

Permatuff™ Reflective faced glasswool

Description

Permatuff™ is a reflective glasswool blanket containing up to 80% recycled content, faced with a strong, puncture-resistant polyweave laminate. The reflective foil laminate features a 150mm overlap along one side edge.

Applications

Australian made Permatuff™ insulation blanket is suitable for use in non-exposed residential and commercial metal clad roof linings and internal wall applications. 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 Permatuff™ insulation blanket aids in minimising the risk of condensation that can form in a metal clad roof.

Product data

Facing Foil Type	Material R-value m ² K/W	Thickness mm	Width mm	Length m	m ² per roll	Product code
Sisalation® Multipurpose EHD (456)	R1.3	55	1200	15	18	905151
			1200	20	24	905201
	R1.8	75	1200	15	18	905156
			1200	20	24	905202
	R2.5	100	1200	10	12	905205

Physical properties

Property	Test method/standard	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

Permatuff™ insulation 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/NZS 1530.1	Non-combustible	
Flammability (facing foil)	AS/NZS 1530.2	≤ 5	
Early Fire Hazard Indices	AS/NZS 1530.3		
Ignitability Index			0
Spread of Flame Index			0
Heat Evolved Index			0
Smoke Developed Index		0-1	
BAL Compliance	AS 3959	Low-40	

Health and safety

Permatuff™ 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 Permatuff™ 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 Permatuff™ with a Material R-value of R_____m²K/W (specify Material R-value) at a nominal thickness of _____mm (specify nominal thickness).