

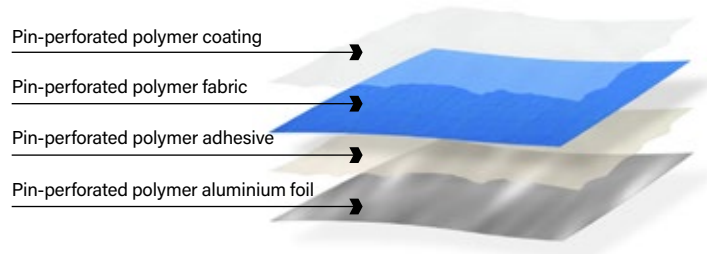
Sisalation® Tuff Wrap™ Wall Wrap Breather (497)

Description

Sisalation® Tuff Wrap™ Wall Wrap Breather (497) is designed to comply with the requirements of AS/NZS 4200.1. The product features a layer of aluminium foil which is bonded to a polymer-based weave. The blue coloured face of the polymer-weave minimises the level of glare experienced during installation.

The proprietary design and manufacturing techniques employed in the development of Sisalation® Tuff Wrap™ Wall Wrap Breather (497) accounts for its superior strength. This 'Breather' variant, distinguished by pin perforations, is better suited for use in applications where a degree of permeability is required in the wall design. Fletcher Insulation's Sisalation® Vapawrap permeable building membranes range may be a more suitable option where higher vapour permeance is required in a wall design. It is important that the cladding manufacturer's requirements are referred to when determining the suitability of a wall wrap for a given system.

Product composition



Applications

Typically used as a wall wrap building membrane for residential timber and steel framed walls and gables, Sisalation® Tuff Wrap™ Wall Wrap Breather (497) assists in minimising draughts which enables bulk insulation to perform more effectively. Sisalation® Tuff Wrap™ Wall Wrap Breather (497) is specifically designed for standard residential brick veneer applications. The product is not recommended for climate zone 1. When overlapped and sealed with Vapastop® 883 aluminium foil tape, Sisalation® Tuff Wrap™ Wall Wrap Breather (497) acts as a wind, heat and dust barrier. Sisalation® Tuff Wrap™ Wall Wrap Breather (497) is not a water barrier and cannot protect the building frame against strong wind, rain or storm.

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 skin on a build	→	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 m ²	Nominal weight per roll kg	Product code
1350	30	40.5	4.3	255089
1350	60	81	9	255087

Physical properties

Property	Test method/standard	Result	Unit
Duty classification	AS/NZS 4200.1	Medium duty	
Resistance to dry delamination	AS/NZS 4201.1	PASS	
Resistance to wet delamination	AS/NZS 4201.2	PASS	
Water control	AS/NZS 4201.4	Non-water barrier	
Vapour control	AS/NZS 4200.1	Class 3 vapour permeable	
Vapour permeance	ASTM E96	> 0.1429	ug/Ns
Emittance	Anti-glare face	IR non-reflective (0.9)	
	Silver side	IR reflective (0.03)	
Electrical conductivity	AS/NZS 3100	Electrically conductive	
Shrinkage	AS/NZS 4201.3	≤ 0.5	%
Edge tear resistance	Lateral	≥ 65	N
	Machine	≥ 65	N
Tensile strength	Lateral	≥ 6.0	kN/m
	Machine	≥ 9.5	kN/m
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/NZS 1530.2	≤ 5 (Low)

Compliance

Sisalation® Tuff Wrap™ Wall Wrap Breather (497) complies with the National Construction Code (NCC) for sarking type materials and satisfies the following requirements:

- AS/NZS4200.1 for 'Pliable Building Membranes' Deemed to Satisfy Standard, recognised by NCC Volumes 1 and 2.
- 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.
- Suitable for use in bushfire areas with a Bushfire Attack Level (BAL) Low-FZ 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® 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.

Important notes

- Sisalation® Tuff Wrap™ Wall Wrap Breather (497) must be kept dry, 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® Tuff Wrap™ Wall Wrap Breather (497) is not designed to withstand weathering, is not a weather barrier and cannot temporarily protect the building against strong wind, rain or storm. External cladding should be applied without delay.
- Sisalation® Tuff Wrap™ Wall Wrap Breather (497) shall be installed in accordance with AS/NZS 4200.2 'Pliable Building Membranes and Underlays – Installation Requirements for Metal Roofs, Tile Roofs and Walls'. Additional guidelines are available for download via www.insulation.com.au or by contacting Fletcher Insulation on 1300 654 444.
- Building Designer to consider the suitability of this product based on the projects design requirements.

Technical specification

When specifying, state the following:

The wall wrap material shall be Sisalation® Tuff Wrap™ Wall Wrap Breather (497). Supplied by Fletcher Insulation, the insulation material shall be installed in accordance with Fletcher Insulation installation guidelines available for download via www.insulation.com.au

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