Bradford™ anticon™

TECHNICAL DATASHEET

Revision level C

ANTICON™ FACED GLASSWOOL BLANKET

PRODUCT DESCRIPTION

Bradford Anticon is a lightweight, laminate faced insulation blanket specifically designed to provide a combination of acoustic, thermal and condensation control under metal roofs or concrete soffits in residential and commercial buildings.

Bradford Anticon Blanket consists of a bulk insulation blanket adhered to 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 a thermosetting resin. The RFL facing typically extends 150mm beyond one longitudinal edge of the blanket to provide an overlap for sealing the blankets.

APPLICATIONS

Anticon 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 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 ≤ 5

SPECIFICATION TEXT

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

The insulation material shall be Bradford Anticon FBS-1 Glasswool blanket of thickness____mm *(specify thickness)*, that is thermally rated to AS/NZS4859.1, faced with____*(specify 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[1]	THICKNESS (mm)	WIDTH (mm)	LENGTH (m)[2]	FACING
Anticon 60	R1.3	60	1200 or 1400	15 or 20 (LD,MD, HD, TUFF HD)	LD, MD, HD, AG MD or HD, TUFF MD or HD
Anticon 70	R1.4	70	1200	15 or 20	LD
Anticon 80	R1.8	80	1200	15	LD, MD, HD, AG MD or HD, TUFF MD or HD
Anticon 90	R2.0	90	1200	15 (LD & MD) or 10 (HD)	LD, MD, HD
Anticon 100	R2.3	100	1200	10	LD, MD, HD, AG MD or HD
Anticon 100 HP[3]	R2.5	100	1200	10	LD, MD, HD
Anticon 110	R2.5	110	1200	10	LD, MD, HD
Anticon 130	R3.0	130	1200	10	LD, MD, HD, AG MD or HD
Anticon 130 HP[3]	R3.6	130	1200	5	LD
Anticon 140	R3.3	140	1200	7.5	LD, MD
Anticon 145	R3.6	145	1200	7.5	LD, MD

Available Facings

- Reflective Foil Laminate (RFL) – reflective facing foil, specifically designed to act as a vapour control layer and contribute a reflective air-gap R-Value. Available in various duty grades; Light (LD), Medium (MD) and Heavy (HD).
- Antiglare (AG) - Antiglare foil facing specifically developed for use in the northern States of Australia. These products have an antiglare foil installed in an upwards direction to allow installation in direct sunlight, available in Medium (MD) and Heavy (HD).
- Tuff – Reflective foil facing with a Polyweave Backing, specifically designed to provide additional tear resistance and reduces resistance to unrolling during installation, available in Medium (MD) and Heavy (HD).

SUPPORT SPACING	FOIL DUTY
≤ 600	Light Duty (LD)
≤ 900	Medium Duty (MD)
≤ 1200	Heavy Duty (HD)
≤ 1200	Use support mesh with any of the above

PRODUCT SPECIFICATIONS

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 Heat Evolved: 0 Smoke Developed: 1
CORROSION RESISTANCE	When tested in accordance with BS 3958.5:1969	pH 7.5-8.0 Incapable to corrode steel
FLAMMABILITY INDEX	AS 1530.2	All available facings have a flammability index rating of ≤5 (low)

PRODUCT PERFORMANCE

Sound Absorption[4]

PRODUCT	THICKNESS	FREQUENCY (Hz)						
	(mm)	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[5]

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. For guidance on full system performance refer to the DesignSmart On-Line calculator at www.bradfordinsulation.com.au/designsmart or the ICANZ Thermal Insulation handbook available from www.bradfordinsulation.com.au or contact your Bradford office. 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 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 10m2 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 sandwiches 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.

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