Fletcher Insulation
Building Better, Together

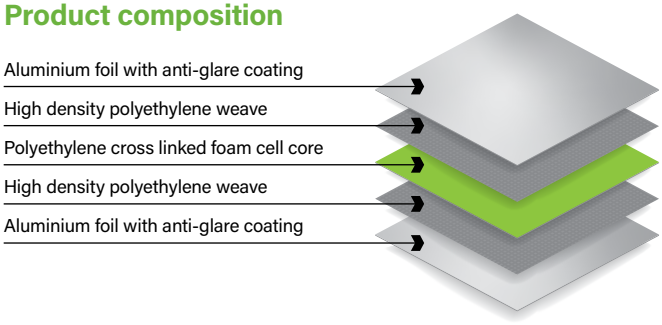
Technical data sheet

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 for installation safety. Sisalation® Foam Cell Resi Liner is specifically designed for use in wall and roof applications.

Product composition



Application

Sisalation® Foam Cell Resi Liner is ideal for use in residential applications such as cavity walls, roofs, sheds and garages. Sisalation® Foam Cell Resi Liner can reduce up to 95% of the sun's radiant heat, minimises the risk of condensation and act as an effective water and vapour barrier when installed according to AS/NZS 4200.2. When installed under a roof, the reflective face should be installed facing in and have a minimum air gap of 20mm to maximise thermal performance.

Sisalation® Foam Cell Resi Liner is easy to install and 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.

Features and benefits

Reflects up to 95% radiant heat	→	Allows for cooler internal conditions in hot and humid climates.
Includes a 150mm overlap along one edge	→	Faster installation with minimal taping and maximum coverage.
Effective water and vapour barrier	→	Aids in prevention of condensation.

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	395266

Physical properties

Properties	Test method/standard	Result	Unit
Thermal Resistance R-value	AS/NZS 4859.1	R0.11	m^2K/W
Emittance (reflective face)	AS/NZS 4201.5	IR Reflective (0.03)	
Emittance (anti-glare face)	AS/NZS 4201.5	IR Semi-Reflective (0.06)	
Duty Classification	AS/NZS 4200.1 Table 1	Extra Heavy	
Vapour Control	AS/NZS 4200.1	Class 1 Vapour Barrier	
Water Control	AS/NZS 4201.4	Water Barrier	
Vapour Permeance	ASTM E96	< 0.0022	µg/Ns
Electrical Conductivity	AS/NZS 3100	Electrically Conductive	
Shrinkage	AS/NZS 4201.3	≤ 0.5	%
Resistance to dry delamination	AS/NZS 4201.1	Pass	
Resistance to wet delamination	AS/NZS 4201.2	Pass	

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
Flammability Index	AS/NZS 1530.2	≤ 5 (Low)
BAL Compliance	AS 3959	Roof: Low–40 Wall: Low–FZ

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.

Health and Safety

Sisalation® Foam Cell Resi Liner contains no substances which at their given concentration, are hazardous to health. 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. Refer to the 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