

Sisalation® Foam Cell Multipurpose

Description

Sisalation® Foam Cell Multipurpose is a 3-in-1 multipurpose sarking solution. It 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.

Application

Sisalation® Foam Cell Multipurpose is specifically designed for use in wall and roof applications. It is ideal for use in both commercial and residential applications. For buildings of class 2 to 9 this product can be used as a wall or ceiling lining where a Group 2 rating is required.

Sisalation® Foam Cell Multipurpose 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.

Sisalation® Foam Cell Multipurpose can reduce up to 95% of the sun's radiant heat, minimises the risk of condensation and acts 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.

Product composition

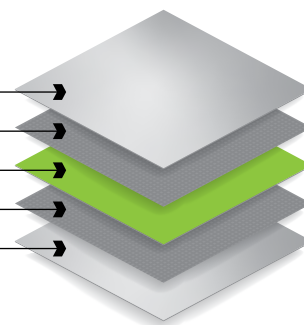
Aluminium foil with anti-glare coating

High density polyethylene weave

Polyethylene cross linked foam cell core

High density polyethylene weave

Aluminium foil with anti-glare coating



Features and benefits

A 3-in-1 sarking solution	→	Insulation + thermal break + vapour barrier.
Includes a 150mm non-foam overlap along one edge	→	Provides a seamless overlap to maximise coverage, minimise waste and improve aesthetics in exposed applications.
Reflects up to 95% radiant heat	→	Allows for cooler internal conditions in hot and humid climates.

Product data

Nominal thickness mm	Width mm	Overlap/flap mm	Length m	Area per roll m ²	Nominal weight per roll kg	Product code
8.4	1350	150	22.25	30	18	395264

Physical properties

Property	Test method/standard	Result	Unit
Thermal Resistance R-value	ASTM C518	R0.25	m ² K/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 Multipurpose 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 ISO9705	< 100
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: Low-40 Wall: Low-FZ

Thermal performance

The thermal performance of Sisalation® Foam Cell Multipurpose 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)	R2.3	R1.8
Heat Flow Out (Winter)	R1.4	R1.8

Pitched Metal Roof based on 22.50 pitch with 40mm unventilated air gap, Sisalation® Foam Cell Multipurpose, unventilated roof space and 10mm flat plasterboard ceiling. Double brick based on 110mm clay brick, 20mm unventilated air space, Sisalation® Foam Cell Multipurpose, 20mm unventilated air space and 110mm clay brick.

Health and safety

Sisalation® Foam Cell Multipurpose 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.

Environmental properties

No ozone depleting substances are used in the manufacture or composition of Sisalation® Foam Cell Multipurpose. Specification of Sisalation® Foam Cell Multipurpose 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® Foam Cell Multipurpose with a material R-value of R0.25 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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