

# GLASSWOOL BUILDING BLANKET

General Purpose Building Blanket

## PRODUCT DESCRIPTION AND TYPICAL APPLICATIONS

Glasswool Building Blanket is a lightweight, flexible and resilient glasswool material, providing thermal insulation performance with the added benefit of being an effective sound absorption material. Glasswool Building Blanket is available in three nominal thicknesses 55mm, 75mm and 100mm, providing R-values, R1.3, R1.8 and R2.3, where certifiable thermal performance is required. These products are also available with a Sisalation® vapour barrier foil adhered to the blanket where condensation prevention is required (See Permastop™ data sheet). Glasswool Building Blanket provides excellent thermal and acoustic insulation when installed under metal deck roofs and in metal

clad walls. Perforated facings can also be laminated to Glasswool Building Blanket for wall linings in gymnasiums, warehouses, etc. The predictable thermal performance (R-values) of R-Blanket will assist designers in calculating heat load on a structure. This will allow more accuracy in predicting internal comfort levels, sizing of air-conditioning systems, energy management, etc, thus avoiding the common practice of including estimated but unmeasurable R-values of other building components to compensate for under-performing insulation. The use will also provide energy cost savings and increased personal comfort for building occupants.

## PHYSICAL CHARACTERISTICS

Thickness (mm)	Material R-value (m <sup>2</sup> K/W)	Dimensions (mm)	Area per Roll (m <sup>2</sup> )
55	R1.3	15m x 1200	18
		20m x 1200	24
		30m x 1200	36
75	R1.8	15m x 1200	18
		20m x 1200	24
100	R2.3	10m x 1200	12

## EARLY FIRE HAZARD RATING

When tested in accordance with AS1530 Part 3 - "Early Fire Hazard Properties of Materials", Glasswool Building Blanket exhibits the following characteristics. Tests conducted by AWTA.

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

## MOISTURE ABSORPTION

Dry sample of blanket placed in conditions of 95% relative humidity at 50°C for 96 hours. Moisture Absorption less than 0.2% by volume.

## ALKALINITY

When tested in accordance with British Standard 3958, Fletcher Insulation™ glasswool products are slightly alkaline pH9 (neutral is pH7). They will not promote or accelerate the corrosion of

steel or galvanised steel studs, provided they are protected from external contamination.

## BUILDING CODE OF AUSTRALIA (BCA)



The Energy Efficiency provisions of the BCA requires that all insulation complies with the requirements of the Australian/New Zealand standard AS/NZS4859.1 - Materials for the thermal insulation of buildings. AS/NZS4859.1 specifies testing and labelling requirements for all types of insulation incorporated into the

building envelope and its services. The thermal resistance (R-value) shown on all labelling must be determined by a recognised laboratory, accredited to test to the relevant standards and procedures. All applicable *Fletcher Insulation* products are independently certified by an accredited organisation to comply with AS/NZS4859.1.

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Fletcher<sup>™</sup>  
Insulation

## MAXIMUM SERVICE TEMPERATURE

Glasswool Building Blanket has a maximum service temperature of 340°C.

## SPECIFICATION NOTES

### State the following:

- Product name - *Fletcher Insulation* Glasswool Building Blanket
- R-value (or thickness) required - R1.3, R1.8 or R2.3
- Area required
- Location in building and description of work
- Type of vapour barrier (if required). Whether vapour barrier is rolled-in with the blanket, laid separately or adhered to the blanket.

## GENERAL INSTALLATION ADVICE

- Install *Fletcher Insulation* Glasswool Building Blanket in a dry state.
- Where cutting is required use a sharp knife and straight edge. Cutting with power tools is not recommended
- Butt blanket firmly on end and side joins. Fit tightly around roof protrusions. Fill gaps with off-cuts to avoid heat leakages.
- Under a metal deck roof or metal clad walls, the use of a moisture vapour barrier on the warm side of the structure (inside) should be considered to prevent condensation from occurring.
- Care should be taken not to cover electrical wiring with insulation material.

## BIO-SOLUBILITY

*Fletcher Insulation* glasswool products are manufactured from FBS-1 Bio-Soluble Glass Wool<sup>™</sup>. FBS-1 Bio-Soluble Glass Wool<sup>™</sup> is classified as non-hazardous according to the criteria of the Australian Safety and Compensation Council (formerly

NOHSC), Approved Criteria for Classifying Hazardous Substances (NOHSC:1008) 3rd Edition. *Fletcher Insulation* glasswool is classified as safe to use, refer to our MSDS.



## SUSTAINABILITY

Sustainability...measures that satisfy the needs of people today while enhancing the quality of life for future generations. The demands on non-renewable resources for the production of energy are not sustainable without compromising the environment. Insulation, correctly specified and installed, is one of the most critical products in improving energy efficiency and reducing the levels of greenhouse gas emissions. *Fletcher*

*Insulation* is committed to providing environmentally sustainable products and utilises up to 70% recycled waste glass in the production of glasswool insulation. *Fletcher Insulation* products comply with the GreenStar Insulant ODP Emissions credit requirement, avoiding the use of ozone depleting substances in both manufacture and composition.

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Note: *Fletcher Insulation* (Vic) Pty. Ltd. reserves the right to change product specifications without prior notification. Information in this publication and otherwise supplied to users as to the subject product is based on our general experience and is given in good faith, but because of the many particular factors which are outside our knowledge and control and affect the use of products, no warranty is given or is to be implied with respect to either such information or the product itself, in particular the suitability of the product for any particular purpose. The purchaser should independently determine the suitability of the product for the intended application.

*Fletcher Insulation* (Vic) Pty. Ltd. trading as *Fletcher Insulation* ABN 15 083 169 402

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TECHNICAL DATA SHEET