



# POLYESTER SOLUTIONS

MANUFACTURERS OF  
• INSULATION • BONDED WADDING  
• FILTER MEDIA • NEEDED FELT

## POLYESTER SOLUTIONS POLYBATTS INSULATION

### Product Description

Polyester Solutions PolyBatts are specially formulated lightweight products manufactured from a blend of polyester fibres. Polyester Solutions Thermal Batts and Rolls contain a high percentage of recycled polyester fibres that are thermally bonded and manufactured to comply with AS/NZ 4859.1. Polyester Solutions Polybatts and Rolls are non-toxic and user-friendly insulation, requiring no specific protective clothing and will not corrode or deteriorate over time. The products are generally white in colour.

### Applications

Polyester Solutions Polybatts have been designed to provide a safe and efficient form of thermal and acoustic insulation for the Australian building market. Polyester Solutions Polybatts are ideal for use in walls, ceilings and under floors (and correctly installed will improve energy efficiency and reduce greenhouse gas emissions.

Polyester Solutions Polybatts Insulation will support and assist in meeting the following provisions of the NCC/BCA:  
NCC/BCA Volume One - Class 2-9 Buildings Section J - Energy Efficiency: Performance requirement JP1 BCA Volume One - Class 2-3 and 9c Buildings Section F - Health and Amenity: Sound Transmission and Insulation.

Performance requirement FP5.1, FP5.2, FP5.4 and FP 5.5.

NCC/BCA Volume Two - Class 1 and Class 10 Buildings

Part 2.6 -Energy Efficiency: Performance requirement P2.6.1 Part 3.8.6 - Health and Amenity, Sound Insulation:

Performance requirements P2.4.6

### Standard Sizes and Packaging

| R-Value (m2K/W) | Size (mm)     | Nominal Max Thickness mm | Batts per pack | Area (M2) per pack |
|-----------------|---------------|--------------------------|----------------|--------------------|
| R1.5            | 1170 x 580    | 90                       | 16             | 10.85              |
| R1.5            | 1170 x 430    | 90                       | 16             | 8.04               |
| R2.0            | 1170 x 580    | 90                       | 12             | 8.14               |
| R2.0            | 1170 x 430    | 90                       | 12             | 6.03               |
| R2.5            | 1170 x 580    | 165                      | 8              | 5.42               |
| R2.5            | 1170 x 430    | 165                      | 8              | 4.02               |
| R3.0            | 1170 x 580    | 185                      | 8              | 5.42               |
| R3.0            | 1170 x 430    | 185                      | 8              | 4.02               |
| R3.5            | 1170 x 580    | 200                      | 6              | 4.07               |
| R3.5            | 1170 x 430    | 200                      | 6              | 3.01               |
| R4.0            | 1170 x 580    | 240                      | 4              | 2.72               |
| R4.0            | 1170 x 430    | 240                      | 4              | 2.01               |
| R4.5            | Made to order |                          |                |                    |



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### Fire Resistance

When tested in accordance with AS1530.3 (1999), "Early Fire Hazard Properties of Materials", PSB exhibit the following characteristics:

|                       |       |
|-----------------------|-------|
| Ignitability Index    | 0     |
| Spread of Flame Index | 0     |
| Heat Evolved          | 0     |
| Smoke Developed Index | 0 - 3 |

### Moisture Resistance

Exposure to an atmosphere of 50°C and 95% relative humidity for 4 days results in less than 0.2% by volume moisture absorption.

### Maximum Service Temperature

The maximum temperature to which Polyester Solutions PolyBatts should be exposed in service is 150°C.

### Environmental and Health Benefits

|  |            |
|--|------------|
| Recycled Fibre Content                     | 80%        |
| minimum Volatile Organic Compounds (VOC's) | No harmful |
| VOC's Formaldehyde Content                 | Nil        |
| Phenol Content                             | Nil        |
| Ammonia Content                            | Nil        |
| Ozone Depleting Potential (ODP)            | Nil        |
| Chloride Content                           | Nil        |
| Total Recyclable Content                   | 100%       |

### How to Specify

The insulation material shall be Polyester Solutions Polybatts, R1.5, R2.0, R2.5, R3.0, R3, R4.0 or R4.5 as manufactured by Polyester Solutions

### General Installation Advice

Polyester Solutions Polybatts and Rolls are safe and easy to install in the walls, ceilings and under floors. Batts are supplied in two widths to suit standard housing construction, this being 430mm widths for 450mm centres and 580mm for 600mm centres. As the batts are safe and soft, Polyester Solutions Polybatts are easily torn or cut with a pair of industrial scissors or shears. Off cuts can be used to fill corners crevices and gaps, eliminating any waste. For ceilings, Polyester Solutions Polybatts are installed by laying them on top of the ceiling between ceiling joists. A 50mm gap should be allowed around incandescent lamps and exhaust fans, 100mm around flue pipes and 200mm around recessed halogen downlights (refer to AS3000..2007). For walls, the Batts are placed between the wall studs before the plasterboard is put in place. If required, lightly staple or tape insulation into position. For under floor applications Polyester Solutions Under-Floor Insulation is stapled or strung in place between the floor joists. No special clothing, gloves or masks are required for installation. Allow up to one month for products subjected to compression packing to recover to their nominal thickness.

### Testing

All testing was conducted in a laboratory situation. On site results may vary due to site conditions and quality of installation. Thermal testing is done in accordance with AS/NZS 4859.1((Materials for the thermal insulation of buildings - General criteria and technical provisions)). As these products are constantly being researched and developed, we reserve the right to update these specifications without notice.