4859.1:2018 and AS/NZS 4200.1:2017*, and therefore meets all of the general requirements of the *2019 National Construction Code of Australia* for insulation, pliable building membranes and sarking-type materials.

Dimensions

1350 mm x 30 m (40.5 m²)

Nominal thickness: 0.20 mm

Declared Total System R-Values

Residential Roof

22° pitch with Trade Select™ FireSark®, unventilated

Winter **R_t 0.93**

Summer **R_t 1.51**

Light Weight Cladding

battened out with Trade Select™ FireSark® + R2.7 fibrous batt

Winter **R_t 2.75**

Summer **R_t 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 4859.1:2018. 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™ FireSark® classifications in accordance with AS/NZS 4200.1:2017, AS/NZS 4859.1:2018 and NCC Volume One, C1.9 and NCC Volume Two, Part 3.7.4.1.

Criteria	Reference	Result	Requirement
Combustibility	AS 1530.1-1994	Not deemed combustible	Fibreglass weave
Flammability Index	AS 1530.2-1993	Low ≤ 5	High (> 5) / Low (≤ 5)
Early Fire Indices	AS/NZS 1530.3-1999	0, 0, 0, 2	0 – 20, 0, 0 – 10, ≤ 3
Nominal Thickness		0.20 mm	≤ 1mm
Duty	AS/NZS 4200.1:2017	Extra Heavy	Classification
Tensile Strength Machine Direction	AS 1301.448s-91	58 kN/m	Min 13.0 kN/m
Tensile Strength Lateral Direction	AS 1301.448s-91	26 kN/m	Min 10.5 kN/m
Edge Tear Machine Direction	TAPPI T 470 om-89	381 N	Min 90 N
Edge Tear Lateral Direction	TAPPI T 470 om-89	440 N	Min 90 N
Vapour Control	ASTM E96	Class 2 Vapour Barrier	Class 1 to 4
Vapour Permeance	ASTM E96	0.003 µg/N.s	Value
Water Control	AS/NZS 4201.4:1994	Water Barrier	Classification
Air Control	ISO 6536/5-2003	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	Printed 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

Fire Performance

Trade Select™ FireSark® is suitable for use in Non-Combustible construction in compliance with NCC 2019 Volume One C1.9(e)(vi) and Volume Two Part 3.7.1.1(f). Superior fire performance results from the choice of Non-Combustible fibreglass weave for the bulk of the material and naturally non-combustible aluminium.

Trade Select™ FireSark® Offers a Triple Crown of Safety:

AS 1530.1—1994 Methods for fire tests on building materials, components and structures Part 1: Combustibility tests for materials. The fibreglass fabric and aluminium foil have achieved a result of not deemed combustible.

AS 1530.2—1993 Methods for fire tests on building materials, components and structures Part 2: Test for flammability of materials.

Trade Select™ FireSark® achieves a flammability index of 1 or Low (≤5)

AS/NZS 1530.3:1999 Methods for fire tests on building materials, components and structures Part 3: Simultaneous determination of ignitability, flame propagation, heat release and smoke release

The early fire hazard indices are:

- Ignitability: 0
- Spread of flame: 0
- Heat evolved: 0
- Smoke developed: 2

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.

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 S 5108 T: +61 8 8285 6955 F: +61 8 8285 5911 E: info@ametalin.com
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Complete details including installation instructions are available on our website: www.tradesselect.co TPM-21333-13

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Specification Notes

When specifying, state the following:

Product Name: Trade Select™ FireSark®

The insulation to be installed shall be Trade Select™ FireSark® single-sided reflective laminate, tested in accordance with AS 1530.1-1994 Methods for fire tests on building materials, components and structures Part 1: Combustibility test for materials to satisfy NCC 2019, Vol 1, C1.9 for non-combustible constructions and shall be installed in accordance with AS 4200.2: 2017 Pliable Building Membranes and Underlays, Part 2: Installation.

Combustibility: Not deemed combustible

Flammability Classification: Low (1)

Early Fire Hazard Indices: 0, 0, 0, 2

Emittance Value: 0.90, 0.03

Emittance Classification: IR Non-reflective, IR Reflective

Vapour Control Classification: Class 2 Vapour Barrier, 0.003 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.tradesselect.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.