

R-BLANKET™

General Purpose Building Blanket

PRODUCT DESCRIPTION AND TYPICAL APPLICATIONS

Insulation Solutions™ *R-Blanket* is a lightweight, flexible and resilient Glass Wool material, providing predictable thermal insulation performance with the added benefit of being an effective sound absorption material.

Insulation Solutions R-Blanket is available in three nominal thicknesses, 50mm, 75mm, 100mm, plus three R-values, R1.5, 2.0 and 2.5, 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 *Insulation Solutions Permastop™* Data Sheet).

R-Blanket provides excellent thermal and acoustic insulation when installed under metal deck roofs, in metal clad walls and under

concrete slabs such as found in multi-storey buildings. Perforated facings, eg. *Sisalation 450* perforated foil can also be laminated to *R-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 of *R-Blanket* will also provide energy cost savings and increased personal comfort for building occupants.

PHYSICAL CHARACTERISTICS

Thermal Resistance (m ² K/W)	Nominal Thickness (mm)	Nominal Mass (Kg/m ²)	Dimensions (mm)	Area per pack (m ²)
1.3	55	0.6	15000 x 1200	18
1.3	55	0.6	20000 x 1200	24
1.5*	65	0.8	15000 x 1200	18
1.8	75	0.9	15000 x 1200	18
2.0*	85	1.2	15000 x 1200	18
2.3	100	1.4	10000 x 1200	12
2.5*	110	1.5	10000 x 1200	12

*Note: these products are not stocked in all locations. Contact your nearest Sales Office for details.

EARLY FIRE HAZARD RATING

When tested in accordance with AS1530 Part 3 "Early Fire Hazard Properties of Materials", *Insulation Solutions R-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

CORROSION RESISTANCE

When tested in accordance with British Standard 3958 *Insulation Solutions* Glass Wool products are slightly alkaline ph9 (neutral is ph7). They should not promote or accelerate the corrosion of steel or

galvanised steel studs provided they are protected from external contamination.

MAXIMUM SERVICE TEMPERATURE

Insulation Solutions R-Blanket has a maximum service temperature of 340°C. However, where a facing is applied to the insulation, the

maximum temperature of the outside surface should not be maintained below 70°C.

SPECIFICATION NOTES

State the following:

- Product name - *Insulation Solutions R-Blanket*
- R-value (or thickness) required - R1.5, R2.0 or R2.5
- Area involved

- 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 *Insulation Solutions R-Blanket* in a dry state.
- Where cutting is required use a strong 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.
- Material safety data sheets are available from *Insulation Solutions* Sales Offices.

BIO-SOLUBILITY

The fibre used in this product is FBS-1 Bio-Soluble Glass Wool™ Insulation. This means that it dissolves in bodily fluids and is quickly cleared from the lungs. It complies with the test of short term

biopersistence in Note Q of [NOHSC: 10005 (1999)]. *Glass Wool* is classified as safe to use.



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.

Insulation Solutions is committed to providing environmentally sustainable products and utilises up to 70% recycled waste glass in the production of *Glass Wool* Insulation.