

Anticon® TUFF Roofing Blanket

Refer to product table below for applicable product codes covered by this document

Issue **A**

Product Type & Application

Anticon® TUFF is a Glasswool bulk insulation blanket faced with either a medium or heavy duty polyweave-reinforced reflective foil laminate adhered to one side. The product is only intended for use as metal roof insulation in Class 1 residential applications.

Compliance with the NCC

For use in Australia, when correctly specified and installed, this product:

- **Thermal** - Complies with NCC 2019 Volume 2 Section 3.12.1.1(a), and all state-prescribed variations. The product meets the requirements of the NCC through compliance with AS/NZS 4859.1.
- **Weatherproofing and Condensation Control** - Facing materials only meet the requirements of the NCC 2019 Volume 2 part 3.5.2.4(b), 3.8.7.2(a)(i), and all State-prescribed variations, through compliance with AS/NZS 4200.1.
- **BAL** - The facing materials only meet the requirements of sarking for construction of buildings in bushfire-prone regions BAL 12.5-FZ, as per AS 3959, section 3.10. The facing material has a Flammability Index ≤ 5 .

Specific Design or Installation Instructions

- Isolate power before installation.
- **WARNING:** This product contains aluminium foil which conducts electricity. To avoid electrocution, care should be taken to ensure that this product or conductive fasteners used to secure this product, do not come into contact or close proximity with electrical wiring during installation or use.
- In a roof installation the reflective aluminium side should face inward toward the internal roof cavity.
- The product should be installed with a 150mm foil facing overlap on the adjacent blanket.
- To provide a water or vapour control layer the foil face of the product should be sealed in accordance with AS 4200.2.
- To maintain the water barrier properties of the facing material it should not be punctured, creased, crushed, sharply folded or dragged over the building structure during installation.
- **Condensation Risk Consideration:** The facing material is classified as a vapour barrier, and when positioned on the cold side of the construction it may increase the risk of condensation entrapment within the structure. As there are many factors which can influence condensation risk it is highly recommended that designers undertake a hygrothermal analysis to further reduce condensation risk.

- **Caution:** Electrical cables and equipment partially or completely surrounded with bulk thermal insulation may overheat and fail – this applies to both new and retro-fit applications. Refer to legislation and referenced standards, and the CSR Bradford **Guide to Insulation Around Electrical Services and Fittings PTS Guide 1**.
- Insulation should be installed so that forms a continuous layer and abuts or overlaps adjoining insulation other than at supporting members such as columns, studs, noggings, joists, furring channels and the like where the insulation must butt against the member.
- Stated thermal performance is based on the insulation blanket only - reflective R-values are construction-dependent upon the adjacent airgap and must be determined in accordance with AS/NZS4859.2.
- Not recommended for applications exposed to UV light or weather during or after installation.

For general installation guidance refer to the product installation guide at Bradfordinsulation.com.au

Supplementary information - Additional installation guidance for this product can be found in AS 3999.

Limitations of Use

- This material is not classified as non-combustible in accordance with AS1530.1.
- This product is not suitable for use as an exposed wall or ceiling lining in applications which require a Group Number in accordance with AS ISO 9705 and AS 5637.1 (NCC 2019 Volume 1, Specification C1.10 Clause 4).
- To provide a vapour control layer, the foil face of this product should be sealed in accordance with AS4200.2.
- To provide a water control layer, the foil face of this product should be sealed in accordance with AS4200.2.
- Maximum service temperature is 300°C for Glasswool, 70°C for facing materials.
- Not suitable for use under tiled roofs.

Conditions of Storage, Use & Maintenance

- Store in the original packaging in a cool, dry area, away from foodstuffs. Ensure packages are adequately labelled, protected from physical damage, and sealed when not in use. Avoid packaging being stored under UV light (direct sunlight) for long periods.
- The foil facing product should not come into contact with wet concrete, or alkaline materials.
- Do not pressure clean or use mineral based cleaners on the facing product.

Refer to the product SUIS/MSDS at Bradfordinsulation.com.au for more information.

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Evidence of Suitability

- Testing to AS/NZS 4859.1 across the following reports apply to the unfaced blanket -
 - CSR Lab Report R-20024.
 - CSR Lab Report R-20025.
- Testing to AS/NZS 4200.1 across the following reports apply to the **Medium Duty** facing product -
 - AWTA Report 16-005479 – *Resistance to Dry Delamination.*
 - AWTA Report 16-005479 – *Resistance to Wet Delamination.*
 - AWTA Report 16-005479 – *Moisture Shrinkage.*
 - Orora Report 24133 – *Folding Endurance.*
 - AWTA NATA Report 16-005479 – *Tensile Strength.*
 - AWTA NATA Report 16-005479 – *Edge Tearing.*
 - R&D Services Report RD16659 – *Emittance Classification.*
 - CSIRO Report 7790.3 – *Vapour Control Classification.*
 - AWTA Report 16-005479 – *Water Control Classification.*
 - AWTA NATA Report 21-000304 – *Flammability Classification.*
 - CSR Lab Report R-20078 – *Thickness.*
- Testing to AS/NZS 4200.1 across the following reports apply to the **Heavy Duty** facing product -
 - AWTA Report 20-004835 – *Resistance to Dry Delamination.*
 - AWTA Report 20-004835 – *Resistance to Wet Delamination.*
 - AWTA Report 20-004834 – *Moisture Shrinkage.*
 - Opal Report 26861 – *Folding Endurance.*
 - AWTA NATA Report 20-004835 – *Tensile Strength.*
 - AWTA NATA Report 20-004835 – *Edge Tearing.*
 - AWTA Report 20-004836 – *Emittance Classification.*
 - AWTA NATA Report 20-004835 – *Vapour Control Classification.*
 - AWTA Report 20-004835 – *Water Control Classification.*
 - CSR Lab NATA Report NR-20204 – *Flammability Classification.*
 - CSR Lab Report R-20078 – *Thickness.*

Applicable Product Codes

BASE BLANKET R-VALUE (m ² K/W)	THICKNESS (mm)	NOMINAL LENGTH (m)	NOMINAL WIDTH (mm)	NOMINAL COVERAGE (m ² per Roll)	PRODUCT	PRODUCT CODE
MEDIUM DUTY FACING						
R1.3	60	15	1200	18	Anticon Tuff 60 MD	118077
R1.8	80	15	1200	18	Anticon Tuff 80 MD	118309
HEAVY DUTY FACING						
R1.3	60	15	1200	18	Anticon Tuff 60 HD	115773
R1.3	60	20	1200	24	Anticon Tuff 60 HD	115995
R1.8	80	15	1200	18	Anticon Tuff 80 HD	121602

R-values apply to the unfaced blanket installed at nominal thickness.

Additional Product Data

Maximum Service Temperature	300°C for Glasswool 70°C for facing materials
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Other Accreditation



FBS-1 Glasswool - The fibre component of these products is listed by Safe Work Australia as Man-made Vitreous Fibre (Glasswool) of low bio persistence as specified under Note Q in the Australian Hazardous Substances Information System and in the Australian Approved Criteria documentation. In accordance with EU ATP 31 (2009) these fibres are not classified as an irritant, or as carcinogenic.
Refer to the product SUIS/MSDS at Bradfordinsulation.com.au for more information.



National Asthma Council Sensitive Choice