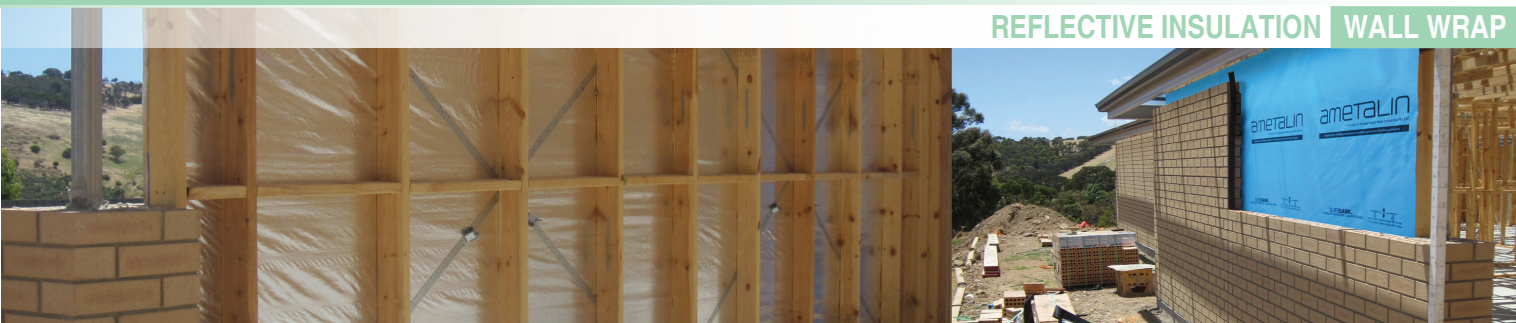


SILVER SARK® BREATHER

EXTRA HEAVY DUTY

REFLECTIVE INSULATION WALL WRAP



CLASS 3 VAPOUR PERMEABLE

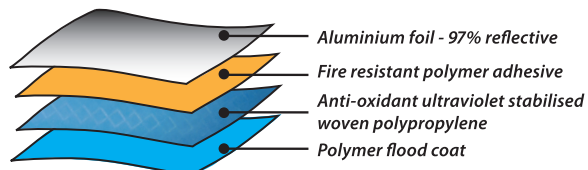
Product Code: XHD-B | I/N: 0810108, 0810357

SILVER SARK® BREATHER is an Extra Heavy Duty semi-permeable membrane and vapour retarder, designed to reduce the risk of interstitial condensation in building systems. Classified as Low Vapour Barrier, a dense pattern of micro-perforations allows water vapour to escape from the wall structure while restricting the ingress of liquid water. SILVER SARK® BREATHER is ideal for use in double brick and brick veneer wall systems.

- ✓ 97% Reflective
- ✓ Low flammability
- ✓ High strength, light weight
- ✓ Class 3 Vapour Permeable

Construction

SILVER SARK® BREATHER is a flexible four layer product made with a combination of anti-oxidant ultra-violet stabilised woven polypropylene, 97% reflective aluminium foil, and fire-resistant polymer adhesive. A dense pattern of micro-perforations enables SILVER SARK® BREATHER to achieve Low Vapour Barrier classification, while restricting the passage of water under low pressure.



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

NOTE: SILVER SARK® BREATHER is not classified as a High Water Barrier under AS/NZS 4200.1:2017 *Pliable building membranes and underlays, Part 1: Materials*, which requires testing under a 100 mm water column.

Application

SILVER SARK® BREATHER is designed for use as a breather wall wrap and semi-permeable membrane in residential, commercial and office buildings, in regions of Australia south of the Tropic of Capricorn (ABCB Climate Zones 2-6). Durability may be affected by environmental factors, including airborne pollutants, if used in industrial or farm buildings.

Tear Resistance

SILVER SARK® BREATHER is an extremely lightweight product with superior tear resistance. SILVER SARK® BREATHER is guaranteed to meet or exceed the minimum performance levels for Extra Heavy Duty rating required under AS/NZS 4200.1:2017.

	Minimum Value*	Actual Test Value
Machine direction edge tear resistance	90 N	517 N / 25 mm
Lateral direction edge tear resistance	90 N	480 N / 25 mm

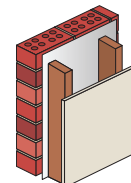
* Minimum value required to qualify as Extra Heavy Duty under AS/NZS 4200.1:2017.

DECLARED TOTAL SYSTEM R-VALUES

The contribution of this product to the total R-value depends on installation and environmental conditions. The R-value will be reduced in the event of the accumulation of dust on upward facing surfaces and in those cavities that are ventilated.

BRICK VENEER

with one layer of SILVER SARK® BREATHER

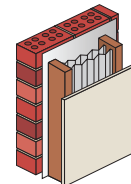


CALCULATION REF: 299r3221

WINTER $R_T 1.3$ SUMMER $R_T 1.2$

BRICK VENEER

with one layer of SILVER SARK® BREATHER + two layers of PLEATED SILVERBATTS™

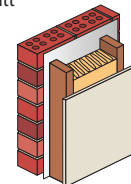


CALCULATION REF: 299w3225

WINTER $R_T 3.4$ SUMMER $R_T 3.0$

BRICK VENEER

with one layer of SILVER SARK® BREATHER + R2.5 Fibrous Batt

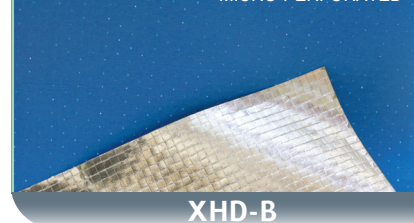


CALCULATION REF: 299w50

WINTER $R_T 3.2$ SUMMER $R_T 3.0$

SILVER SARK® BREATHER

MICRO-PERFORATED



XHD-B

SILVER SARK® BREATHER

EXTRA HEAVY DUTY

REFLECTIVE INSULATION WALL WRAP

Material Properties and Classifications

SILVER SARK® BREATHER 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)
Duty	AS/NZS 4200.1:2017	Extra Heavy	Classification
Tensile Strength	AS 1301.448s-91	Machine Direction	Min 13.0 kN/m
		Lateral Direction	Min 10.5 kN/m
Edge Tear	TAPPI T 470 om-89	Machine Direction	Min 90 N
		Lateral Direction	Min 90 N
Vapour Control	ASTM E96	Class 3 Vapour Permeable	Class 1 to 4
Vapour Permeance	ASTM E96	0.5727 µg/N.s	µg/N.s
Water Control	AS/NZS 4201.4:1994	Non-water Barrier	Water Barrier or Non-water Barrier
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	Electrically Conductive or Electrically Non-conductive
Emittance Value	AS/NZS 4201.5:1994	Bright side: 0.03 Anti-glare side: 0.9	Value
Emittance Classification	AS/NZS 4200.1:2017	IR Reflective IR Non-reflective	R - IR Reflective ≤ 0.05 S - IR Semi-reflective > 0.05 to ≤ 0.15 N - IR Non-reflective > 0.15
Emittance Category	AS/NZS 4200.1:2017	RN	RR RS RN SS SN NN

NCC Compliant

SILVER SARK® BREATHER complies with AS/NZS 4859.1:2002/ Amdt 1:2006 and AS/NZS 4200.1:2017, and therefore meets all the requirements of the *National Construction Code* for insulation and pliable building membranes.

BUSHFIRE ATTACK LEVELS

SILVER SARK® BREATHER complies with AS 3959-2009 *Construction of buildings in bushfire-prone areas* for use in wall systems BAL – LOW to BAL – FZ.

Total System R-values

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 4859.1:2002/Amdt 1:2006. For detailed design of building systems, seek advice based on actual site conditions from a qualified licensed engineer.

Storage

This product should be stored under cover in a clean, dry place in the pack provided.

Dimensions

SILVER SARK® BREATHER is sold in sizes:

1350 mm x 60 m (81 m ²)	1500 mm x 30 m (45 m ²)
1350 mm x 30 m (40.5 m ²)	1500 mm x 60 m (90 m ²)
1350 mm x 20 m (27 m ²)	

Specification Notes

When specifying, state the following:

Product Name: SILVERSARK® BREATHER

The insulation to be installed shall be SILVERSARK® BREATHER micro-perforated single-sided reflective laminate, emittance bright side 0.03. Product is manufactured by Ametalin and shall be installed in accordance with AS 4200.2: 2017 *Pliable Building Membranes and Underlays, Part 2: Installation*.

Emittance Bright Side: 0.03

Water Vapour Transmission (WVT): 40.6 g/m²·24hr

Vapour Resistance: 3.04 MN·s/g

Vapour Control Classification: Class 3 Vapour Permeable

Water Barrier Classification: Non-water Barrier

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

© 2019 Ametalin All Rights Reserved. Ametalin is a division of Amalgamated Metal Industries Pty. Ltd. Product information in this publication and otherwise supplied to users is based on our general experience and is given in good faith, but due to factors outside our knowledge and control which may affect the use of products, no warranty is given or implied with respect to this information or the product itself regarding the suitability of the product for any particular purpose. The usage of this and other building membranes will affect moisture migration in the building element. The purchaser should independently determine the suitability of the product for the intended purpose. For large projects with complex air-conditioning and condensation issues, designers may wish to contact our technical department. Batch number is printed on product. Product colour may vary from batch to batch. Amalgamated Metal Industries Pty. Ltd. reserves the right to amend product specifications without prior notice. Information provided is considered to be true and correct at the time of publication. DTE-43567-10

AUSTRALIAN DESIGNED, AUSTRALIAN OWNED.

AMETALIN

9 - 11 Playford Crescent Salisbury North SA 5108

T: +61 8 8285 6955 F: +61 8 8285 5911 E: info@ametalin.com W: ametalin.com

Manufacturers of building membranes | insulation products | flexible packaging



SILVER SARK® BREATHER

EXTRA HEAVY DUTY

REFLECTIVE INSULATION WALL WRAP

Health and Safety Information

Ametalin has assessed SILVER SARK® BREATHER according to the criteria outlined in the *National Occupational Health and Safety Commission (NOHSC):1008 (1998)* and *NOHSC: 1005 (1999)*. As a result of the assessment, this product is classified as non-hazardous according to the NOHSC criteria. To reduce risk of UV damage when installing this product, wear protective clothing, safety glasses and sunscreen, and work in the shade wherever practical.

Installation

ELECTRICAL SAFETY PRECAUTIONS - BEFORE YOU START:

Ametalin stresses the importance of safe installation practices for foil-based insulation as critical to installer and consumer safety. Aluminium Foil Insulation Association Inc. (AFIA) has prepared Work Method Statements and Hazard Management forms to assist contractors and installers in safe installation of reflective insulation products. These documents are available under 2009 AFIA WMS & Hazard Management, at www.afia.com.au/news/health-and-safety/.

SILVER SARK® BREATHER should be installed in accordance with *AS 4200.2: 2017 Pliable Building Membranes and Underlays, Part 2: Installation*.

GENERAL

SILVER SARK® BREATHER is not designed to withstand prolonged direct exposure to the elements. Accordingly, the outer construction envelope should be installed without delay. Aluminium foil should not come into contact with wet concrete or mortar, as the aluminium is susceptible to alkali corrosion. If installed within 500 metres of the sea, or in a non-residential building where foil surfaces may be exposed to a corrosive atmosphere (including agricultural sheds), foil surfaces should face an enclosed, un-vented air space. To ensure optimum thermal insulation performance, as well as satisfactory durability, an air space adjacent to the foil side of the product is recommended.

TIMBER & STEEL FRAMED CONSTRUCTION:

- ▶ TYPICAL BRICK VENEER
- ▶ REVERSE BRICK VENEER
- ▶ OTHER DRAINED CAVITY MASONRY CONSTRUCTION

SILVER SARK® BREATHER should be installed horizontally as a continuous membrane by fixing to all framing members with the blue side facing out and overlapped by no less than 150 mm to facilitate drainage. SILVER SARK® BREATHER should extend from the top plate to the bottom plate on concrete slabs or bearers in timber construction. Fixings are to be no more than 450 mm apart and should be galvanised clouts or staples for fastening to timber construction and tek screws for fastening to steel constructions. In high wind areas, it is recommended to install using flat punched multi-point fasteners or cap screws. Horizontal, vertical and end overlaps must be 150 mm if not taped or 50 mm taped with Ametalin Insulation/Ducting Tape, with all top layers overlapping the outside of lower layers to prevent water ingress. Stagger any vertical overlaps. Any damage made to SILVER SARK® BREATHER during installation including holes and tears must be repaired. Ensure window and door openings are cut neatly and carefully and are properly fitted at flashing points. SILVER SARK® BREATHER shall be cut back from any hot flue to avoid being a fire hazard. This can be achieved by a clear space of at least 50 mm, or as recommended by the manufacturer of the flue and approved by the local authority.

© 2019 Ametalin All Rights Reserved. Ametalin is a division of Amalgamated Metal Industries Pty. Ltd. Product information in this publication and otherwise supplied to users is based on our general experience and is given in good faith, but due to factors outside our knowledge and control which may affect the use of products, no warranty is given or implied with respect to this information or the product itself regarding the suitability of the product for any particular purpose. The usage of this and other building membranes will affect moisture migration in the building element. The purchaser should independently determine the suitability of the product for the intended purpose. For large projects with complex air-conditioning and condensation issues, designers may wish to contact our technical department. Batch number is printed on product. Product colour may vary from batch to batch. Amalgamated Metal Industries Pty. Ltd. reserves the right to amend product specifications without prior notice. Information provided is considered to be true and correct at the time of publication. DTE-43567-10

AUSTRALIAN DESIGNED, AUSTRALIAN OWNED.

AMETALIN

9 -11 Playford Crescent Salisbury North SA 5108

T: +61 8 8285 6955 F: +61 8 8285 5911 E: info@ametalin.com W: ametalin.com

Manufacturers of building membranes | insulation products | flexible packaging

