

## Sisalation® Tile Roof (465)

### Description

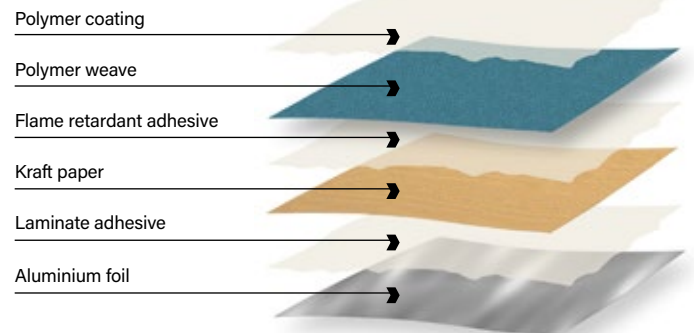
Sisalation® Tile Roof is a strong, tear resistant pliable building membrane designed for use as sarking under concrete and terracotta (with the exception of slate) tile roofs. The membrane comprises of an outer layer of aluminium foil which is bonded to a kraft paper and reinforced with a tough polymer 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.

### Product Composition



### Product data

Product	Width mm	Length mm	Area per roll m <sup>2</sup>	Weight per roll kg	Product code
Sisalation® Tile Roof (465)	1500	30	45.00	16.80	952299

### Physical properties

Property	Test method/standard	Test Result	Unit
Duty classification	AS4200: 2017 Table 1	Heavy duty	N
Edge tear	Machine direction	≥ 80	N
	Lateral direction		
Tensile strength	Machine direction	≥ 12.5	kN/m
	Lateral direction	≥ 7.5	
Vapour control	ASTM E96	Class 1 vapour barrier	
Water control		Water barrier	
Emittance	Anti-glare	IR Non-Reflective (0.9)	
	Silver side	IR Non-Reflective (0.3)	
Resistance to dry delamination	AS/NZS 4201.1.	Pass	
Resistance to wet delamination	AS/NZS 4201.2.	Pass	
Shrinkage	AS/NZS 4201.3.	≤ 0.5%	
Electrical conductivity	AS/NZS 3100	Electrically conductive	
Nominal thickness		< 1.0	mm

### Fire hazard properties

Sisalation® Tile Roof 465 Standard exhibits the following characteristics when tested in accordance with the following standards:

Property	Test method/standard	Result
Flammability Index (AS 1530.2)	Flammability AS/NZS 1530.2:1993 (R2016)	≤ 5 (Low)

### Compliance

Sisalation® Tile Roof 465 products comply with the National Construction Code (NCC) for sarking type materials and satisfy the following requirements:

- AS/NZS4200.1: 2017 for 'Pliable Building Membranes' Deemed to Satisfy Standard, recognised by NCC Volumes 1 and 2.
- NCC 2019 Volume 1 Non-Combustible building elements C1.9(e) (vi) Sarking-type materials that do not exceed 1mm in thickness and have a Flammability Index not greater than 5.
- NCC 2019 Volume 2 General Concession – Non-Combustible Materials 3.71.1 (f) Sarking-type materials that do not exceed 1mm in thickness and have a Flammability Index not greater than 5.
- Suitable for use in bushfire areas with a Bushfire Attack Level (BAL) Low-FZ in accordance with AS 3959:2018.

### 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](http://www.insulation.com.au/fletcherspecpro)

### Environmental properties

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.

### Important Notes

- Sisalation® pliable building membrane products must be kept dry, out of contact with direct sunlight and out of contact with alkaline products, cement and mortar as well as corrosive environments such as chlorine.
- 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 4200.2:2017 '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](http://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

When specifying, state the following:

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

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