

Sisalation® Foam Cell Resi Liner

Description

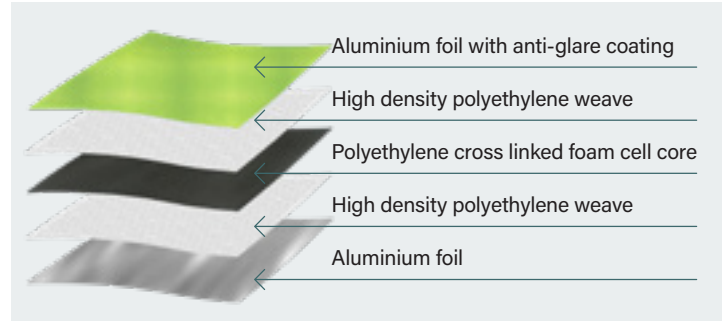
Sisalation® Foam Cell Resi Liner is an extra heavy duty sarking material consisting of a cross linked, closed cell foam core laminated between layers of reflective foil, with an anti-glare coating on one layer designed to minimise glare experienced during installation.

Application

Sisalation® Foam Cell Resi Liner is designed for use in residential applications such as walls, roofs, sheds and garages, subject to the product limitations outlined below.

Sisalation® Foam Cell Resi Liner is produced with a 150mm wide (non-foam) section along one edge allowing for a seamless overlap to maximise coverage, minimise waste and improve aesthetics in exposed applications.

Product composition



Features and benefits

Reflects up to 95% radiant heat	→	Allows for cooler internal conditions in hot and humid climates.
Includes a 150mm non-foam overlap along one edge	→	Faster installation with minimal taping and maximum coverage.
Water and vapour barrier	→	Class 1 Vapour barrier and Water barrier in accordance with AS 4200.1

Product data

Nominal thickness mm	Width mm	Overlap/flap mm	Length m	Area per roll m ²	Nominal weight per roll kg	Product code
5	1350	150	22.25	30	14	4006743

Physical properties

Property		Test method/standard	Result	Unit
Thermal Resistance R-value		AS/NZS 4859.1	R0.11	m ² K/W
Duty Classification		AS 4200.1	Extra Heavy Duty	
Tensile Strength	Machine	AS 1301.448s	≥ 13.0	kN/m
	Lateral		≥ 10.5	kN/m
Edge tear	Machine	TAPPI T470	≥ 90	N
	Lateral		≥ 90	N
Water Control		AS/NZS 4201.4	Water barrier	
Vapour Control		AS 4200.1	Class 1 Vapour barrier	
Vapour Permeance		ASTM E96	< 0.0022	µg/Ns
Emittance	Anti-glare side	AS/NZS 4201.5	IR Semi-Reflective (0.06)	
	Silver side		IR Reflective (≤ 0.05)	
Resistance to dry delamination		AS/NZS 4201.1	Pass	
Resistance to wet delamination		AS/NZS 4201.2	Pass	
Shrinkage		AS/NZS 4201.3	≤ 0.5	%
Electrical Conductivity		AS/NZS 3100	Electrically Conductive	

Fire hazard properties

Sisalation® Foam Cell Resi Liner exhibits the following characteristics when tested in accordance with the following standards:

Property	Test method/standard	Result
Group Number	AS 5637.1	2
Heat Release Rate & SMOGRA	AS ISO 9705	< 100
Flammability Index	AS/NZS 1530.2	≤ 5 (Low)
BAL Compliance	AS 3959	Roof: Low-40 Wall: Low-FZ

Product limitations

- **Important: Do Not Modify This Product:** Compliance with the evidence of suitability data referenced in this document is only achieved by the product or configuration listed.
- This product is not classified as non-combustible in accordance with AS 1530.1 and is not suitable where a non-combustible material is required.
- As this product exceeds 1mm in thickness it is not suitable for use where a non-combustible material is required, in accordance with NCC2022 Volume 1 C2D10(6)(f), and NCC2025 Volume 1 C2D10(6)(f), NCC 2022 Volume 2 H3D2(1)(f), NCC 2025 Volume 2 H3D2(1)(f).
- This product is not vapour permeable and must not be used where the cladding manufacturer specifies a vapour permeable membrane.
- This product is classified as a Class 1 Vapour barrier and is not suitable where a pliable building membrane or sarking-type material is required in:
 - Climate zones 4–8 under NCC 2022 Volume 1 F8D3 and ABCB Housing Provisions Standard 2022 10.8.1.
 - No cavity applications in Climate zone 1 and all construction in Climate zone 3–8 per NCC Volume 1 F8D3 & ABCB Housing Provisions 2025 10.8.1.

- This product is not suitable as a substitute for safety mesh or a fall-arrest system.
- Sisalation® Foam Cell products are not designed to withstand prolonged weathering - exterior cladding should be installed within 6 weeks in a wall application, or 2 weeks in a roof application. Products exposed for longer than these periods will not be covered by the Product Warranty.
- This product is not suitable for use within 500m of a saltwater body in unenclosed or permanently ventilated spaces.
- Compression of the product will reduce its declared material R-value.
- Additional mechanical fasteners may be required for product exposed to adverse weather conditions. Product must be inspected for damage and repaired/replaced prior to cladding being installed.

Compliance

NCC 2022

Sisalation® Foam Cell Resi Liner, when specified and installed correctly, meets the following compliances:

- Meets the requirements of NCC 2022 Volume 1 F3D3 as a sarking-type material complying with AS 4200.1.
- Meets the requirements of NCC 2022 Volume 1 F8D3(1)(a) & Housing Provisions 10.8.1(1)(a) through compliance with AS 4200.1.
- Complies to NCC Volume 1 2022 J4D3(1) and ABCB Housing provisions 2022 13.2.2(1) meeting requirements through compliance with AS/NZS 4859.1.
- When tested to AS/NZS 1530.2 this product does not exceed the 'Flammability index' as required by NCC 2022 Volume 1, S7C7 for Sarking-Type materials: In other locations.
- Achieves a Group Number of 2 and SMGR_{Arc} ≤ 100 m²/s² x 1000 in accordance with AS ISO 9705 and AS 5637.1. It may be used as an exposed wall or ceiling lining where specified by NCC Volume 1 2025 S7C4.
- Suitable for use in bushfire areas with a Bushfire Attack Level (BAL) Low-FZ (wall) or Low-40 (roof) in accordance with AS 3959.

NCC 2025

Sisalation® Foam Cell Resi Liner, when specified and installed correctly, meets the following compliances:

- Meets the requirements of NCC 2025 Volume 1 F1D13 as a sarking-type material complying with AS 4200.1.
- Meets the requirements of NCC 2025 Volume 1 F8D3 & Housing Provisions 10.8.1(1)(a) through compliance with AS 4200.1.
- Complies to NCC Volume 1 2025 J4D3(1) and ABCB Housing Provisions 2025 13.2.2(1) meeting requirements through compliance with AS/NZS 4859.1.
- When tested to AS/NZS 1530.2 this product does not exceed the 'Flammability index' as required by NCC 2025 Volume 1, S7C7 for Sarking-Type materials: In other locations.
- Achieves a Group Number of 2 and SMGR_{Arc} ≤ 100 m²/s² x 1000 in accordance with AS ISO 9705 and AS 5637.1. It may be used as an exposed wall or ceiling lining where specified by NCC Volume 1 2025 S7C4.
- Suitable for use in bushfire areas with a Bushfire Attack Level (BAL) Low-FZ (wall) or Low-40 (roof) in accordance with AS 3959.

Thermal performance

The thermal performance of Sisalation® Foam Cell Resi Liner varies with application, orientation and installation method.

Thermal properties

The following table provides indicative Total R-value calculations based on typical systems. To determine the Total R-value for a broader range of system types, contact the Fletcher Insulation Technical team at technical@insulation.com.au

	Pitched metal roof	Brick veneer
Heat flow in (Summer)	R2.1	R1.6
Heat flow out (Winter)	R1.3	R1.6

Pitched Metal Roof based on 22.5° pitch with 40mm unventilated air gap, Sisalation® Foam Cell Resi Liner, unventilated roof space and 10mm plasterboard ceiling. Brick veneer wall based on 110mm clay brick, 35mm unventilated air gap, Sisalation® Foam Cell Resi Liner, 90mm unventilated cavity and 10mm plasterboard.

Maintenance and conditions of use

- Use of pressure cleaners or mineral based cleaners must not be used on the foil facing product.
- Where Sisalation® Foam Cell products can be inspected, ensure any tears are repaired with appropriate tape, such as Vapastop® 883 Foil Tape.
- When storing, ensure product is protected from all physical damage at all times. Avoid storing product packaging under UV light (direct sunlight) for extended periods.
- Sisalation® Foam Cell products must be kept dry at all times, out of contact with direct sunlight and out of contact with alkaline products, cement and mortar as well as corrosive environments such as chlorine.
- Products exposed to harsh weather conditions prior to cladding must be inspected for damage and repaired or replaced to ensure compliance with the Product Warranty.
- Sisalation® Foam Cell products shall be installed in accordance with AS/NZS 4200.2 'Pliable Building Membranes and Underlays – Installation Requirements for Metal Roofs, Tile Roofs and Walls'.
- Building Designer to consider the suitability of this product based on the projects design requirements.

Health and Safety

Sisalation® Foam Cell Resi Liner contains aluminium foil and can conduct electricity. To avoid electrocution, care should be taken to ensure products do not come into contact with electrical wiring during installation or use. Sisalation® Foam Cell Multipurpose contains no substances which at their given concentration, are hazardous to health. Refer to SUIS for more information.

Technical specification

When specifying, state the following: The insulation shall be Sisalation® Foam Cell Resi Liner with a 150mm overlap and an Extra Heavy Duty rating in accordance with AS/NZS 4200.1. Supplied by Fletcher Insulation, the insulation material shall be installed in accordance with Fletcher Insulation installation guidelines available for download via www.insulation.com.au

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