

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 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.

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 | 14 | 395264 |

Physical Properties

| Properties | 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 | | |
| Ignitability Index | | 0 |
| Spread of Flame Index | AS/NZS 1530.3 | 0 |
| Heat Evolved Index | | 0 |
| Smoked 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 | R1.7 |
| Heat Flow Out (Winter) | R1.4 | R1.7 |

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 Fletcher Insulation 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.

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