

# TECHNICAL DATA SHEET

## TYVEK® HOMEWRAP VAPOUR PERMEABLE BUILDING MEMBRANE

### Product description and typical applications

Tyvek® HomeWrap is a micro-fibrous, highly breathable wall wrap that is used as an adjunct to bulk insulation in walls. Tyvek® HomeWrap helps protect a home against damaging wind and rain that can penetrate through exterior cladding. The unique structure of Tyvek® HomeWrap blocks excess water from entering into walls. Additionally, its breathable structure allows water vapour to pass through to facilitate drying in wall systems which thereby assists in preventing the growth of mould and mildew.

Tyvek® HomeWrap is produced by spinning fine, high density polyethylene fibres that are fused together to form a strong, uniform web. The tough structure of Tyvek® HomeWrap is engineered to create millions of extremely small pores that resist liquid and air penetration whilst allowing water vapour to pass through. Tyvek® HomeWrap offers a functional layer which is six to eight times thicker than the most common multi-layer products composed of a very thin functional layer.

### Physical characteristics

Width mm	Length m	Coverage m <sup>2</sup>	Weight per roll kg	Product code
2743	30	82.29	5.11	395121
3048	30	91.44	5.68	395994

### Technical specifications

Tyvek® HomeWrap achieves the following classifications in accordance AS/NZS 4200.1:1994:

Duty rating	Light*
Vapour barrier	Low
Water barrier	High
Emittance Side A and Side B	0.51
Flammability index (in accordance with AS 1530.2)	≤5
Tensile strength - machine direction (kN/m)	4.6
Tensile strength - lateral direction (kN/m)	5.2
Edge tear resistance - machine direction (N)	225
Edge tear resistance - lateral direction (N)	216

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## Compliance

Tyvek® HomeWrap complies with the National Construction Code (NCC) for sarking type materials used in walls and satisfies 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 ( $\leq 5$ ) 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 Levels (BAL)

Wall applications	BAL LOW – FZ*
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\*In accordance with AS 3959 - 2009

## Thermal performance

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

## Specification notes

- Tyvek® HomeWrap is not designed to withstand prolonged weathering, hence the external cladding should be applied within 2 months of installation.
- Product must not be installed in areas where winds exceed 120kph.
- Tyvek® HomeWrap 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".
- Tyvek® HomeWrap should not be used under roofs. Due to the lightweight nature of the product, wind may cause excessive flapping and noise.

## Green Star compliant

The use of Tyvek® HomeWrap guarantees the use of ODP free 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.

## Specification notes

The wall wrap material shall be Fletcher Insulation Tyvek® HomeWrap.

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