

Anticon® & Anticon® HP Roofing Blanket

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

Issue **A**

Product Type & Application

Anticon® and Anticon® High Performance (HP) are Glasswool blankets with a light (LD), medium (MD) or heavy (HD) duty reinforced paper-based reflective foil laminate adhered to one side. They are primarily intended for use as metal roof insulation.

Compliance with the NCC

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

- **Thermal** - Complies with NCC 2019 Volume 1 Section J1.2, 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.
- **Fire Hazard Properties** - Has a Group Number of 1 and $SMOGR_{RC} \leq 100 \text{ m}^2/\text{s}^2 \times 1000$ for all thicknesses, in accordance with AS ISO 9705 and AS 5637.1. It may be used as an exposed wall or ceiling lining where specified by the NCC 2019 Volume 1, Specification C1.10 Clause 4.
- **Fire Hazard Properties - Medium and Heavy Duty faced** products meet the requirements of the NCC 2019 Volume 1, Specification C1.10 Clause 7 for insulation materials. When tested to AS/NZS 1530.3 this product does not exceed the 'Spread of Flame' or 'Smoke Developed' indices of Specification C1.10 Clause 7.
- **Weatherproofing and Condensation Control** - Facing material only meets the requirements of the NCC 2019 Volume 1 parts F1.6, F6.2(a)(i), Volume 2 parts 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 material only meets 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 .

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.
 - CSR Lab Report R-20026.
 - CSR Lab Report R-20027.
 - CSR Lab Report R-20028.
 - CSR Lab Report R-20029.
 - CSR Lab Report R-20030.
 - CSR Lab Report R-20031.
 - CSR Lab Report R-20032.
- Testing and Professional Assessment, AS ISO 9705 and AS 5637.1 -
 - CSIRO Assessment FCO-3029.

- Testing and Professional Assessment, AS/NZS 1530.3 applies to the **Medium and Heavy Duty faced blanket only** -
 - CSIRO Assessment FCO-2805.
- Testing to AS/NZS 4200.1 across the following reports apply to the **Light Duty** facing product -
 - AWTA Report 7-598683-MN – Resistance to Dry Delamination.
 - AWTA Report 7-598683-MN – Resistance to Wet Delamination.
 - AWTA Report 7-598683-MN – Moisture Shrinkage.
 - Orora Report 24133 – Folding Endurance.
 - AWTA Report 7-598683-MN – Tensile Strength.
 - AWTA Report 7-598683-MN – Edge Tearing.
 - AWTA Report 7-598762-MN – Emittance Classification.
 - R&D Services Report RD18258-R2 – Vapour Control Classification.
 - AWTA Report 7-543644-NV – Water Control Classification.
 - CSR Lab NATA Report NR-17218 – Flammability Classification.
 - CSR Lab Report R-20078 – Thickness
- Testing to AS/NZS 4200.1 across the following reports apply to the **Medium Duty** facing product -
 - CSIRO Report 14-0240a – Resistance to Dry Delamination.
 - CSIRO Report 14-0240a – Resistance to Wet Delamination.
 - CSIRO Report 14-0240a – Moisture Shrinkage.
 - Orora Report 24133 – Folding Endurance.
 - CSIRO Report 14-0240a – Tensile Strength.
 - AWTA NATA Report 18-000297 – Edge Tearing.
 - R&D Services Report RD16659 – Emittance Classification.
 - CSIRO Report 6500.3B – Vapour Control Classification.
 - AWTA Report 7-543035-NV – Water Control Classification.
 - CSR Lab NATA Report NR-17210 – 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 16-005482 – Resistance to Dry Delamination.
 - AWTA Report 16-005482 – Resistance to Wet Delamination.
 - AWTA Report 16-005482 – Moisture Shrinkage.
 - Orora Report 24133 – Folding Endurance.
 - AWTA NATA Report 16-005482 – Tensile Strength.
 - AWTA NATA Report 16-005482 – Edge Tearing.
 - R&D Services Report RD16659 – Emittance Classification.
 - R&D Services Report RD19028-R3 – Vapour Control Classification.
 - AWTA Report 7-542982-NV – Water Control Classification.
 - CSR Lab NATA Report NR-17213 – Flammability Classification.
 - CSR Lab Report R-20078 - Thickness

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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 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. In new build construction with electrical wiring in accordance with AS/NZS 3000, 2018 version or later, wiring may be partially or completely surrounded for up to 400mm. If more than 400mm is surrounded, or for wiring pre AS/NZS 3000, 2018 version, seek advice from a licenced electrician. Refer to legislation and referenced standards for full details.
- Insulation should form a continuous layer, except where it butts against structural members, or for mandatory gaps around services and fittings. It should be installed at nominal thickness, except where it crosses structures, services and fittings.
- 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 to be exposed to UV or weather 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.
- 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 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. Store in the original packaging in a cool, dry area, removed from UV light (direct sunlight).
- The 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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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
LIGHT DUTY FACING						
R1.3	60	15	1200	18	Anticon 60	15417
R1.3	60	15	1400	21	Anticon 60	74479
R1.3	60	20	1200	24	Anticon 60	15574
R1.4	70	15	1200	18	Anticon 70	99004
R1.4	70	20	1200	24	Anticon 70	99005
R1.8	80	15	1200	18	Anticon 80	16072
R2.0	90	15	1200	18	Anticon 90	128181
R2.3	100	10	1200	12	Anticon 100	15625
R2.5	110	10	1200	12	Anticon 110	84860
R2.5 HP	100	10	1200	12	Anticon 100	85383
R3.0	130	10	1200	12	Anticon 130	83271
R3.3	140	7.5	1200	9	Anticon 140	102251
R3.6	145	7.5	1200	9	Anticon 145	102252
R3.6 HP	130	5	1200	6	Anticon 130	194622
MEDIUM DUTY FACING						
R1.3	60	15	1200	18	Anticon 60	15630
R1.8	80	15	1200	18	Anticon 80	15696
R2.3	100	10	1200	12	Anticon 100	15629
R2.5	110	10	1200	12	Anticon 110	84859
R2.5 HP	100	10	1200	12	Anticon 100	88604
R3.0	130	10	1200	12	Anticon 130	81861
R3.3	140	7.5	1200	9	Anticon 140	102312
R3.6	145	7.5	1200	9	Anticon 145	102311
HEAVY DUTY FACING						
R1.3	60	15	1200	18	Anticon 60	16013
R1.8	80	10	1200	12	Anticon 80	16106
R2.3	100	10	1200	12	Anticon 100	15359
R2.5	110	10	1200	12	Anticon 110	84858
R2.5 HP	100	10	1200	12	Anticon 100	95821
R3.0	130	10	1200	12	Anticon 130	84891

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

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Additional Product Data

Maximum Service Temperature		300°C for the Glasswool 70°C for facing materials
Fire Hazard Properties	For Medium and Heavy Duty faced blankets when tested in accordance to AS/NZS 1530.3	• Ignitability: 0 • Spread of flame: 0 • Heat Evolved: 0 • Smoke Developed: 1

Acoustic Performance

Sound absorption results tested in accordance with AS/ISO 354-2006 and NRC rated using ASTM C423-90A-

Product	Thickness (mm)	Practical Sound Absorption Coefficient (α_p)	Frequency (Hz)						NRC
			125	250	500	1000	2000	4000	
Anticon 130 with LD Facing	130		0.6	1.0	1.0	0.7	0.4	0.25	0.85

The practical sound absorption coefficient is determined as per AS/ISO 11654-1997.

The weighted sound absorption coefficient as per AS/ISO 11654-1997 is $\alpha_w = 0.4(LM)$.

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