

# TECHNICAL DATA SHEET

## SISALATION®

### TUFF WRAP (497)



#### Product description and typical applications

The Sisalation® Tuff Wrap range is designed to comply with the requirements of AS/NZS 4200.1:1994. Each product features a layer of aluminium foil which is bonded to a polymer-based weave. The 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.

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. The '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® 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.

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 also act 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.

Additionally, Sisalation® Tuff Wrap products contribute to the thermal performance of building systems. When installed adjacent to a minimum 20mm air-space, the reflective surface provides increased thermal performance and contributes to the overall energy efficiency of a building.

With a Flammability Index of ≤5 in accordance with AS 1530.2:1993, Sisalation® Tuff Wrap products are suitable for use in Bushfire Areas with a Bushfire Attack Level (BAL) of 0 - FZ in accordance with AS 3959-2009.



#### Physical characteristics

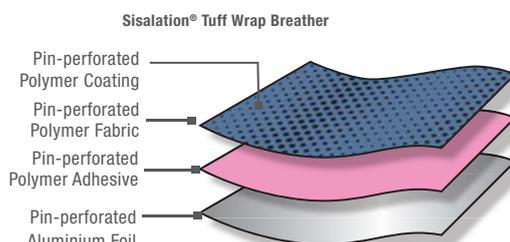
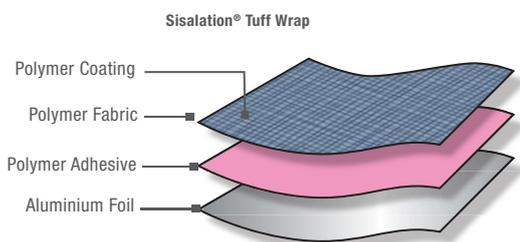
Product	Width mm	Length m	Area per roll m <sup>2</sup>	Weight per roll kg	Product code
Tuff Wrap	1350	30	40.50	4.30	255088
		60	81.00	9.00	255092
	1500	30	45.00	4.70	255385
Tuff Wrap Breather	1350	30	40.50	4.30	255089
		60	81.00	9.00	255087
	1500	30	45.00	4.70	255393



\*In accordance with AS 3959-2009 Construction of Buildings, Alterations and Additions in Bushfire Prone Areas

#### Product composition

Sisalation® is a renowned building products brand that has pioneered the Australian industry for decades dating back to WWII. Years of experience, engineering and innovation enable Fletcher Insulation to supply a range of reflective foil composites specially designed to deliver optimum performance for each application.



## Technical specifications

Sisalation® Tuff Wrap products achieve the following classifications in accordance AS/NZS 4200.1:1994:

	Wall Wrap	Wall Wrap Breather
Duty rating	Medium	Medium
Vapour barrier	Medium	Low
Water barrier	High	Unclassified
Emittance of reflective face	0.03	0.03
Emittance of anti-glare face	0.80	0.80
Flammability index (in accordance with AS 1530.2)	≤5	≤5
Tensile strength - machine direction (kN/m)	Min. 9.5	Min. 9.5
Tensile strength - lateral direction (kN/m)	Min. 6.0	Min. 6.0
Edge tear resistance - machine direction (N)	Min. 65	Min. 65
Edge tear resistance - lateral direction (N)	Min. 65	Min. 65

## Compliance

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

- AS/NZS4200.1: 1994 for 'Pliable Building Membranes' - Deemed to Satisfy Standard - recognised by NCC Volumes 1 and 2.
- Achieves a low Flammability Index (≤5) in accordance with AS1530.2:1993.
- NCC Volume 2 Part 3.7.1.9 Fire Hazard Properties (Class 1 & 10 Buildings).
- NCC Volume 1 Specification C1.10 Fire Hazard Properties (Class 2 to 9 Buildings). Suitable for use as a sarking type material in locations other than fire control rooms subject to Specification E1.8.

## Bushfire Attack Level (BAL)

Wall Applications	BAL LOW - FZ*
*In accordance with AS 3959-2009 "Construction of Buildings, Alterations and Additions in Bushfire Prone Areas".	

## Thermal performance

The thermal performance of Sisalation® pliable building membranes vary with application, orientation and installation method. For complete Total R-value guidance visit [www.insulation.com.au/fletcherspecpro](http://www.insulation.com.au/fletcherspecpro)

## Important notes

- Sisalation® pliable building membrane products must be kept dry and out of contact with alkaline products, cement and mortar.
- 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 4200.2:1994 "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](http://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.

## Green Star compliant

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.

## Specification notes

The wall wrap material shall be Fletcher Insulation Sisalation® Tuff Wrap (497) \_\_\_\_\_ (specify Standard or Breather).

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