

TECHNICAL DATA SHEET

PERMASTOP® BUILDING BLANKET REFLECTIVE THERMAL & ACOUSTIC INSULATION BLANKET

Product description and typical applications

Permastop® Building Blanket is a reflective insulation composite comprising of a glasswool blanket substrate that is faced on one side with a high quality Sisalation® reflective foil laminate. For ease of installation, the reflective foil laminate features a 150mm overlap along one side edge.

Australian made Permastop® Building Blanket is suitable for use in residential and commercial metal clad roof applications as well as metal clad walls. It provides excellent thermal and acoustic properties by reducing heat loads entering a building and minimising the internal reverberation and flow of unwanted nuisance noise generated from adjacent buildings/rooms and/or the external environment. Additionally, the Sisalation® reflective foil component of Permastop® Building Blanket aids in minimising the risk of condensation that can form in a metal clad roof.

Where the foil surface of Permastop® Building Blanket is required to maintain a vapour barrier, all joins should be sealed with a suitable Fletcher Insulation tape. Permastop® Building Blanket is typically installed with the reflective surface facing downwards into the air-space below; except in hot and humid tropical regions where the reflective foil is typically installed on the underside of the metal roof sheet. In such conditions, where the building blanket is used in an exposed application, Fletcher Insulation recommends installing the blanket as per standard procedures and running an additional layer of anti-glare foil laminate atop the blanket towards the metal roof sheet. This allows for an enhanced aesthetic finish.

Permastop® Building Blanket is suitable for use in bushfire areas with a Bushfire Attack Level (BAL) of 0 – 40 in accordance with AS 3959-2009. Note: where aesthetics is of critical importance, Fletcher Insulation recommends installing the foil layer separately followed by the glasswool building blanket.

Physical characteristics

| Foil Facing Type | Material R-value m²K/W | Nominal thickness mm | Width mm | Length m | m² per roll | Product code |
|---|------------------------|----------------------|----------|----------|-------------|--------------|
| Sisalation® Light Duty (LD) reflective foil laminate Group no. 1 AS5637* | R1.3 | 55 | 1200 | 15 | 18.00 | 912150 |
| | R1.3 | 55 | 1200 | 20 | 24.00 | 912200 |
| | R1.4 | 60 | 1200 | 15 | 18.00 | 910150 |
| | R1.4 | 60 | 1200 | 20 | 24.00 | 910200 |
| | R1.8 | 75 | 1200 | 15 | 18.00 | 913150 |
| | R1.8 | 75 | 1400 | 15 | 21.00 | 912075 |
| | R2.0 | 90 | 1200 | 15 | 18.00 | 914162 |
| | R2.3 | 100 | 1200 | 10 | 12.00 | 914163 |
| | R2.5 | 100 | 1200 | 10 | 12.00 | 914100 |
| | R3.0 | 130 | 1200 | 10 | 12.00 | 930100 |
| Sisalation® Medium Duty (MD) reflective foil laminate Group no. 2 AS5637* | R1.3 | 55 | 1200 | 15 | 18.00 | 917150 |
| | R1.4 | 60 | 1200 | 15 | 18.00 | 910151 |
| | R1.8 | 75 | 1200 | 15 | 18.00 | 918150 |
| | R2.3 | 100 | 1200 | 10 | 12.00 | 911471 |
| | R2.5 | 100 | 1200 | 10 | 12.00 | 919100 |
| | R3.0 | 130 | 1200 | 10 | 12.00 | 931100 |
| | R3.2 | 130 | 1200 | 10 | 12.00 | 930201 |
| Sisalation® Heavy Duty (HD) reflective foil laminate Group no. 2 AS5637* | R1.3 | 55 | 1200 | 15 | 18.00 | 927150 |
| | R1.4 | 60 | 1200 | 15 | 18.00 | 910152 |
| | R1.8 | 75 | 1200 | 15 | 18.00 | 928150 |
| | R2.3 | 100 | 1200 | 10 | 12.00 | 928163 |
| | R2.5 | 100 | 1200 | 10 | 12.00 | 929100 |
| | R3.0 | 130 | 1200 | 10 | 12.00 | 932100 |
| | R3.2 | 130 | 1200 | 10 | 12.00 | 930301 |
| R3.6 | 130 | 1200 | 6.5 | 7.80 | 930364 | |

*AS5637.1:2015: Determination of fire hazard properties - Wall and ceilings



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



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Thermal performance

Permastop® Building Blanket complies with the requirements of AS/NZS 4859.1:2002 including Amendment 1. The thermal performance of Permastop® Building Blanket varies with application and installation method. For complete Total R-value guidance visit www.insulation.com.au/fletcherspecpro

Bushfire Attack Level (BAL)

Permastop® Building Blanket is suitable for use in bushfire areas with a Bushfire Attack Level (BAL) of 0 - 40 as outlined in AS 3959. The glasswool component of Permastop® Building Blanket is classified as non-combustible in accordance with AS 1530.1 and is suited for sealing ember entry points at ridges, valleys and fascias to meet NCC requirements for metal clad roofs in bushfire areas. The Sisalation® reflective foil facing component satisfies the NCC flammability index requirement of ≤ 5 .

Early fire hazard properties

Permastop® Building Blanket achieves the following results when tested in accordance with AS1530.3-1999:

| | |
|-----------------------|-----|
| Ignitability Index | 0 |
| Spread of Flame Index | 0 |
| Heat Evolved Index | 0 |
| Smoke Developed Index | 0-1 |

Maximum service temperature

Permastop® Building Blanket is manufactured for use at temperatures that are normally experienced in building systems. The maximum surface temperature of the glasswool substrate is 340°C. However, given a foil facing is applied to the substrate; the surface temperature of Permastop® Building Blanket should not exceed 70°C.

Moisture absorption

Permastop® Building Blanket absorbs less than 0.2% moisture by volume when exposed to environmental conditions of 50°C and 95% relative humidity for four days.

Alkalinity

When tested in accordance with British Standard 3958, Fletcher Insulation™ glasswool products receive a rating of pH9 (pH7 is neutral). They will not promote or accelerate the corrosion of steel or galvanised steel studs provided they are protected from external contamination.

Safe to use

Permastop® Building Blanket is manufactured from FBS-1 Glasswool Bio-Soluble Insulation®. FBS-1 Glasswool Bio-Soluble Insulation® is safe to use and meets the criteria of the Australian Safety and Compensation Council (formerly NOHSC) to be classified as non-hazardous. Fletcher Insulation™ glasswool can be used with confidence in any residential, commercial or industrial application.

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 Permastop® Building Blanket 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 insulation material shall be Fletcher Insulation Permastop® Building Blanket ____ (specify foil duty rating i.e. LD, MD or HD) with a Material R-value of R ____ m² K/W (specify Material R-value) at a nominal thickness of ____ mm (specify nominal thickness).

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