

## PerformINS HD Plus Roofing Blanket Thermal Insulation With Condensation Control



**PERFORMINS** Blanket combines the thermal efficiency of spun glass fibre with a laminate of reflective foil which not only further enhances the thermal efficiency of the system but also serves to act as a dust and moisture barrier.

**DESCRIPTION** PerformINS Blanket is intended for both thermal and acoustic applications. It is made from highly resilient, inorganic glass fibres manufactured by spinning molten glass, containing up to 65% recycled content and bonded together using a thermosetting resin.

**SPECIFICATION COMPLIANCE** AS/NZS 4859.1: 2019 Materials used in the Thermal Insulation of Buildings and complies with the Building Code of Australia (BCA) requirements.

- Complies with AS/NZS 4859.1 as referenced in NCC 2019, Volume 1 Clause J1.2(a) and NCC 2019, Volume 2 Clause 3.12.1.1.
- When tested to AS/NZS 1530.3 this product does not exceed the 'Spread of Flame' or 'Smoke Developed' indices as required by NCC 2019 Volume 1, Specification C1.10 Clause 7 for insulation materials.
- Complies with the requirements of AS3959 Bushfire Attack Level Low-40 under metal sheet roofs. The foil facing has a flammability index 5 (AS1530.3)

**EARLY FIRE HAZARD PROPERTIES OF MATERIALS** PerformINS Blanket achieves the following characteristics when tested in accordance with AS1530 Part 3

|                           |          |
|---------------------------|----------|
| <b>IGNITABILITY INDEX</b> | <b>0</b> |
|---------------------------|----------|

|                              |          |
|------------------------------|----------|
| <b>SPREAD OF FLAME INDEX</b> | <b>0</b> |
|------------------------------|----------|

|                           |          |
|---------------------------|----------|
| <b>HEAT EVOLVED INDEX</b> | <b>0</b> |
|---------------------------|----------|

|                              |          |
|------------------------------|----------|
| <b>SMOKE DEVELOPED INDEX</b> | <b>1</b> |
|------------------------------|----------|

**FIRE ASSESSMENT CLASSIFICATION - GROUP 1 - TESTED IN ACCORDANCE  
WITH AS/ISO 9705 & AS5637.1**

**BIO-SOLUBILITY** PerformINS Blanket rolls are manufactured from bio-soluble fibres. Bio-soluble fibres have been extensively researched and shown to pose no long term health risk.

**FIRE PERFORMANCE** Bushfire Attack Level

PerformINS Blanket is suitable for BAL 0-40 as outlined in AS 3959 for metal roofs. The glasswool component of PerformINS Blanket is classified as non-combustible in accordance with AS1530.1 and is suited for sealing ember entry points at ridges, valleys and Fascias to meet NCC requirements for metal clad roofs in bushfire areas. The reflective foil facing component satisfies the NCC flammability index requirement of  $\leq 5$ . In areas where BAL-FZ is a requirement higher density glasswool or mineral wool is required and available upon request.

**GREEN STAR COMPLIANT** PerformINS Blanket does not incorporate the use of Ozone Depleting Potential (ODP) substances in the manufacture or composition of it FBS-1 Glass Wool Bio-Soluble Insulation and the reflective foil products. The use of the PerformINS Blanket products guarantees the use of ODP free 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.

**MOISTURE ABSORPTION** In the event of PerformINS Blanket becoming wet, it should be dried prior to installation to obtain maximum performance and prevent damage to other building elements.

PerformINS Blanket absorbs less than 0.2 % moisture by volume when exposed to environmental conditions of 50°C and 95% relative humidity for four days.

**ALKALINITY** When tested in accordance with British Standard 3958, the glasswool element of PerformINS Blanket received a rating of pH9 (neutral is pH7).

**MAXIMUM SERVICE TEMPERATURE** PerformINS Blanket is manufactured for use at temperatures that are normally experienced in building systems. PerformINS Blanket maximum and minimum service temperatures range from sub-zero to a maximum of 340°C. The surface temperature of PerformINS Blanket faced with reflective foil should not exceed 70°C.

**SPECIFICATION NOTES**

Product name – PerformINS Blanket

Facing required – e.g. Heavy Duty Reflective / White / Acoustic Cloth

Material R-value required

Note: The total R-value or thermal performance of building systems with reflective foils depends on the installation method used and the direction of heat flow.

**APPLICATION** Designed for application under metal, fibre cement, and concrete roof cladding PerformINS Blanket eliminates the problems associated with condensation build up on the underside of the roof cladding. The reflective foil face faces down toward the air space under the roof and prevents airborne moisture from reaching the surface of the roof cladding. PerformINS Blanket also performs as an acoustic insulative barrier. It reduces noise from outside the home, such as rain and from within the home by absorbing reverberant noise. PerformINS Blanket's bulk insulation blanket is made from non-combustible fibres and meets the BAL requirement for metal clad roofs in bushfire areas.

**FACING OPTIONS** The Duty Rating, Colour and Material Finish used to face PerformINS Blanket can be varied to suit your application. Details upon request. Excellent thermal & acoustic insulation.

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### FACED

| THICKNESS (mm) | R-VLAUE | DIMENSIONS (mm) | ROLLS/PACK | M2/PACK |
|----------------|---------|-----------------|------------|---------|
| 55mm           | 1.3     | 1200 x 15000    | 1          | 18      |
| 75mm           | 1.8     | 1200 x 15000    |            | 18      |
| 100mm          | 2.5     | 1200 x 10000    | 1          | 12      |
| 130mm          | 3.0     | 1200 x 10000    | 1          | 12      |
| 130mm          | 3.2     | 1200 x 10000    | 1          | 12      |
| 130mm          | 3.6     | 1200 x 6500     | 1          | 7.8     |

### PLAIN

| THICKNESS (mm) | R-VLAUE | DIMENSIONS (mm) | ROLLS/PACK | M2/PACK |
|----------------|---------|-----------------|------------|---------|
| 55mm           | 1.3     | 1200 x 3000     | 1          | 36      |
| 75mm           | 1.8     | 1200 x 25000    | 1          | 30      |
| 100mm          | 2.5     | 1200 x 15000    | 1          | 18      |
| 130mm          | 3.0     | 1200 x 10000    | 1          | 12      |
| 130mm          | 3.2     | 1200 x 10000    | 1          | 12      |
| 130mm          | 3.6     | 1200 x 6500     | 1          | 7.8     |