

Bradford Acoustic Gold™

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

Issue A, 5/2023

Product Type & Application

Bradford Acoustic Gold™ is a high density Glasswool insulation product. It is for use in wall, floor and ceiling applications where acoustic performance is required and to reduce heat transfer through the building envelope.

Compliance with the New Zealand Building Code

When correctly specified and installed, this product meets or contributes to compliance with the following performance requirements of the building code:

- **B2 Durability** B2.3.1(a) – Glasswool insulation has a well-established history of use in service.
- **E3 Internal Moisture E3.3.1** - Bradford Acoustic Gold™ listed in this PTS exceed R1.5 as in Acceptable Solution E3/AS1 and contribute to compliance with E3.3.1.
- **F2 Hazardous building materials** F2.3.1 - Bradford Acoustic Gold™ does not emit or give rise to harmful concentrations of gas, liquid, radiation or solid particles.
- **G6 Airborne and Impact Sound** G6.3.1, G6.3.2 - Bradford Acoustic Gold™ exceeds the minimum density specified in G6/AS1 and contributes to the attenuation of airborne and impact sound through walls and floors/ceilings.
- **H1 Energy Efficiency** H1.3.1(a), H1.3.2E - Bradford Acoustic Gold™ has been tested to AS/NZS 4859 to determine insulation R-values for use in accordance with Acceptable Solutions H1/AS1 and H1/AS2 and Verification Methods H1/VM1 and H1/VM2.

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.
- 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 NZBC clause C3.4(c).
- Unfaced Glasswool is not a water or vapour barrier and is not suitable for water or vapour control.
- Not to be used for external concrete slab insulation.
- Maximum service temperature is 300°C for Glasswool.
- 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 batts.
- This product is not subject to any warning or ban declared by MBIE under section 26 of the Building Act 2004.

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.
- 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.
- It should be installed at nominal thickness, except where it crosses structures, services and fittings.
- Ceiling perimeter batts may be required to achieve compliance depending upon roof and exterior wall design.
- Suitable for interior applications where the product is protected from direct UV light, water and wind pressure during and after installation.

For general installation guidance refer to the product installation guide at Bradfordinsulation.co.nz

Supplementary information - Additional installation guidance for this product can be found in NZS 4246:2016.

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 SUI/SMSD at Bradfordinsulation.com.au for more information.

This Product Technical Statement is published in accordance with the Building Act 2004 Section 14g. It relates to this product when it is produced at a CSR approved facility in accordance with CSR Specifications and approved materials, is unmodified, and installed in accordance with the technical data, plans, specifications, and advice prescribed by the manufacturer. It relates to the provisions of the building code in effect at the date of issue of this Product Technical Statement.

Bradford Acoustic Gold™

Basis of Compliance

- Testing to AS/NZS 4859.1 across the following reports-
 - BRANZ Test Report DI16104-08
 - BRANZ Test Report DI16104-17
- Professional Assessment, AS 1530.1 –
 - CSIRO Assessment Report FCO-2812
- Tested in accordance with ISO 11654:1997 Acoustics: Sound Absorbers for Use in Buildings – Rating of Sound Absorption -
 - RMIT Report 121I/08-208/PD
 - RMIT Report 121I/08-209/PD
- Acceptable Solutions and Verification Methods for New Zealand Building Code Clause E3 Internal Moisture Second edition Amendment 7, 5 November 2020.
- Compliance Document for New Zealand Building Code Clause G6 Airborne and Impact Sound, First edition (Amendment 2), 1 December 1995.
- H1 Energy Efficiency, Acceptable Solution H1/AS1, Energy efficiency for all housing, and buildings up to 300 m², Fifth edition Amendment 1, 4 August 2022.
- H1 Energy Efficiency, Acceptable Solution H1/AS2, Energy efficiency for buildings greater than 300 m², First edition Amendment 1, 4 August 2022.
- H1 Energy Efficiency, Verification Method H1/VM1, Energy efficiency for all housing, and buildings up to 300 m², Fifth edition Amendment 1, 4 August 2022.
- H1 Energy Efficiency, Verification Method H1/VM2, Energy efficiency for all housing, and buildings greater than 300 m², First edition Amendment 1, 4 August 2022.
- Bradford Safe Use Information Sheet CSR-SHE-Glasswool SUIS Issued 9 June 2020.

Applicable Product Codes

R-VALUE (m ² K/W)	THICKNESS (mm)	STANDARD SIZE (mm)	PIECES PER PACK	m ² PER PACK	PRODUCT CODE
R1.8	75	1160 x 580	16	10.8	89731
R2.2	90	1160 x 580	16	10.8	118332

Additional Product Data

Maximum Service Temperature	300°C (suitable where a long-term surface operating temperature ≥90°C is required for insulation around heat generating equipment.)
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Bradford Acoustic GoldTM

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	α_w
			125	250	500	1000	2000	4000		
Acoustic Gold	75mm	0.35	0.35	0.7	1.0	0.95	1.0	1.0	0.9	0.95
	90mm		0.4	0.85	1.0	1.0	1.0	1.0	1.0	1.0

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

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

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.



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