

Sisalation® Tuff Wrap™ Wall Wrap Breather (497)

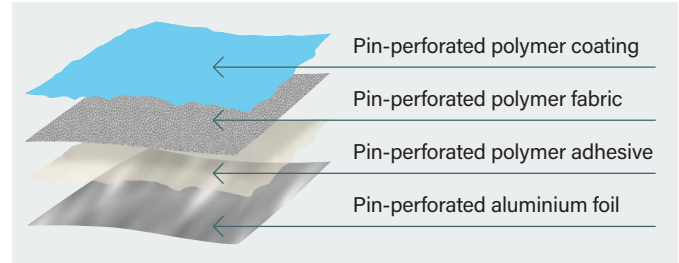
Description

Sisalation® Tuff Wrap™ Wall Wrap Breather (497) is a medium duty, vapour permeable single sided reflective aluminium foil and polyweave laminate. This product is pin perforated and is not a water barrier. The product has an antiglare face designed to minimise glare experienced during installation.

Applications

Sisalation® Tuff Wrap™ Wall Wrap Breather (497) is Class 3 vapour barrier and non-water barrier for use in residential wall applications, subject to the product limitations outlined below.

Product composition



Features and benefits

Superior strength wall wrap for residential timber and steel frames	→	Minimises draughts to allow bulk insulation to perform more effectively.
Provides a tough secondary layer of protection	→	Acts as a wind, heat and dust barrier.
Breather membrane allows for a degree of permeability	→	Assists in moisture and vapour control in walls to help manage condensation.

Product data

Width mm	Length m	Area per roll m2	Nominal weight per roll kg	Product code
1350	30	40.5	4.3	4006916
1350	60	81	9	4006914

Physical properties

Property		Test method/standard	Result	Unit
Duty classification		AS 4200.1	Medium duty	
Edge tear resistance	Lateral	TAPPI T470	≥ 65	N
	Machine		≥ 65	N
Tensile strength	Lateral	AS 1301.448s	≥ 6.0	kN/m
	Machine		≥ 9.5	kN/m
Water Control		AS/NZS 4201.4	Non-water barrier	
Vapour Control		AS 4200.1	Class 3 Vapour permeable	
Vapour permeance		ASTM E96	> 0.1429	ug/Ns
Emittance	Anti-glare face	AS/NZS 4201.5	IR Non-Reflective (0.9)	
	Silver side		IR Reflective (≤ 0.05)	
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® Tuff Wrap™ Wall Wrap Breather (497) exhibits the following characteristics when tested in accordance with the following standards:

Property	Test method/standard	Result
Flammability Index	AS 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 water barrier and/or Class 4 Vapour permeable.
- This product is a Class 3 Vapour permeable and is not suitable where a pliable building membrane or sarking-type material is required in:
 - Climate zones 6–8 per NCC 2022 Volume 1 F8D3 and ABCB Housing Provisions Standard 2022 10.8.1.
 - No cavity application is climate zone 3–5 and drained and ventilated cavity in climate zone 6–8 per NCC Volume 1 F8D3 & ABCB Housing Provisions 2025 10.8.1.
- This product is not recommended for use in climate zone 1.
- This product is not suitable as a substitute for safety mesh or a fall-arrest system.
- This products is not designed to withstand prolonged weathering – exterior cladding should be installed within 8 weeks in a wall application, or 2 weeks 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 is not suitable for use within 500m of a saltwater body in unenclosed, ventilated space.
- 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® Tuff Wrap™ Wall Wrap Breather (497) complies with the National Construction Code (NCC) for sarking type materials and satisfy the following requirements:

- Meets the requirements of NCC 2022 Volume 1 F3D3 as a sarking-type material complying 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 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.

NCC 2025

Sisalation® Tuff Wrap™ Wall Wrap Breather (497), 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 foil facing product.
- Where Sisalation® Pliable Building Membranes can be inspected, ensure any tears are repaired with appropriate tape, such as Vapastop® 883 Foil 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® 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 as well as corrosive environments such as chlorine.
- Sisalation® Pliable Building Membranes products are not designed to withstand weathering hence the external cladding should be applied without delay.
- 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

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® Tuff Wrap™ Wall Wrap Breather (497) guarantees the use of zero ODP insulation while also ensuring that no harmful levels of Volatile Organic Compounds (VOCs) are released. This allows the incorporation of environmentally preferable insulation whilst also maintaining indoor air quality.

Health and safety

There are no known health or safety risks associated with this product for applications described in this datasheet. Sisalation® Tuff Wrap™ Wall Wrap Breather (497) contains aluminium foil and can conduct electricity. To avoid electrocution, care should be taken to ensure products do not come into contact with electrical wiring during installation or use. For additional information or to request a Safety Use Information Sheet please visit www.insulation.com.au or contact your Fletcher Insulation Representative.

Technical specification

The pliable building membrane shall be Fletcher Insulation Sisalation® Tuff Wrap™ Wall Wrap Breather (497) _____ width mm x _____ length mm, Product Code _____ or approved equal.

The product must have the following properties:

- Classified Medium Duty
- Vapour permeability >0.1429
- Vapour permeability classification – Class 3

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