

Sisalation® Bubble Cell

Reflective insulation

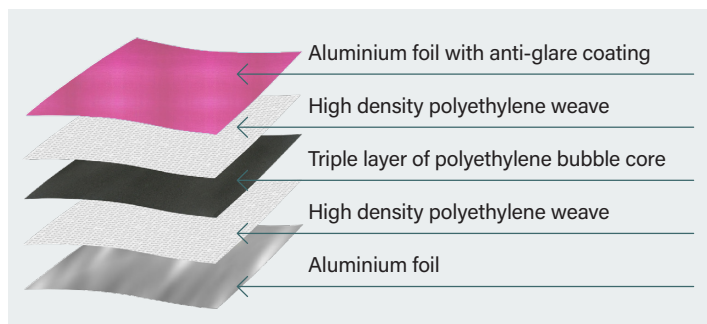
Description

Sisalation® Bubble Cell is a high quality reflective insulation composite incorporating a triple layer bubble core laminated between multiple layers of tough PE weave and reflective foil laminate. A red/pink anti-glare coating is applied to one side to minimise glare experienced during installation.

Applications

Sisalation® Bubble Cell is specifically designed for use in wall and roof applications. It is designed for use in both commercial and residential applications, subject to the product limitations outlined below.

Product composition



Features and benefits

Has high quality reflective properties	→	Can reduce up to 95% of the sun's radiant heat, allowing for cooler internal conditions.
Red/pink anti-glare coating on one side of membrane	→	Reduces the level of glare for installation safety.

Product data

Nominal thickness mm	Width mm	Overlap/flap mm	Length m	Area per roll m ²	Nominal weight per roll kg	Product code
4	1350	150	22.25	30	13	4006740

Physical properties

Property		Test method/standard	Result	Unit
Thermal Resistance R-value		AS/NZS 4859.1	R0.1	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 2 Vapour Barrier	
Vapour Permeance		ASTM E96	< 0.1429	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® Bubble Cell exhibits the following characteristics when tested in accordance with the following standards:

Property	Test method/standard	Result
Flammability Index	AS/NZS 1530.2	≤ 5 (Low)
Early Fire Hazard Indices	AS/NZS 1530.3	
Ignitability Index		0
Spread of Flame Index		0
Heat Evolved Index		0
Smoke Developed Index		1
BAL Compliance	AS 3959	Roof: 12.5–40 Wall: 12.5–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 AS1530.1 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 does not have a Group Number in accordance with AS 5637.1 (NCC 2022 Volume 1 S7C4, NCC 2025 Volume 1 S7C4) and is not suitable as an exposed internal wall and ceiling lining where a group number is required.
- This product is not vapour permeable and must not be used where the cladding manufacturer specifies a vapour permeable membrane.

- This product is a Class 2 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® Bubble 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® Bubble Cell 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.
- When tested to AS/NZS 1530.3 this product does not exceed the 'Spread of Flame' and 'Smoke Developed' as required by NCC 2022 Volume 1, S7C7 for insulation materials.

NCC 2025

- Sisalation® Bubble Cell 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 2022 Volume 1, S7C7 for Sarking-Type materials: In other locations.
- When tested to AS/NZS 1530.3 this product does not exceed the 'Spread of Flame' and 'Smoke Developed' as required by NCC 2025 Volume 1, S7C7 for insulation materials.

Thermal performance

The thermal performance of Sisalation® Bubble Cell varies with application, orientation and installation method. Please find thermal system properties in the below table.

Thermal system 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	Double brick cavity wall
Heat Flow In (Summer)	R2.1	R1.6
Heat Flow Out (Winter)	R1.3	R1.6

Pitched metal roof based on 22.5° pitch timber frame with 40mm unventilated air gap, Sisalation® Bubble Cell, unventilated roof space and 10mm flat plasterboard ceiling.

Double brick based on 110mm clay brick, 20mm unventilated air space, Sisalation® Bubble Cell, 20mm unventilated air space and 110mm clay brick.

Maintenance and conditions of use

- Use of pressure cleaners or mineral based cleaners must not be used on the foil facing product.
- Where Sisalation® Bubble 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® Bubble 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
- Sisalation® Bubble Cell products are not designed to withstand weathering hence the external cladding should be applied without delay.
- Sisalation® Bubble Cell products shall be installed in accordance with AS/NZS 4200.2 'Bubble Cell products 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® Bubble Cell 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® Bubble Cell contains no substances which at their given concentration, are hazardous to health. Refer to SUIS for more information.

Environmental properties

No ozone depleting substances were used in the manufacture of Sisalation® Bubble Cell. Specification of Sisalation® Bubble Cell guarantees the use of ODP free insulation while also ensuring that no harmful levels of Volatile Organic Compounds (VOCs) are released. This allows for the incorporation of environmentally preferable insulation whilst also maintaining indoor air quality.

Technical specification

When specifying, state the following: The insulation shall be Sisalation® Bubble Cell reflective insulation, reflective bubble cell core encapsulated between an upper and lower level of reflective foil laminate with a flammability index of ≤5 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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