

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

Q Issue

Product Type & Application

Anticon[®] and Anticon[®] High Performance (HP) are Glasswool blankets faced with a light (729 LD), medium (730 MD) or heavy (750 HD) duty reinforced, paper-based, reflective foil laminate on one side. These products are primarily intended for use as metal roof insulation in residential and commercial applications.

Compliance with the NCC

For use in Australia, when correctly specified and installed, this product provides the following compliance:

NCC 2022

- Thermal Complies with NCC 2022 Volume 1 J4D3(1) and ABCB Housing Provisions Standard 2022 13.2.2(1). This product meets the requirements of the NCC through compliance with AS/NZS 4859.1.
- Thermal Break Meets the requirements of NCC 2022 Volume 1 J3D5(1) and ABCB Housing Provisions Standard 2022 13.2.3(7). When crushed between metal roof sheet and framing members this product provides an R-value of R0.2.
- Fire Hazard Properties Achieves a Group Number of 1 and SMOGRA_{RC} ≤100 m2/s2 x 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 2022 Volume 1 S7C4.
- Fire Hazard Properties Meets the requirements of the NCC 2022 Volume 1, S7C7 for insulation materials. When assessed to AS/NZS 1530.3 this product does not exceed the 'Spread of Flame' or 'Smoke Developed' indices of Table S7C7.
- Weatherproofing and Condensation Control Facing material only meets the requirements of the NCC 2022 Volume 1 F3D3 and all State-prescribed variations, through compliance with AS/NZS 4200.1.
- BAL All products meet the requirements for sheet roof construction of buildings in bushfire-prone regions BAL 12.5-40, as per AS 3959, sections 5 to 8.
- BAL Anticon FZ 80 with Light Duty facing meets the requirements for sheet roof construction of buildings in bushfire-prone region BAL-FZ, as per AS 3959, Appendix H3 Clause (c).

NCC 2019

- Thermal Complies with NCC 2019 Volume 1 Amend. 1 Section J1.2(a), NCC 2019 Volume 2 Amend. 1 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.
- Thermal Break Meets the requirements of NCC 2019 Volume 1 Amend. 1 J0.4 and NCC 2019 Volume 2 Amend. 1 13.12.1.2(c). When crushed between metal roof sheet and framing members this product provides an R-value of R0.2.

Compliance with the NCC cont. NCC 2019 cont.

- Fire Hazard Properties Achieves a Group Number of 1 and SMOGRA_{RC} ≤100 m²/s² x 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 Amend. 1, Specification C1.10 Clause 4.
- Fire Hazard Properties Meets the requirements of the NCC 2019 Volume 1 Amend. 1, Specification C1.10 Clause 7 for insulation materials. When assessed 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 Amend. 1 F1.6 and all State-prescribed variations, through compliance with AS/NZS 4200.1.
- BAL All products meet the requirements for sheet roof construction of buildings in bushfire-prone regions BAL 12.5-40, as per AS 3959, sections 5 to 8.
- BAL Anticon FZ 80 with Light Duty facing meets the requirements for sheet roof construction of buildings in bushfire-prone region BAL-FZ, as per AS 3959, Appendix H3 Clause (c).

Product Technical Statements are referenced as suitable documentary evidence to support the use of a product for a Performance Requirement or a Deemed-to-Satisfy Provision of the BCA under Part A5.2(1)(f) (2019) or A5G3(f) (2022).





Evidence of Suitability

- Testing to AS/NZS 4859.1 at 23°C 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.
- CSR Lab Report R-22008.
- CSR NATA Lab Report NR-23104.
- Professional Assessment, AS ISO 9705 and AS 5637.1
 - CSIRO Assessment FCO-3029.
 - BRANZ Assessment FC11516.
- Professional Assessment, AS/NZS 1530.3 -
 - Warringtonfire Assessment FAS200045.
- 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 24-004037- Tensile Strength.
 - AWTA Report 24-004037- Edge Tearing.
 - AWTA Report 7-598762-MN Emittance Classification.
 - R&D Services Report RD231199-R1 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.
 - AWTA NATA Report 23-003034 Tensile Strength.
 - AWTA NATA Report 23-003034 Edge Tearing.
 - R&D Services Report RD16659 Emittance Classification.
 - AWTA NATA Report 24-004043 and 24-004525 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

Evidence of Suitability cont.

- 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 24-003454 Tensile Strength.
 - AWTA NATA Report 24-003454 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

Limitations of Use

- IMPORTANT: Compliance with the evidence of suitability data referenced in this document is only achieved when this product is produced at a CSR approved facility, in accordance with CSR specifications and approved materials.
- IMPORTANT: Do Not Modify This Product: Compliance with the evidence of suitability data referenced in this document is only achieved by the product or configuration listed in this PTS.
- This material is not classified as non-combustible in accordance with AS1530.1 and is not suitable for use where non-combustible material is required.
- This product does not meet the non-combustibility or fusion temperature requirements of AS 1668.1, 2.3.2.
- Group number and SMOGRARC ratings only apply when the installation requirements listed under 'Specific Design or Installation Instructions' are met.
- · Not suitable for use under tiled roofs.
- This product is not designed to withstand exposure to the elements and must be installed dry and remain dry until the roof is completed - accordingly, it is recommended that the exterior cladding and all closure flashings should be installed within the same workday to comply with the product warranty.
- It is recommended to commence installation of this product only if it can be completed prior to rain.
- · If this product is left exposed, it must be protected from getting wet.
- Maximum service temperature is 150°C for unfaced Glasswool, 70°C for faced Glasswool.
- · The foil facing product should not come into contact with wet concrete, or alkaline materials.
- · This product is not suitable for installation in underslab concrete roof applications within a conditioned space where there is a risk of moisture transfer through the unfaced edges.
- This product is not suitable for use within 500m of a saltwater body in an unenclosed, ventilated space.

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For further technical advice call 1300 850 305 or visit csrbradford.com.au

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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.
- 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 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, seek advice from a licenced electrician. Refer to legislation and referenced standards for full details or seek advice from an electrician if in doubt.
- To create an air, water, or vapour barrier install in accordance with the NCC and AS 4200.2.
- Improved water control at vertical joints can be achieved by sealing overlaps, end laps, discontinuities and penetrations by suitable means such as heat and moisture resistant adhesive tape with a minimum 50mm overlap.
- In a roof installation the reflective aluminium side should face inward toward the internal roof cavity.
- Insulation should be installed so that it 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.
- Thermal Break: Where this product is locally crushed between framing members and roof cladding it will provide a R0.2 thermal break as required by the NCC.
- Bulk insulation must be installed so that it maintains its position and thickness, other than where it crosses water pipes, electrical cabling or the like, or roof battens in Class 1 and 10 buildings, cladding and supporting members in Class 2-9 buildings, or where accounted for elsewhere.
- Stated thermal performance is based on bulk insulation only. The effects of thermal bridging and any added reflective R-value contributions are construction dependent and must be determined in the accordance with AS/NZS 4859.2.
- 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 is recommended to be positioned on the warm side of the construction to reduce 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.
- Suitable for interior applications where the product is protected from UV light, water and wind pressure during and after installation.

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

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Specific Design or Installation Instructions cont.

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

Conditions of Storage & 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.
- Do not pressure clean or use mineral based cleaners on the facing product.

Refer to the product SDS 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]	WEIGHT (kg)	PRODUCT	PRODUCT CODE			
LIGHT DUTY FACING										
R1.3	60	15	1200	18	14.8	Anticon 60	15417			
R1.3	60	15	1400	21	17.2	Anticon 60	74479			
R1.3	60	20	1200	24	19.7	Anticon 60	15574			
R1.8	80	15	1200	18	19.9	Anticon 80	16072			
R1.8	80	15	1200	18	24.9	Anticon FZ 80	475803			
R2.0	90	15	1200	18	22.0	Anticon 90	128181			
R2.3	100	10	1200	12	16.7	Anticon 100	15625			
R2.5	110	10	1200	12	17.7	Anticon 110	84860			
R2.5 HP	100	10	1200	12	20.7	Anticon 100 HP	85383			
R3.0	130	10	1200	12	22.1	Anticon 130	83271			
R3.3	140	7.5	1200	9	19.9	Anticon 140	102251			
R3.6	145	7.5	1200	9	23.8	Anticon 145	102252			
R3.6 HP	130	5	1200	6	18.8	Anticon 130 HP	194622			
R4.2	175	6	1200	7.2	19.7	Anticon 175	179193			
MEDIUM DU	TY FACING									
R1.3	60	15	1200	18	19.5	Anticon 60	15630^			
R1.8	80	15	1200	18	24.6	Anticon 80	15696^			
R2.3	100	10	1200	12	19.8	Anticon 100	15629			
R2.5	110	10	1200	12	20.9	Anticon 110	84859			
R2.5 HP	100	10	1200	12	23.8	Anticon 100 HP	88604^			
R3.0	130	10	1200	12	25.3	Anticon 130	81861^			
R3.3	140	7.5	1200	9	22.1	Anticon 140	102312			
R3.6 HP	130	7.5	1200	9	30.3	Anticon 130 HP	457378			
R3.6	145	7.5	1200	9	26.0	Anticon 145	102311^			
R4.2	175	6	1200	7.2	21.5	Anticon 175	132761^			
HEAVY DUT	Y FACING									
R1.3	60	15	1200	18	20.2	Anticon 60	16013			
R1.8	80	10	1200	12	16.9	Anticon 80	16106			
R2.3	100	10	1200	12	20.3	Anticon 100	15359			
R2.5	110	10	1200	12	21.3	Anticon 110	84858			
R2.5 HP	100	10	1200	12	24.3	Anticon 100 HP	95821			
R3.0	130	10	1200	12	25.7 Anticon 130		84891			
R3.3	140	7.5	1200	9	22.4	Anticon 140	114536			
R3.6	145	5.5	1200	6.6	19.2	Anticon 145	136684			
R3.6	145	7.5	1200	9	26.4	Anticon 145	121280			

^ AS/NZS 1530.3 Test Report available.

Material R-values are determined in accordance with AS/NZS 4859.1 at 23°C. The contribution of the reflective air-gap is construction dependant and excluded from the declared R-value. The duty classification of the facing material does not influence the R-value.

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Additional Product Data

Maximum Service Temperature		150°C for unfaced Glasswool 70°C for faced Glasswool			
Fire Hazard Properties	When assessed in accordance with AS/NZS 1530 Part 3	 Ignitability: 0 • Spread of flame: 0 Heat Evolved: 0 • Smoke Developed: 1 			

Acoustic Performance - Sound from the Foil Side

Sound absorption results tested in accordance with AS/ISO 354-2006 [R2016] and NRC and SAA rated using ASTM C423-22. The practical sound absorption coefficient (α_P) and weighted sound absorption coefficient (α_W) are determined as per AS/ISO 11654-2002 [R2016] (ISO 11654-1997).

			Frequency [Hz]								
Product	Thickness [mm]		125	250	500	1000	2000	4000	NRC	SAA	ССw
	Anticon 60	Practical Sound Absorption Coefficient (α _P)	0.25	0.75	1	0.55	0.25	0.15	0.65	0.64	0.30 (LM)
	Anticon 80		0.45	1	0.95	0.5	0.35	0.15	0.7	0.72	0.35 (LM)
	Anticon FZ 80		0.60	1.00	0.95	0.50	0.30	0.15	0.70	0.71	0.30 (LM)
	Anticon 90		0.55	1.00	1.00	0.55	0.40	0.20	0.75	0.75	0.40 (LM)
Anticon with	Anticon 100		0.65	1.00	0.90	0.50	0.35	0.20	0.75	0.74	0.35 (LM)
Light Duty	Anticon 100 HP		0.65	1.00	0.85	0.50	0.30	0.15	0.75	0.72	0.30 (LM)
Facing	Anticon 110		0.65	1.00	0.90	0.50	0.35	0.15	0.75	0.73	0.35 (LM)
	Anticon 130		0.90	1.00	0.80	0.55	0.35	0.20	0.70	0.71	0.35 (LM)
	Anticon 140		0.90	1.00	0.80	0.60	0.35	0.20	0.70	0.70	0.35 (LM)
	Anticon 145		0.95	1.00	0.85	0.65	0.35	0.20	0.75	0.74	0.35 (LM)
	Anticon 175		0.95	1.00	0.90	0.75	0.40	0.20	0.80	0.79	0.40 (LM)
	Anticon 60		0.25	0.75	0.90	0.30	0.15	0.10	0.50	0.52	0.20 (LM)
	Anticon 80		0.45	1.00	0.65	0.25	0.10	0.05	0.55	0.53	0.15 (LM)
	Anticon 100 HP		0.75	1.00	0.60	0.25	0.20	0.15	0.55	0.54	0.25 (LM)
Anticon with	Anticon 100		0.70	1.00	0.50	0.25	0.15	0.10	0.50	0.48	0.20 (LM)
Medium	Anticon 110		0.75	1.00	0.55	0.25	0.20	0.15	0.50	0.52	0.25 (LM)
Duty Facing	Anticon 130		0.80	0.95	0.50	0.30	0.20	0.10	0.50	0.48	0.25 (LM)
	Anticon 140		1.00	0.90	0.55	0.30	0.20	0.05	0.45	0.48	0.20 (LM)
	Anticon 145		1.00	0.90	0.55	0.35	0.20	0.10	0.50	0.49	0.25 (LM)
	Anticon 175		1.00	0.90	0.55	0.35	0.20	0.10	0.45	0.49	0.25 (LM)
Austic on with	Anticon 80		0.50	1.00	0.65	0.30	0.15	0.15	0.60	0.56	0.25 (LM)
Anticon with	Anticon 100		0.75	1.00	0.55	0.25	0.15	0.05	0.50	0.51	0.20 (LM)
Heavy Duty Facing	Anticon 110		0.75	1.00	0.50	0.25	0.15	0.10	0.50	0.50	0.20 (LM)
raoing	Anticon 130		0.85	0.95	0.50	0.30	0.20	0.15	0.50	0.49	0.25 (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 SDS at Bradfordinsulation.com.au for more information.**

National Asthma Council Sensitive Choice

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