

Trade Select™

Trade Select™ Wall Wrap xRS MD

Product Code: TSMD-XRS

Extra R-value

Reflective wall insulation

For use in masonry veneer wall systems in residential and commercial buildings



Trade Select™ Wall Wrap xRS is a Medium Duty, reflective wall wrap designed specifically for use in masonry and brick veneer wall systems to enhance thermal performance.

The outward facing reflective anti-glare foil surface provides a reflective air cavity between the stud frame and the brick leaf, adding substantially to the system R-value of the wall. This is a simple way to enhance the home's energy efficiency without requiring a change in common construction practices.

Fully tested in accordance with AS/NZS 4200.1:2017, Trade Select™ Wall Wrap xRS is IR Reflective, Low Flammability and classified as an Air and Vapour Barrier.

- > Innovative low-glare, high IR reflection ink technology
- > Class 1 Vapour Barrier
- > Ideal for masonry drained cavity systems in tropical climate zones
- > Strong and light weight
- > Water and Air Barrier
- > Low flammability, suitable for all BALs in bushfire-prone areas
- > 96% reflective

Application

By delivering an optimised level of reflective insulation, Trade Select™ Wall Wrap xRS will save on requirements for bulk insulation. Under standard calculation assumptions in accordance with AS/NZS 4859.1:2002/ Amdt 1:2006, a non-reflective house wrap will require R2.5 insulation batts to satisfy minimum NCC requirements.

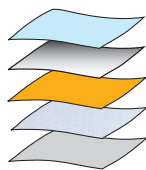
By choosing Trade Select™ Wall Wrap xRS, R1.8 batts will be sufficient to achieve compliance with national energy efficiency provisions.

Trade Select Wall Wrap xRS is designed for use where water barrier and Class 1 Vapour Barrier properties are required for use as a wall wrap in residential and commercial buildings in ABCB Climate Zone 1 and regions north of the Tropic of Capricorn in Climate Zone 2.

Class 1 Vapour Barrier wall wraps are not recommended for regions south of the Tropic of Capricorn in Climate Zone 2 and in Climate Zones 3-8.

Construction

Trade Select™ Wall Wrap xRS is a flexible five-layer product made with a combination of low level anti-glare finish to 95% reflective, aluminium foil, fire-resistant polymer adhesive, anti-oxidant UV-stabilised woven polypropylene and backed by a grey UV-stabilised polymer flood coat.



- > Anti-glare coating
- > Aluminium foil
- > Fire resistant polymer adhesive
- > Woven Polymer
- > Polymer film

Total System R-Values

Brick Veneer Wall
with Trade Select™ Wall Wrap xRS
+ R1.8 fibrous batt

Winter **R_t 3.1**

Summer **R_t 2.8**

Brick Veneer Wall
with Trade Select™ Wall Wrap xRS
+ R2.5 fibrous batt

Winter **R_t 3.9**

Summer **R_t 3.5**

Brick Veneer Wall
with Trade Select™ Wall Wrap xRS
+ R2.7 fibrous batt

Winter **R_t 4.1**

Summer **R_t 3.7**

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 4859.2:2002/ Amdt 1:2006. 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™ Wall Wrap xRS classifications in accordance with AS/NZS 4200.1:2017 and AS/NZS 4859.1:2002, Amdt 1 2006

Criteria	Reference	Result	Requirement
Flammability Index	AS 1530.2-1993	Low ≤ 5	High (> 5) / Low (≤ 5)
Nominal Thickness		0.10 mm	≤ 1 mm
Duty	AS/NZS 4200.1:2017	Medium	Classification
Tensile Strength Machine Direction	AS 1301.448s-91	12.2 kN/m	Min 9.5 kN/m
Tensile Strength Lateral Direction	AS 1301.448s-91	10.2 kN/m	Min 6.0 kN/m
Edge Tear Machine Direction	TAPPI T 470 om-89	452 N	Min 65 N
Edge Tear Lateral Direction	TAPPI T 470 om-89	417 N	Min 65 N
Vapour Control	ASTM E96	Class 1 Vapour Barrier	Classification
Vapour Permeance	ASTM E96	0.0117 $\mu\text{g}/\text{N}\cdot\text{s}$	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	Electrically Conductive	Classification
Emittance Value	AS/NZS 4201.5:1994	Anti-glare side: 0.04, Grey side: 0.62	Value
Emittance Classification	AS/NZS 4200.1:2017	IR Reflective, IR Non-reflective	Classification
Emittance Category	AS/NZS 4200.1:2017	RN	Category

NCC Compliant

Trade Select™ Wall Wrap xRS complies with AS/NZS 4859.1:2002/ Amdt 1:2006 and AS/NZS 4200.1:2017, and therefore meets all of the requirements of the *National Construction Code* of Australia for insulation, pliable building membranes 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* and is therefore suitable for use in non-combustible constructions.

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

1350 mm x 60 m (81 m²) 1350 mm x 30 m (40.5 m²)

Nominal thickness: 0.10 mm

Specification Notes

When specifying, state the following:

Product Name: Trade Select™ Wall Wrap xRS Medium Duty

The insulation to be installed shall be Trade Select™ Wall Wrap xRS Medium Duty, extra R-value, reflective wall wrap and shall be installed in accordance with AS 4200.2: 1994 *Pliable Building Membranes and Underlays, Part 2: Installation*.

Emittance Value: 0.04, 0.62

Emittance Classification: IR Reflective, IR Non-reflective,

Vapour Control Classification: Class 2 Vapour Barrier, 0.0117 $\mu\text{g}/\text{N}\cdot\text{s}$

Water Control Classification: Water Barrier

Air Control Classification: Air Barrier

Duty: Medium 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@ametalin.com

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