

Underfloor insulation

For use under floors that are directly adhered to floor joists



Trade Select™ SilverFloor™ is a Heavy Duty, vapour permeable floor insulation, designed for use under floors with a sealed air space between flooring and enclosed sub-floor space. Double-sided reflective surfaces provide increased R-value to your floor system. 5 mm weep holes at 400 mm intervals in the membrane structure allow water and water vapour to permeate through, preventing moisture build-up under flooring.

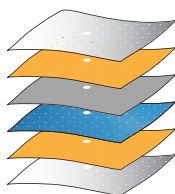
- > Heavy Duty
- > Double-sided foil radiant barrier
- > High strength, light weight
- > Low Flammability
- > Weep holes allow water to drain

Application

Trade Select™ SilverFloor™ is designed for use as an insulation under floors with a sealed air space between flooring and enclosed sub-floor space. Where the sub-floor space is exposed to wind, e.g. in pole construction, a lining should be installed under the floor joists.

Construction

Trade Select™ SilverFloor™ is a flexible six-layer product with anti-oxidant UV-stabilised woven polypropylene and polymer flood coat layers, backed on either side with fire-resistant polymer adhesive and 97% reflective aluminium foil.



- > Aluminium foil
- > Polymer adhesive
- > 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.

Declared Total System R-Values

Suspended Framed Floors

enclosed sub-floor
unventilated with
Trade Select™ SilverFloor™ installed
between joists or
over bearers

Winter **R_t 3.36**

Summer **R_t 1.52**

Suspended Framed Floors

unenclosed sub-floor,
ventilated with
Trade Select™ SilverFloor™ installed
between joists or
over bearers

Winter **R_t 2.05**

Summer **R_t 0.77**

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. To ensure optimum thermal insulation performance, ensure a ≥ 90 mm air gap adjacent to the upper foil side of the product.

Material Properties and Classifications

Trade Select™ SilverFloor™ Heavy Duty classifications in accordance with AS/NZS 4200.1:2017 and AS/NZS 4859.1:2018

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	Heavy	Classification
Tensile Strength Machine Direction	AS 1301.448s-91	12.8 kN/m	Min 12.5 kN/m
Tensile Strength Lateral Direction	AS 1301.448s-91	14.2 kN/m	Min 7.5 kN/m
Edge Tear Machine Direction	TAPPI T 470 om-89	439 N	Min 80 N
Edge Tear Lateral Direction	TAPPI T 470 om-89	452 N	Min 80 N
Vapour Control	ASTM E96	Class 3 Vapour Permeable	Class 1 to 4
Vapour Permeance	ASTM E96	0.3009 $\mu\text{g}/\text{N.s}$	Value
Water Control	AS/NZS 4201.4:1994	Non-Water Barrier	Classification
Air Control	AS/NZS 4200.1:2017	Non-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: 0.03, Foil side: 0.03	Value
Emittance Classification	AS/NZS 4200.1:2017	IR Reflective, IR Reflective	Classification
Emittance Category	AS/NZS 4200.1:2017	RR	Category

NCC Compliant

Trade Select™ SilverFloor™ complies with AS/NZS 4859.1:2018 and AS/NZS 4200.1:2017, and therefore meets all of the requirements of the *National Construction Code* of Australia for 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.*

Dimensions

500 mm x 60 m (30 m²)

1500 mm x 60 m (90 m²)

Nominal Thickness: 0.17 mm

Specification Notes

When specifying state the following:

Product Name: Trade Select™ SilverFloor™

The insulation to be installed shall be Trade Select™ SilverFloor™ Vapour Permeable reflective underfloor insulation and shall be installed in accordance with the instructions issued by them and in accordance with AS 4200.2:2017.

Emittance Value: 0.03, 0.03

Emittance Classification: IR Reflective, IR Reflective

Vapour Control Classification: Vapour Permeable, 0.3009 $\mu\text{g}/\text{N.s}$

Water Control Classification: Non-water Barrier

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

Complete details available on our website:

<https://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.

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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