

Permastop® Tropic Building Blanket

Reflective faced glasswool insulation blanket for tropical climates

Description

Permastop® Tropic Building Blanket is a glasswool blanket containing up to 80% recycled content faced with a high quality Sisalation® lightweight facing foil on the underside (inward facing when installed) of the Glasswool blanket and Sisalation® Multipurpose 439 Light duty faced on the topside (outward facing when installed). For ease of installation, the reflective foil laminate has a 150mm overlap along one side (lengthwise) for sealing the blanket. The outward foil face also features an anti-glare coating allowing for increased install safety.

Applications

Permastop® Tropic Building Blanket is specifically designed for use in Australia's hot and humid tropical regions to provide increased condensation protection to buildings. In such regions, it is customary to install the vapour barrier on the upper side of the building blanket which faces the roof sheet. This ensures the vapour barrier is installed on the warm side of the building to provide greater protection against the risk of condensation. Permastop® Tropic Building Blanket is suitable for use in metal clad roof applications. It provides excellent thermal and acoustic properties by reducing heat loads entering a building and by minimising the internal reverberation and flow of unwanted nuisance noise generated from adjacent buildings/ rooms and/or the external environment.

Permastop® Tropic Building Blanket is not recommended for use in commercial roofing applications where an insulation spacer is required. In such applications, Fletcher Insulation recommends Permastop® Building Blanket is installed with Roof Razor® insulation spacer. An additional layer of Sisalation® reflective foil laminate should then be laid above the blanket and spacer to achieve the same benefits Permastop® Tropic Building Blanket provides.

Product data

Foil Facing Type	Material R-value m ² K/W	Thickness mm	Width mm	Length m	m ² per roll	Product code
Sisalation® Light Duty (LD) Facing Foil (436)	1.4	60	1200	15	18	910239
	1.8	75	1200	15	18	913202

Physical properties

Property	Test method	Result	Unit
Thermal resistance R-value	AS/NZS 4859.1	Complies	m ² K/W
Moisture absorption	When exposed to environmental conditions of 50°C and 95% relative humidity for four days	< 0.2	% by volume
Maximum service temperature	ASTM C411/C447	Glasswool: 350 Foil: 70	°C
pH	ASTM C871	9 (does not contribute to the corrosion of steel structures)	

Fire hazard properties

Permastop® Tropic Building Blanket exhibits the following characteristics when tested in accordance with the following standards:

Property	Test method/standard	Result
Combustibility (unfaced Pink® Building Blanket only)	AS 1530.1	Non-combustible
Flammability (Sisalation® LD Facing Foil)	AS/NZS1530.2	≤ 5
Early Fire Hazard Indices	AS/NZS 1530.3	
Ignitability Index		0
Spread of Flame Index		0
Heat Evolved Index		0
Smoke Developed Index		2
BAL Compliance	AS 3959	Low-40

Health and safety

Permastop® Tropic Building Blanket is manufactured from FBS-1 Glasswool Bio-Soluble Insulation®. FBS-1 Glasswool Bio-Soluble Insulation® is safe to use and is classified as non-hazardous according to the criteria of Safe Work Australia. Fletcher Insulation glasswool can be used with confidence in any residential, commercial or industrial application.

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 Permastop® Tropic Building Blanket 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.

Technical specification

When specifying, state the following:

The insulation material shall be Fletcher Insulation Permastop® Tropic Building Blanket with a Material R-value of R_____m²K/W (specify Material R-value) at a nominal thickness of _____mm (specify nominal thickness).