

Trade Select™ Sarking xR LD

Product Code: TSLD-XR

Extra R-value

Reflective roof and wall insulation

For sheet metal roofs and walls in residential and commercial buildings



Trade Select™ Sarking xR LD is a Light Duty double-sided radiant barrier, designed for use under sheet metal roofs where temperatures can exceed 80°C, and with battened out cladding to create an extra reflective space for enhanced R-value. The reflective foil sides provide Thermal Control and extra R-value when installed facing an air cavity and acts as a barrier to air, radiant heat, moisture ingress and dust penetration. It is an Air and Water Barrier, and Class 2 Vapour Barrier product, suitable for use in sheet metal roofs and wall applications.

- > The best all-round weather barrier for your home
- > Strong and light weight, puncture resistant
- > Water and Air Barrier, Class 2 Vapour Barrier
- > Innovative low-glare, high IR reflection ink technology
- > Low Flammability, suitable for all BALs in bushfire-prone areas
- > Vapour Control membrane

Application

Install Trade Select™ Sarking xR facing an air space on either side for increased reflective R-value. Trade Select™ Sarking xR reduces the need for additional wall insulation and increases overall thermal performance of the building system.

Water Barrier, Class 2 Vapour Barrier wall wraps are recommended for wet tropical climate zones.

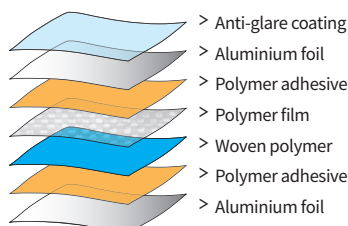
Trade Select™ Sarking xR is a weather barrier, designed for use as a roof sarking in residential and commercial buildings in all regions of Australia.

Trade Select™ Sarking xR is a Class 2 Vapour Barrier and weather barrier wall wrap suitable for use in regions north of the Tropic of Capricorn in ABCB Climate Zones 1 and 2.

Construction

Trade Select™ Sarking xR is a flexible multi-layer product made with a combination of woven polymer substrate, aluminium foil and fire-resistant polymer adhesive. It has reflective foil surfaces on both sides, one side with an innovative low-glare, high IR reflection ink technology for ease of installation. The internal membrane structure is highly flexible and resilient. This has two benefits:

- 1) Wind flap is minimised under roofs in high wind conditions
- 2) Stress within the structure due to flapping, thermal expansion and shrinkage is significantly reduced, markedly improving the durability of the product.



Ametalin utilises Advanced Laminating Technology; the polymer adhesive remains tacky indefinitely and provides superior resistance to heat, fire, and delamination. In order to minimise shrinkage after installation, our products are pre-shrunk during the manufacturing process.

Total System R-Values

Residential Sheet Metal Roof

22° pitch with Trade Select™ Sarking xR, unventilated

Winter **R_t 1.14**

Summer **R_t 1.82**

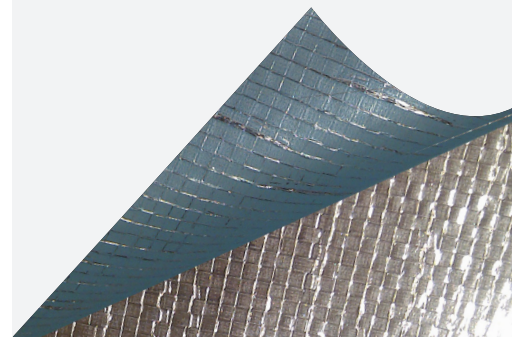
Light Weight Cladding

Battened out with Trade Select™ Sarking xR + R2.7 Fibrous Batt

Winter **R_t 3.00**

Summer **R_t 2.89**

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 and 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 xR classifications in accordance with AS/NZS 4200.1:2017.

Criteria	Reference	Result	Requirement
Flammability Index	AS/NZS 4200.1:2017	Low ≤ 5	High (> 5) / Low (≤ 5)
Nominal Thickness		0.11 mm	Value
Duty	AS/NZS 4200.1:2017	Light	Classification
Tensile Strength Machine Direction	AS 1301.448s-2019	7.5 kN/m	Min 7.5 kN/m
Tensile Strength Lateral Direction	AS 1301.448s-2019	4.5 kN/m	Min 4.5 kN/m
Edge Tear Machine Direction	TAPPI T 470 om-89	45 N	Min 45 N
Edge Tear Lateral Direction	TAPPI T 470 om-89	45 N	Min 45 N
Vapour Control	AS/NZS 4200.1 Clause 5.3.2.3	Class 2 Vapour Barrier	Class 1 to 4
Vapour Permeance	ASTM E96-2016 Procedure B	0.01470 µg/N.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 4200.1:2017	Anti-glare side: 0.50, 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	RR	Category

NCC Compliant

Trade Select™ Sarking xR complies with AS/NZS 4200.1:2017, and therefore meets all 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 (BALs)

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.

Deemed-to-satisfy provisions non-combustible materials

Trade Select™ Sarking xR complies with *Deemed-to-Satisfy Provisions NCC Volume One, Section C1.9 (e)(vi) non-combustible building elements and Volume Two 3.7.1.1 General Concessions – non-combustible materials*. Trade Select™ Sarking xR may be used where non-combustible material is required.

Sarking-type materials that do not exceed 1 mm in thickness and have a Flammability Index not greater than 5.

Dimensions

1350 mm x 60 m (81 m²)
Nominal thickness: 0.11 mm

Specification Notes

When specifying, state the following:
Product name: Trade Select™ Sarking xR LD

The insulation to be installed shall be Trade Select™ Sarking xR LD, Light 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: 0.05, 0.03
Emittance Classification: IR Reflective, IR Reflective
Vapour Control Classification: Vapour Barrier, 0.01470 µg/N.s
Air Control Classification: Air Barrier
Water Control Classification: Water Barrier
Duty: Light in accordance with AS/NZS 4200.1:2017

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@ametalin.com
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RM INDUSTRIES

Phone: 03 9786 8449

Email: info@rmindustries.com.au

www.rmindustries.com.au

SA / WA / NT / QLD

REFLEX INSULATION

Phone: 1300 720 185

Email: info@reflexinsulation.com.au

www.reflexinsulation.com.au

Trade Select™
tradeselect.co