

# ANTICON™ FC GLASSWOOL BLANKET

## PRODUCT DESCRIPTION

Bradford Anticon FC roofing blankets are certified and approved by FM Global Class 1 Fire Rating, FM Approvals Standard 4880. Bradford Anticon FC is a premium range specifically developed and tested to meet specific fire performance to FM Approved standards beyond minimum Deemed-to-Satisfy requirements.

Bradford Anticon Blanket consists of a bulk insulation blanket adhered to Light duty (LD) Reflective Foil Laminate (RFL) facing. The bulk insulation blanket is manufactured by spinning molten glass, containing up to 65% recycled content, into fine wool like fibres. These are bonded together using plant-based binders. The RFL facing typically extends 150mm beyond one longitudinal edge of the blanket to provide an overlap for sealing the blankets.

## APPLICATIONS

Anticon FC Blanket is designed to provide efficient acoustic & thermal insulation as well as condensation control under metal deck, fibre cement and concrete roofs in residential or commercial applications. The name Anticon reflects the anti-condensation function of this product. Anticon FC is also designed to reduce rain and aircraft noise and can substantially reduce reverberant noise within the building. Typical applications include;

- Residential & commercial metal clad roofs
- Under concrete slabs/soffits in roofs, car parks, etc
- Commercial and industrial fibre cement roofs eg. offices, shopping centres, warehouses
- **Bushfire Attack Level (BAL)** – The insulation blanket is ideally suited to sealing ember entry points at ridges, valleys and fascia's whilst the available facings comply with the BCA flammability index requirement of  $\leq 5$

## SPECIFICATION TEXT

To ensure that Bradford Anticon FC is specified correctly, please include the following details on all drawings and specification information:

The insulation material shall be Bradford Anticon FC FBS-1 Glasswool blanket of thickness \_\_\_mm (*specify thickness*), that is FM Approved and thermally rated to AS/NZS4859.1, faced with Light Duty facing.

## HEALTH AND SAFETY

This product is manufactured to the latest Fibre Bio- Soluble (FBS-1) Glasswool formulation and is not classified as hazardous according to the criteria of the ASCC (formally NOHSC) guidelines. For further information refer to the Safe Use Information Sheet (SUIS, formally known as MSDS) on the Bradford website.

CSR Bradford is the only approved insulation partner of the National Asthma Council Australia's Sensitive Choice® program. This program recognises companies who develop products like Anticon and Gold Ceiling Batts, that may be better choices for people with asthma or allergies.



## PRODUCT DETAILS

| PRODUCT                    | MATERIAL R-VALUE <sup>1</sup> | THICKNESS (mm) | WIDTH (mm) | LENGTH (m) <sup>2</sup> | FACING          |
|----------------------------|-------------------------------|----------------|------------|-------------------------|-----------------|
| Anticon 60                 | R1.3                          | 60             | 1200       | 15                      | Light Duty Foil |
| Anticon 70                 | R1.4                          | 70             | 1200       | 15                      | Light Duty Foil |
| Anticon 80                 | R1.8                          | 80             | 1200       | 15                      | Light Duty Foil |
| Anticon 100                | R2.3                          | 100            | 1200       | 10                      | Light Duty Foil |
| Anticon 100HP <sup>3</sup> | R2.5                          | 100            | 1200       | 10                      | Light Duty Foil |
| Anticon 110                | R2.5                          | 110            | 1200       | 10                      | Light Duty Foil |
| Anticon 130                | R3.0                          | 130            | 1200       | 10                      | Light Duty Foil |
| Anticon 140                | R3.3                          | 140            | 1200       | 7.5                     | Light Duty Foil |
| Anticon 145                | R3.6                          | 145            | 1200       | 7.5                     | Light Duty Foil |

## PRODUCT SPECIFICATIONS

|                        |   |  |
|------------------------|---|--|
| FM GLOBAL APPROVAL     | Standard 4880 for Class 1 Fire Rating of Insulated Wall or Wall and Roof/Ceiling Panels, Interior Finish Materials or Coatings, and Exterior Wall Systems | Complies   |
| MAXIMUM SERVICE TEMP   |   | Glasswool: 350°C; Reflective foil 70°C   |
| THERMAL COMPLIANCE     | AS/NZ4859.1   | Complies   |
| MOISTURE ABSORPTION    | When left in a controlled atmosphere of 50°C and 95% relative humidity for four days  | Less than 0.2% by volume   |
| FIRE HAZARD PROPERTIES | When tested in accordance with AS1530.3:1999  | Ignitability: 0      Spread of Flame: 0<br>Heat Evolved: 0      Smoke Developed: 1 |
| CORROSION RESISTANCE   | When tested in accordance with BS 3958.5:1969   | pH 7.5-8.0<br>Incapable to corrode steel   |
| FLAMMABILITY INDEX     | AS 1530.2   | All available facings have a flammability index rating of ≤5 (low)                 |
| SUPPORT SPACING        |   | Light Duty (LD) with support mesh suitable for ≤ 600                               |

## PRODUCT PERFORMANCE

### Sound Absorption<sup>4</sup>

| PRODUCT                   | THICKNESS<br>(mm) | FREQUENCY (Hz) |      |      |      |      |      |      |
|---------------------------|-------------------|----------------|------|------|------|------|------|------|
|                           |                   | 125            | 250  | 500  | 1000 | 2000 | 4000 | NRC  |
| Anticon 130 Thermofoil LD | 130               | 0.6            | 1.00 | 1.00 | 0.70 | 0.40 | 0.25 | 0.85 |

### Estimated Acoustic Performance<sup>5</sup>

Rainfall sound power level predictions (LW dB) – lower is quieter

| ROOF PROFILE | NO INSULATION (dB) | ANTICON 60 (dB) | ANTICON 100 HP (dB) | ANTICON 145 (dB) |
|--------------|--------------------|-----------------|---------------------|------------------|
| Trimdek®     | 69                 | 63              | 59                  | 54               |
| Klip-Lok®    | 67                 | 61              | 57                  | 52               |
| Timclad®     | 73                 | 68w             | 64                  | 58               |
| Custom Orb®  | 75                 | 70              | 65                  | 60               |
| Six Rib      | 70                 | 64              | 60                  | 55               |

Notes: 1. Material R-value refers to the base Glasswool blanket only, as tested in accordance with AS/NZS4589.1. The overall system or total R-value is dependent on the type of construction. 2. Custom cut-to-length (CTL) are available by request to reduce waste and installation time. 3. HP- Bradford Anticon High Performance Roofing Blanket is a higher density 14kg/m<sup>3</sup> Glasswool blanket is specified in applications similar to Bradford Anticon roofing blanket, but where roof space is limited and a thinner, higher performing insulation blanket is needed to achieve the required R value. 4. Tested in a reverberation chamber in accordance with AS ISO354-2006 / NRC calculated in accordance with ASTM C423-90A. 5. Calculations are based upon a roof area of 10m<sup>2</sup> with roof sheet of 0.48mm. No ceiling system is present. The insulation is allowed to recover to its design thickness – use appropriate spacer height to suit insulation thickness. The insulation is sandwiched directly between the underside of the metal roof sheet and the buildings roof structure. Data is based upon 'intense' rainfall – additional information is available for other rainfall categories. The estimates above are intended to be equivalent to ISO 140-3: 1995.