TECHNICAL
DATA SHEET

SISALATION®
TILE ROOF (465)

Product description and typical applications

Sisalation® Tile Roof is a strong, tear resistant pliable building membrane designed for use as sarking under concrete and terracotta (with the exception of slate) tile roofs. The membrane comprises of an outer layer of aluminium foil which is bonded to a kraft paper and reinforced with a tough polymer coated fabric. The coloured face of the polymer fabric minimises the level of glare experience during installation. The proprietary design and manufacturing techniques employed in the development of Sisalation® Tile Roof accounts for its exceptional duty rating.

Sisalation® Tile Roof acts as a protective membrane providing resistance to puncturing and tearing during installation of roof tiles which can result in rain ingress, particularly if the roof tiles become cracked or damaged. Additionally, the membrane provides protection against moisture content fluctuation of timber trusses, thus minimising the chance of nail plate pull-out.

Sisalation® Tile Roof assists in minimising draughts which enables the bulk insulation to perform more effectively. When overlapped the tough barrier protects the building frame by minimising the amount of rain and dust the wind blows into the roof.

Additionally, Sisalation® Tile Roof products contribute to the thermal performance of building systems. When installed adjacent to a minimum 20mm air-space, the reflective surface provides increased thermal performance and contributes to the overall energy efficiency of the building.
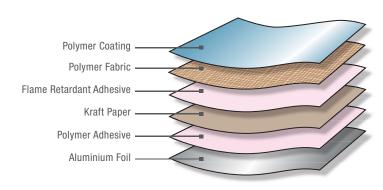
With a Flammability Index of ≤5 in accordance with AS 1530.2:1993, Sisalation® Tile Roof is suitable for use in Bushfire Areas with a Bushfire Attack Level (BAL) of 0 - 40 in accordance with AS 3959-2009.

Physical characteristics

Product	Width mm	Length m	Area per roll m²	Weight per roll kg	Product code
Tile Roof	1500	30	45.00	16.80	952299

Product composition

Sisalation® is a renowned building products brand that has pioneered the Australian industry for decades dating back to WWII. Years of experience, engineering and innovation enable Fletcher Insulation to supply a range of reflective foil composites specially designed to deliver optimum performance for each application.

Polymer Coating
Polymer Fabric
Flame Retardant Adhesive
Kraft Paper
Polymer Adhesive
Aluminium Foil

ZERO OZONE DEPLETING POTENTIAL

bsi. ISO 9001 Quality Management

bsi. AS/NZS 4801:2001 Occupational Health and Safety Management

BUSHFIRE CODE COMPLIANT*
ROOFS: BAL 0 - 40
WALLS: BAL 0 - FZ

*In accordance with AS 3959-2009 Construction of Buildings, Alterations and Additions in Bushfire Prone Areas

FletcherSpec pro ™
www.insulation.com.au/fletcherspecpro

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Technical specifications

Sisalation® Tile Roof products achieve the following classifications in accordance AS/NZS 4200.1:1994:

Duty rating	Heavy
Vapour barrier	Medium
Water barrier	High
Emittance of reflective face	0.03
Emittance of anti-glare face	0.80
Flammability index (in accordance with AS 1530.2)	≤5
Tensile strength - machine direction (kN/m)	Min. 12.5
Tensile strength - lateral direction (kN/m)	Min. 7.5
Edge tear resistance - machine direction (N)	Min. 80
Edge tear resistance - lateral direction (N)	Min. 80

Compliance

Sisalation® Tile Roof products comply with the National Construction Code (NCC) for sarking type materials and satisfy the following requirements:
- AS/NZS4200.1: 1994 for 'Pliable Building Membranes'.
- Deemed to Satisfy Standard - recognised by NCC Volumes 1 and 2.
- Achieve a low Flammability Index (≤5) in accordance with AS1530.2:1993.
- NCC Volume 2 Part 3.7.1.9 Fire Hazard Properties (Class 1 & 10 Buildings).
- NCC Volume 1 Specification C1.10 Fire Hazard Properties (Class 2 to 9 Buildings). Suitable for use as a sarking type material in locations other than fire control rooms subject to Specification E1.8.

Bushfire Attack Level (BAL)

Roof applications	BAL LOW - 40*
*In accordance with AS 3959-2009 "Construction of Buildings, Alterations and Additions in Bushfire Prone Areas".	

Thermal performance

The thermal performance of Sisalation® pliable building membranes vary with application, orientation and installation method. For complete Total R-value guidance visit www.insulation.com.au/fletcherspecpro

Important notes

- Sisalation® pliable building membrane products must be kept dry and out of contact with alkaline products, cement and mortar.
- Sisalation® pliable building membrane products are not designed to withstand weathering hence the external cladding should be applied without delay.
- Sisalation® pliable building membrane products shall be installed in accordance with AS/NZS 4200.2:1994 "Pliable Building Membranes and Underlays - Installation Requirements for Metal Roofs, Tile Roofs and Walls". Additional guidelines are available for download via www.insulation.com.au or by contacting Fletcher Insulation on 1300 654 444.
- Building Designer to consider the suitability of this product based on the projects design requirements.

Green Star compliant

Fletcher Insulation avoids the use of Ozone Depleting Potential (ODP) substances in the manufacture or composition of its FBS-1 Glasswool Bio-Soluble Insulation® and Sisalation® reflective foil products.
The use of Sisalation® pliable building membranes guarantees the use of zero ODP insulation while also ensuring that no harmful levels of Volatile Organic Compounds (VOC's) are released. This allows the incorporation of environmentally preferable insulation whilst also maintaining indoor air quality.

Specification notes

The tile roof sarking shall be Fletcher Insulation Sisalation® Tile Roof (465).

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