

Sisalation® Tuff Wrap™ Standard (497)

Description

Sisalation® Tuff Wrap™ Standard (497) is designed to comply with the requirements of AS/NZS 4200.1:2017. 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™ products accounts for their superior strength.

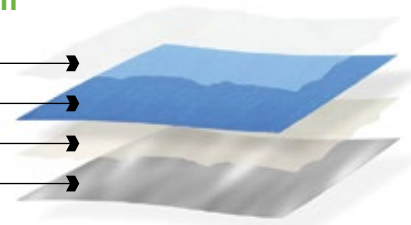
Product composition

Polymer coating

Polymer fabric

Polymer adhesive

Aluminium foil



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 1-5.

When overlapped and sealed with Vapastop® 883 aluminium foil tape, Sisalation® Tuff Wrap™ products provide a tough secondary skin 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.

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.
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	Weight per roll kg	Product code
1350	30	40.50	4.3	255088
1350	60	81.00	9.0	255092
1500	30	45.00	4.7	255385

Physical properties

Property		Test method/classification	Test result	Unit
Duty Classification		AS4200: 2017 Table 1	Medium Duty	
Edge Tear	Machine	TAPPI T470	≥ 65	N
	Lateral		≥ 65	N
Tensile Strength	Machine	AS 1301.448s	≥ 9.5	kN/m
	Lateral		≥ 6.0	kN/m
Vapour Control		ASTM E96	Class 2 vapour barrier	
Water Control		AS/NZS 4201.4	Water Barrier	
Emittance	Anti-glare face	AS/NZS 4201.5	IR Non-Reflective (0.9)	
	Silver side		IR Non-Reflective (0.03)	
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 1530.2:1993 (R2016)	≤ 5 (Low)

Compliance

Sisalation® Tuff Wrap™ products comply with the National Construction Code (NCC) for sarking type materials and satisfy the following requirements:

- AS/NZS4200.1: 2017 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 3959:2018.

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

Important notes

- Sisalation® pliable building membrane products 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® pliable building membrane products are not designed to withstand weathering hence the external cladding should be applied without delay.
- Sisalation® pliable building membrane products shall be installed in accordance with AS/NZS 4200.2:2017 '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.

Specification notes

When specifying, state the following:

The wall wrap material shall be Sisalation® Tuff Wrap™ Standard (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

© Fletcher Insulation Pty Limited 2022. Fletcher Insulation reserves the right to change product specifications without prior notification. Information in this publication and otherwise supplied to users as to the subject product is based on our general experience and is given in good faith, but because of the many particular factors which are outside our knowledge and control and affect the use of products, no warranty is given or is to be implied with respect to either such information or the product itself, in particular the suitability of the product for any particular purpose. The purchaser should independently determine the suitability of the product for the intended application. The colour PINK, Pink® and Pink Batts® are registered trademarks of Owens Corning Intellectual Capital, LLC used under licence by Fletcher Insulation. FBS-1 Glasswool Bio-Soluble Insulation® is a registered trademark of ICANZ. Unless otherwise stated all ™ and ® are trademarks and registered trademarks of Fletcher Insulation Pty Limited ABN 72 001 175 355. FTDS12_Revision_3_Issue date 01032023.