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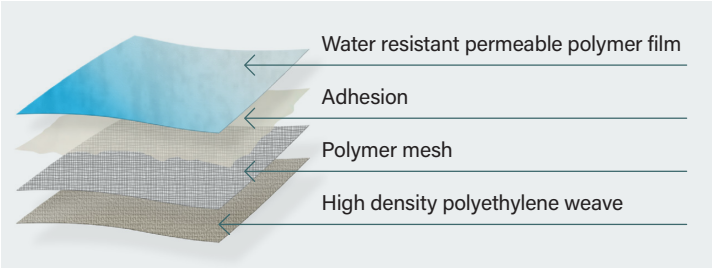
Technical data sheet

# Sisalation® Vapawrap® Vapour Permeable Metal Roof

## Description

Sisalation® Vapawrap® Vapour Permeable Metal Roof is a lightweight, highly vapour permeable flexible membrane engineered from non-woven fabric. Sisalation® Vapawrap® Vapour Permeable Metal Roof achieves a light duty classification and comprises of non-reflective spun-bonded polyolefin, reinforcing scrim and a water resistive permeable film.

## Product composition




## Application

Sisalation® Vapawrap® Vapour Permeable Metal Roof is Class 4 vapour permeable, air and water barrier for use in applications such as residential and commercial walls and residential and commercial metal roofs, subject to the product limitations outlined below.

## 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 of 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 | 4006885 |

## Physical properties

| Property | | Test method/standard | Result | Unit |
|---|---|---|---|---|
| Duty classification | | AS4200: 2017 Table 1 | Light | |
| Edge tear resistance | Machine | TAPPI T470 | ≥ 90 | N |
| | Lateral | | ≥ 90 | N |
| Tensile strength | Machine | AS 1301.448s | ≥ 7.5 | kN/m |
| | Lateral | | ≥ 4.5 | kN/m |
| 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 | Air barrier (≥0.1) | MNs/m$^3$ |
| Emittance | Anti-glare face | AS/NZS 4201.5 | 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 | High | |
| 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 | ≤ 5 (Low) |

## Product limitations

- **Important: Do Not Modify This Product:** Compliance with the evidence of suitability data referenced in this document is only achieved by the product or configuration listed.
- This product does not have a Group Number in accordance with AS 5637.1 (NCC 2022 Volume 1 S7C4, NCC 2025 Volume 1 S7C4) and is not suitable as an exposed internal wall and ceiling lining where a group number is required.
- This product is not suitable for applications where the cladding manufacturer specifies a vapour barrier membrane.
- This product is a Class 4 Vapour permeable and is not suitable for use in climate zone 1.
- This product is not designed to withstand prolonged weathering – exterior cladding should be installed within 6 weeks in a wall application, or 1 week in a roof application. Products exposed for longer than these periods will not be covered by the Product Warranty.
- Not suitable as a replacement for safety mesh or as a fall arrest system.
- This product does not provide a reflective R-value.
- This product has not been tested for pressure equalised façade applications.
- This product is not suitable for tile roof applications.
- Additional mechanical fasteners may be required for product exposed to adverse weather conditions. Product must be inspected for damage and repaired/replaced prior to cladding being installed.

## Compliance

### NCC 2022

Sisalation® Vapawrap® Vapour Permeable Metal Roof, when specified and installed correctly, meets the following compliances:

- Meets the requirements of NCC 2022 Volume 1 F3D3 as a sarking-type material complying with AS 4200.1
- Meets the requirements of NCC 2022 Volume 1 F8D3(1)(a) & Housing Provisions 10.8.1(1)(a) through compliance with AS 4200.1.
- When tested to AS/NZS 1530.2 this product does not exceed the 'Flammability index' as required by NCC 2022 Volume 1, S7C7 for Sarking-Type materials: In other locations.
- The product meets the NCC 2022 non-combustible material concession for sarking-type materials under Volume One Clause C2D10(6)(f) and Volume Two Clause H3D2(1)(f), as it does not exceed 1 mm in thickness and has a Flammability Index not greater than 5.
- Suitable for use in bushfire areas with a Bushfire Attack Level (BAL) Low–FZ (wall) or Low–40 (roof) in accordance with AS 3959.

### NCC 2025

Sisalation® Vapawrap® Vapour Permeable Metal Roof, when specified and installed correctly, meets the following compliances:

- Meets the requirements of NCC 2025 Volume 1 F1D13 as a sarking-type material complying with AS 4200.1.
- Meets the requirements of NCC 2025 Volume 1 F8D3(1)(a) & Housing Provisions 10.8.1(1)(a) through compliance with AS 4200.1.
- When tested to AS/NZS 1530.2 this product does not exceed the 'Flammability index' as required by NCC 2025 Volume 1, S7C7 for Sarking-Type materials: In other locations.
- The product meets the NCC 2025 non-combustible material concession for sarking-type materials under Volume One Clause C2D10(6)(f) and Volume Two Clause H3D2(1)(f), as it does not exceed 1 mm in thickness and has a Flammability Index not greater than 5.
- Suitable for use in bushfire areas with a Bushfire Attack Level (BAL) Low–FZ (wall) or Low–40 (roof) in accordance with AS 3959.

## Maintenance and conditions of use

- Pressure cleaners or mineral based cleaners must not be used on the product.
- Where Sisalation® Vapour Permeable Pliable Building Membranes can be inspected, ensure any tears are repaired with appropriate tape, such as Vapaseam Tape.
- When storing, ensure product is protected from all physical damage at all times. Avoid storing product packaging under UV light (direct sunlight) for extended periods.
- Sisalation® Vapour Permeable Pliable Building Membranes products must be kept out of contact with direct sunlight and out of contact with alkaline products, cement and mortar.
- Products exposed to harsh weather conditions prior to cladding must be inspected for damage and repaired or replaced to ensure compliance with the Product Warranty.
- Sisalation® Pliable Building Membranes shall be installed in accordance with AS 4200.2.
- Building Designer to consider the suitability of this product based on the projects 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.

## Technical specification

The roof membrane shall be Sisalation® Vapawrap® Vapour Permeable Metal Roof, Product Code 4006885.

The product must have the following properties:

- Classified Light Duty
- 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

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