

Acoustigard® Batts

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

Issue J

Product Type & Application

Acoustigard® Batts are non-combustible Glasswool batts for thermal and acoustic insulation in steel-framed internal or external partitions and walls.

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 Amend. 2 J4D3(1) and ABCB Housing Provisions Standard 2022 Amend. 2 13.2.2(1). This product meets the requirements of the NCC through compliance with AS/NZS 4859.1.
- **Non-Combustibility** - Meets the non-combustible requirements of NCC 2022 Volume 1 Amend. 2 C2D10(1) when tested or assessed in accordance with AS 1530.1.
- **Fire Hazard Properties** - Meets the requirements of the NCC 2022 Volume 1 Amend. 2 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.
- **Acoustics** - Reported thickness and density provide details for compliance with Deemed-To-Satisfy sound insulation construction in NCC 2022 Volume 1 Amend. 2 Specification 28 and ABCB Housing Provisions Standard 2022 Amend. 2 Part 10.7.

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. This product meets the requirements of the NCC through compliance with AS/NZS 4859.1.
- **Non-Combustibility** - Meets the non-combustible requirements of NCC 2019 Volume 1 Amend. 1 C1.9(a) when tested or assessed in accordance with AS 1530.1.
- **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.
- **Acoustics** - Reported thickness and density provide details for compliance with Deemed-To-Satisfy sound insulation construction in NCC 2019 Volume 1 Amend. 1, Specification F5.2 and Acceptable Construction Practice in NCC 2019 Volume 2 Amend. 1, Tables 3.8.6.1a-3.8.6.1d.

Limitations of Use

- **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.
- **IMPORTANT:** Acoustigard 24 and Acoustigard 32 are high-density products that will not compress during installation and must be installed in a cavity of the correct size, with no obstructions. If installed in a cavity smaller than the product's nominal thickness, there is a risk of deformation or detachment of rigid wall lining materials.
- This product is not suitable for use as an exposed internal 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 Amend. 1, Specification C1.10 Clause 4, NCC 2022 Volume 1 Amend. 2 S7C4).
- Unfaced Glasswool is not a water or vapour barrier and is not suitable for water or vapour control.
- Check the plasterboard, ceiling tile or ceiling grid manufacturer's weight limitations prior to increasing the recommended R-Values or densities to ensure the structure can support the additional weight of the insulation batts.
- Maximum service temperature is 150°C for Glasswool.

Evidence of Suitability

- Testing to AS/NZS 4859.1 at 23°C across the following reports-
 - CSR Lab Report R-20037.
 - CSR Lab Report R-20038.
 - CSR Lab Report R-20046.
 - CSR Lab Report R-20048.
 - CSR Lab Report R-20049.
 - AWTATA NATA Report 23-001633.
- Testing and Professional Assessment, AS 1530.1 –
 - Warringtonfire Assessment FAS220051.
- Testing and Professional Assessment, AS/NZS 1530.3 –
 - Warringtonfire Assessment FAS200045.

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.

Refer to the product SDS at Bradfordinsulation.com.au for more information

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Specific Design or Installation Instructions

- Isolate power before installation.
- **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.
- **IMPORTANT:** Acoustigard 24 and Acoustigard 32 are high-density products that will not compress during installation and must be installed in a cavity of the correct size, with no obstructions. If installed in a cavity smaller than the product's nominal thickness, there is a risk of deformation or detachment of rigid wall lining materials.
- Suitable for applications that specify non-combustible bulk insulation products - not suitable for exposed internal wall and ceiling lining applications that require a Group Number.
- Suitable for applications where the product is protected from direct UV light, water and wind pressure during and after installation.
- 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.
- 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 accordance with AS/NZS 4859.2.
- Compensate for gaps as specified by the NCC 2019 Volume 2 Amend. 1 3.12.1.2(e) and Table 3.12.1.1h, ABCB Housing Provisions Standard 2022 Amend. 2 13.2.3(5) and Table 13.2.3w. Insulation should be installed at nominal thickness, except where it crosses structures, services and fittings.
- In a roof space where the existing insulation is dry, well lofted, in good condition with even distribution and installed in accordance with the NCC, additional ceiling insulation may be installed over the existing layer. All non-mandatory gaps in the existing layer of insulation should be filled prior to installing the additional layer. Clearance from lights, flues and appliances as required by the NCC and referenced standards should be maintained. When calculating the overall Total R-value of the final assembly of insulation, allowance should be made for compression of the lower layer of insulation which will reduce its thermal performance.

Specific Design or Installation Instructions cont.

- It is recommended that additional ceiling insulation not be installed on top of existing insulation deemed to be combustible.
- Ceiling perimeter batts may be required to achieve compliance depending upon roof and exterior wall design.

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.

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Applicable Product Codes

R-VALUE [m²K/W]	DENSITY [kg/m³]	THICKNESS [mm]	DIMENSIONS [mm]	PIECES PER PACK	m² PER PACK	PACKS PER MULTI	PRODUCT CODE
R1.8	14	75	1200 x 450	14	7.5	6	196982
R1.8	14	75	1200 x 600	14	10.0	6	169546
R2.2	14	90	1200 x 450	12	6.4	6	485952
R2.2	14	90	1200 x 600	12	8.6	6	485951
R2.1	24	75	1200 x 450	8	4.3	6	485954
R2.1	24	75	1200 x 600	8	5.7	6	485953
R2.5	24	90	1200 x 450	8	4.3	5	485955
R2.5	24	90	1200 x 600	8	5.7	5	485956
R2.2	32	75	1200 x 450	6	3.2	6	485958
R2.2	32	75	1200 x 600	6	4.3	6	485957
R2.7	32	90	1200 x 450	5	2.7	5	485959
R2.7	32	90	1200 x 600	5	3.6	5	485960

Material R-values are determined in accordance with AS/NZS 4859.1 at 23°C and apply to the product installed at nominal thickness.

Additional Product Data

Maximum Service Temperature		150°C (suitable where a long term surface operating temperature $\geq 90^{\circ}\text{C}$ is required for insulation around heat generating equipment.)
Fire Hazard Properties	When assessed in accordance with AS/NZS 1530.3	<ul style="list-style-type: none"> • Ignitability: 0 • Spread of Flame: 0 • Heat Evolved: 0 • Smoke Developed: 1
Non-Combustibility	When assessed to AS 1530.1	Non - Combustible
Sample Specification	The insulation material shall be Bradford Acoustigard Batts having a material R-Value; Rm....(specify R-Value) @ XXmm....(specify thickness) having a nominal density YYkg/m³(specify density), and shall be deemed non-combustible when tested to AS 1530.1. For installation specifications refer to the relevant Bradford Product Selector.	

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Acoustic Performance

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 is determined as per AS/ISO 11654-2002 [R2016]. The weighted sound absorption coefficient is determined as per AS/ISO 11654-2002 [R2016].

Flow Resistivity tested in accordance with ASTM C522-03 [R2016].

Density [kg/m ³]	Thickness [mm]		Frequency [Hz]						NRC	SAA	Flow Resistivity [Rayl/m]	α_w
			125	250	500	1000	2000	4000				
14	75	Practical Sound Absorption Coefficient (α_p)	0.30	0.80	1.00	1.00	1.00	1.00	0.95	0.96	6027	1.00
14	90		0.35	0.95	1.00	1.00	1.00	1.00	1.00	0.99	6111	1.00
24	75		0.40	1.00	1.00	1.00	1.00	1.00	1.10	1.06	14880	1.00
24	90		0.40	1.00	1.00	1.00	1.00	1.00	1.05	1.04	10600	1.00
32	75		0.45	1.00	1.00	1.00	1.00	1.00	1.10	1.07	17533	1.00
32	90		0.55	1.00	1.00	1.00	1.00	1.00	1.10	1.10	18956	1.00

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