

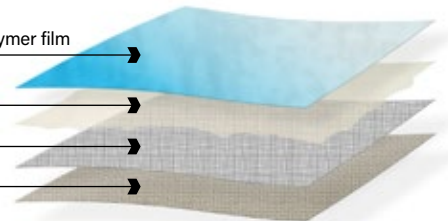
Sisalation® Vapawrap® Vapour Permeable Metal Roof

Description

Sisalation® Vapawrap® Vapour Permeable Metal Roof is a lightweight, highly vapour permeable flexible membrane engineered from resilient non-woven fabric. Sisalation® Vapawrap® Vapour Permeable Metal Roof has a high level of tensile strength designed to reduce damage during installation of metal roofing components. It has high resistance to water and is perfectly suited for residential and commercial buildings with high permeable, moisture transfer requirements.

Product composition

Water resistant permeable polymer film
 Adhesion
 Polymer mesh
 Spun-bonded polyolefin



Application

Sisalation® Vapawrap® Vapour Permeable Metal Roof is designed for use in residential and commercial metal roof applications in Australia's colder climate zones with metal roof span $\leq 900\text{mm}$ unsupported, or $\leq 1200\text{mm}$ supported. Provides an effective approach to managing condensation in the roof space by allowing the controlled escape of moisture from within the building. Sisalation® Vapawrap® Vapour Permeable Metal Roof is also suitable for use in commercial and residential wall applications, when a higher duty wall membrane is required. When overlapped and sealed with Seaming Tape, Sisalation® Vapawrap® Vapour Permeable Metal Roof provides a secondary skin against liquid water, wind and dust penetration from the outside environment and assists in minimising draughts, enabling bulk insulation to perform more effectively.

Features and benefits

High tensile strength	→	The membrane will resist damage from minor point loads or equipment during installation of roof sheeting. If product tears damage will be easy to repair with tapes.
High vapour permeance	→	Helps water vapour escape buildings working to reduce the chance condensation build up that may result in mould growth.
Water absorbent	→	Helps to reduce the chance of condensation build-up that may result in mould growth.
Flexible and lightweight	→	Easy to install, speeding up installation times.
Cohesive surface	→	Tapes adhere to surface easier, making installation faster and ensuring greater reliability of the water barrier.

Product data

Width mm	Length m	Area per roll m ²	Weight per roll kg	Product code
1350	30	40.5	4.7	256700

Physical properties

Property	Test method/standard	Result	Unit
Duty classification	AS4200: 2017 Table 1	Light	
Edge tear resistance	TAPPI T470	Machine	≥ 90
		Lateral	≥ 90
Tensile strength	AS 1301.448s	Machine	≥ 7.5
		Lateral	≥ 4.5
Vapour permeability	ASTM E96	>1.1403	ug/Ns
Vapour control	ASTM E96	Class 4 vapour permeable	
Water control	AS/NZS 4201.4	Water barrier	
Air control	ISO 5636-5:2003	>0.1 (Air Barrier)	MNs/m ³
Emittance	AS/NZS 4201.5	Anti-glare face	IR non-reflective (0.9)
		Silver side	IR non-reflective (0.9)
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 non-conductive	
Surface water absorbency	AS/NZS4201.6	100.1	g/m ²
Nominal thickness		< 1.0	mm

Fire hazard properties

Sisalation® Vapawrap® Vapour Permeable Metal Roof exhibits the following characteristics when tested in accordance with the following standards:

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

Compliance

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

- AS 4200.1 for 'Pliable Building Membranes' Deemed to Satisfy Standard, recognised by NCC Volumes 1 and 2.
- Meets the requirements of NCC 2022 Volume 1 F8D3 Condensation Management Deemed to Satisfy – External Wall Construction (1, a) (2, a, b) and NCC 2022 Volume 2 ABCB Housing provisions 10.8.1 (1, a) (2, a, b).
- NCC 2022 Volume 1 Non-Combustible building elements C2D10 (6, f) 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 H3D2 (2, a) 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 (walls) and low-40 in metal sheet applications in accordance with AS 3959.

Important notes

- Sisalation® Vapawrap® Vapour Permeable Metal Roof shall be installed in accordance with AS/NZS 4200.2:2017 'Pliable Building Membranes and Underlays – Installation Requirements' and Fletcher insulation Installation guide.
- Ensure to install Sisalation® Vapawrap® Vapour Permeable Metal Roof with the spun-bonded side facing outwards.
- Sisalation® Vapawrap® Vapour Permeable Metal Roof does not require any maintenance but when exposed through removal of cladding, the wrap must be inspected, and any damaged areas repaired or replaced.
- Sisalation® Vapawrap® Vapour Permeable Metal Roof must be stored in a clean, dry place and must be protected from damage and weather. Sisalation® Vapawrap® Vapour Permeable Metal Roof must not be exposed to UV light for more than 7 days.
- Building Designer to consider the suitability of this product based on the project design requirements.

Environmental properties

Ozone Depleting Potential (ODP) substances are not used in the manufacture or composition of Sisalation® Vapawrap® Vapour Permeable Metal Roof.

The use of Sisalation® Vapawrap® Vapour Permeable Metal Roof guarantees the use of zero ODP product while also ensuring that no harmful levels of Volatile Organic Compounds (VOCs) are released. This allows the incorporation of environmentally preferable products whilst also maintaining indoor air quality.

Warranty

For full details of warranty refer to the Fletcher Insulation website: www.insulation.com.au. Further to the standard Fletcher Insulation warranty for this product, it is important to use complimentary products that have been validated for use with this product and are as follows:

- Fletcher Insulation Pink® Batts
- Fletcher Insulation Permastop® Building Blanket

Technical specification

The roof membrane shall be Sisalation® Vapawrap® Vapour Permeable Metal Roof, Product Code 256700, or approved equal. The product must have the following properties;

- Classified Light Duty or greater
- Vapour Permeability 1.1403 ug/N.s or greater
- Minimum tensile strength machine direction 7.5 kN/m or greater
- Minimum tensile strength lateral direction 4.5 kN/m or greater

All joints and penetrations should be taped with Seaming Tape 50m x 48mm (318838) as per requirements of AS4200.2.

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