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Technical data sheet

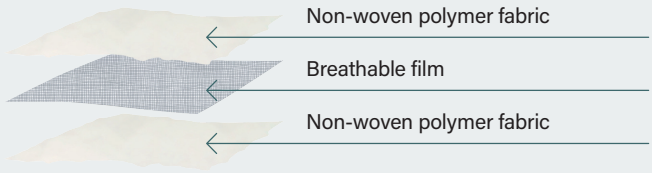
Sisalation® Vapawrap® Residential Wall Wraps

Water barrier vapour permeable wall membrane

Description

Sisalation® Vapawrap® Residential Wall Wraps are a lightweight, highly vapour permeable flexible membrane engineered from non-woven fabric. Sisalation Vapawrap Residential Wall Wraps comprises of non-reflective spun-bonded non-woven polymer and a water resistive permeable film.

Product composition



Application

Sisalation® Vapawrap® Residential Wall Wraps are Class 4 vapour permeable water barriers for use in residential and commercial wall applications, subject to the product limitations outlined below.

Features and benefits

UV exposure up to 3 months	→	Internal works can be completed before external building façade is installed, speeding up program of works and making schedule of works easier.
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

Product	Width mm	Length m	Area per roll m²	Nominal weight per roll kg	Product code
VP4-30	1350	30	40.5	4.7	4021556
VP4-30	1500	30	45	5.2	4021557
VP4-90	1350	30	40.5	4.7	4021549
VP4-90	1500	30	45	5.2	4021550

Physical properties

Property		Test method/Standard	Result	Unit
Duty Classification		AS/NZS 4200.1	Light Wall	
Burst Strength		AS 2001.2.19	≥ 200	N
Edge Tear	Machine	TAPPI T470	≥ 90	N
	Lateral		≥ 90	N
Vapour Permeability		ASTM E96	> 1.1403	µg/N.s
Vapour Classification		AS/NZS 4200.1	Class 4 Vapour permeable	
Water Control		AS/NZS 4201.4	Water barrier	
Emittance	Outwards face	AS/NZS 4201.5	IR Non-reflective (0.9)	
	Inwards face		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 4201.6	Electrically non-conductive	
Nominal Thickness			< 1.0	mm
Allowable UV exposure prior to completion of cladding		VP4-30	30	days
		VP4-90	90	days

Fire hazard properties

Sisalation® Vapawrap® Residential Wall Wraps exhibit the following characteristics when tested in accordance with the following standards:

Property	Test method/standard	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 classified as a light wall duty and cannot be used as a roof sarking.
- This product is not suitable for applications where the cladding manufacturer specifies a vapour barrier membrane.
- This product is a Class 4 Vapour barrier 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 30 days (VP–30) or 90 days (VP–90) in a wall application. Products exposed for longer than these periods will not be covered by the Product Warranty.
- This product does not provide a reflective R-value.
- This product has not been tested for pressure equalised façade 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® Residential Wall Wraps, 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) in accordance with AS 3959.

NCC 2025

Sisalation® Vapawrap® Residential Wall Wraps, 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) 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 dry at all times, 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® Vapour Permeable 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® Residential Wall Wraps.

The use of Sisalation® Vapawrap® Residential Wall Wraps 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

When specifying, please state the following:
The wall wrap insulation material shall be Fletcher Insulation Sisalation® Vapawrap® Residential Wall Wrap _____ width mm x _____ length mm, Product Code _____.

The product must have the following properties:

- Classified Light Wall Duty
- UV exposure up to 30 days or 90 days
- Vapour permeability 1.1403 µg/N.s or greater
- Vapour permeability classification – Class 4
- Classified as a Water barrier

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