

## SilverWrap® xRS MD

Product Code: MD-XRS

### Extra R-value

### Reflective wall insulation

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



SilverWrap® 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. SilverWrap® 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, SilverWrap® 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.

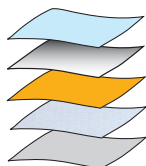
By choosing SilverWrap® xRS, R1.8 batts will be sufficient to achieve compliance with national energy efficiency provisions.

SilverWrap® 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 4 to 8.

### Construction

SilverWrap® 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 SilverWrap® xRS + R1.8 fibrous batt

Winter **R, 3.1**

Summer **R, 2.8**

#### Brick Veneer Wall

with SilverWrap® xRS + R2.5 fibrous batt

Winter **R, 3.9**

Summer **R, 3.5**

#### Brick Veneer Wall

with SilverWrap® xRS + R2.7 fibrous batt

Winter **R, 4.1**

Summer **R, 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

SilverWrap® xRS Medium Duty classifications in accordance with AS/NZS 4200.1:2017

Criteria	Reference	Result	Requirement
Flammability Index	AS 1530.2-1993	Low $\leq 5$	High ( $> 5$ ) / Low ( $\leq 5$ )
Nominal Thickness		0.10 mm	$\leq 1$ 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 $\mu\text{g}/\text{N.s}$	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

SilverWrap® xRS complies with 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 ( $\leq 5$ )

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 m<sup>2</sup>)      1500 mm x 30 m (45 m<sup>2</sup>)

Nominal thickness: 0.10 mm

### Specification Notes

When specifying, state the following:

Product Name: Ametalin SilverWrap® xRS Medium Duty

The insulation to be installed shall be Ametalin SilverWrap® 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  $\mu\text{g}/\text{N.s}$

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:

<https://www.ametalin.com>

### 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

### Performance insulation for a greener world

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

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