

Sisalation® Tuff Wrap™ Standard (497)

Description

Sisalation® Tuff Wrap™ Standard (497) is a medium duty, non-vapour permeable single sided reflective aluminium foil and polyweave laminate. This product has an antiglare face designed to minimise glare experienced during installation.

Application

Typically used as a wall wrap building membrane for residential timber and steel framed walls and gables, Sisalation® Tuff Wrap™ products assist in minimising draughts which enables bulk insulation to perform more effectively. Sisalation® Tuff Wrap™ Standard (497) is specifically designed for residential brick veneer applications in Climate Zone 1-3.

When overlapped and sealed with Vapastop® 883 aluminium foil tape, Sisalation® Tuff Wrap™ products provide a tough secondary layer for vapour and moisture control and acts as a wind, heat and dust barrier. The effective barrier also protects the building frame by minimising the amount of rain and dust that penetrates the wall.

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 and is not suitable in exposed internal wall or ceiling lining applications.
- This product is not suitable for wall applications where a vapour permeable, pliable building membrane is required per NCC Volume 1 & 2 or where the cladding manufacturer specifies a vapour permeable membrane.
- 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.

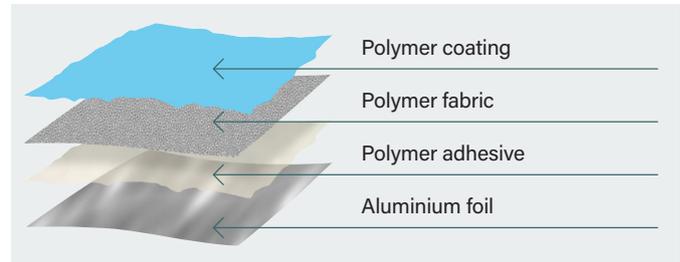
Features and benefits

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.
Minimises the amount of rain that penetrates the wall	→	Assists in moisture and vapour control.

Product data

Width mm	Length m	Area per roll m ²	Nominal weight per roll kg	Product code
1350	30	40.5	4.3	255088
1350	60	81	9	255092
1500	30	45	4.7	255385

Product composition



Physical properties

Property	Test method/classification	Test result	Unit
Duty Classification	AS4200: Table 1	Medium Duty	
Edge Tear	Machine	≥ 65	N
	Lateral	≥ 65	N
Tensile Strength	Machine	≥ 9.5	kN/m
	Lateral	≥ 6.0	kN/m
Water Control	AS/NZS 4201.4	Water Barrier	
Vapour Control	AS/NZS 4200.1	Class 2 vapour barrier	
Vapour Permeance	ASTM E96	<0.1429	µg/N.s
Air Control	ISO 5636-5	Air Control (>0.1)	MNs/m ³
Emittance	Anti-glare face	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%	
Electrically Conductive	AS/NZS 3100	Electrically Conductive	
Nominal Thickness		< 1.0	mm

Fire hazard properties

Sisalation® Tuff Wrap™ Standard (497) exhibits the following characteristics when tested in accordance with the following standards:

Property	Test method/standard	Result
Flammability Index (AS 1530.2)	AS/NZS 1530.2 (R2016)	≤ 5 (Low)
BAL Compliance	AS 3959	Roof: Low-40 Wall: Low-FZ

Compliance

NCC 2019

Sisalation® Tuff Wrap 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 2019 Volume 1 F6.2(a) & Volume 2 3.8.7.2(a) through compliance with AS 4200.1
- 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 3.7.1.1 (f) Sarking-type materials that do not exceed 1mm in thickness and have a Flammability Index not greater than 5.
- When tested to AS/NZS 1530.2 this product does not exceed the 'Flammability index' as required by NCC 2019
- Volume 1, Specification C1.10 Clause 7 for Sarking-Type materials: In other locations.
- 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 2022

- AS 4200.1 for 'Pliable Building Membranes' Deemed to Satisfy Standard, recognised by NCC Volumes 1 and 2.
- Meets the requirements of NCC 2019 Volume 1 F8D3 & Housing Provisions 10.8.1 through compliance with AS 4200.1
- Product meets non-combustible exemption for sarking type material outlined in 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 2022 Volume 2 General Concession – Non-Combustible Materials H3D2(1) (f) Sarking-type materials that do not exceed 1mm in thickness and have a Flammability Index not greater than 5.
- 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.
- Suitable for use in bushfire areas with a Bushfire Attack Level (BAL) Low-FZ (wall) or Low-40 (roof) in accordance with AS 3959.

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 (VOCs) are released. This allows the incorporation of environmentally preferable insulation whilst also maintaining indoor air quality.

Maintenance and conditions of use

- Use of 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/NZS 4200.2 'Pliable Building Membranes and Underlays – Installation Requirements for Metal Roofs, Tile Roofs and Walls'.
- Building Designer to consider the suitability of this product based on the projects design requirements.

Health and safety

There are no known health or safety risks associated with this product for applications described in this datasheet. Sisalation® Multipurpose EHD (456) 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 (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 2
- Classified as a Water Barrier

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