

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 of the product to reduce the level of glare for additional installation safety.

Applications

Suitable for use as a sarking material in residential and commercial buildings, Sisalation® Bubble Cell has high quality reflective properties which reduce up to 95% of the sun's radiant heat and allows for cooler internal conditions.

Features and benefits

Has high quality reflective properties	→	Can reduce up to 95% of the sun's radiant heat, allowing for cooler internal conditions.
Acts as an insulating layer between warm indoor air and a cold wall or roof	→	Reduces the risk of condensation, to help minimise mould or moisture ingress.
Red/pink anti-glare coating on one side of membrane	→	Reduces the level of glare for installation safety.

Product composition

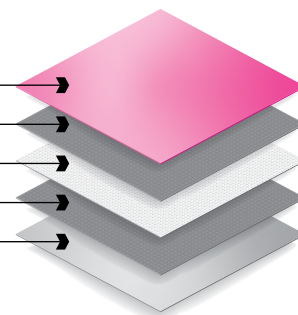
Aluminium foil with anti-glare coating

High density polyethylene weave

Triple layer of polyethylene bubble coreate

High density polyethylene weave

Aluminium foil with anti-glare coating



Product data

Nominal thickness mm	Width mm	Length m	Area per roll m ²	Nominal weight per roll kg	Product code
4	1350	22.25	30	14	395215

Physical properties

Property	Test method/classification	Result	Unit
Thermal Resistance R-value	AS/NZS 4859.1	0.1	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 2 Vapour Barrier	
Water Control	AS/NZS 4201.4	Water Barrier	
Vapour Permeance	ASTM E96	< 0.1429	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® 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		
Spread of Flame Index		
Heat Evolved Index		
Smoke Developed Index		
BAL Compliance	AS 3959	Roof: 12.5-40 Wall: 12.5-FZ

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)	R2.2	R1.6
Heat Flow Out (Winter)	R1.3	R1.6

Pitched metal roof based on 22.5° pitch timber frame with 40mm naturally ventilated 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.

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 SUIIS 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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