Bradford™

NZ Product Technical Statement

Acoustigard™ Partition Rolls

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

Issue **A, 4/2023**

Product Type & Application

Acoustigard™ Partition Rolls are non-combustible Glasswool rolls for thermal and acoustic insulation in internal or external partitions and walls. They are also suitable for roof or ceiling use.

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 – AcoustigardTM Partition Rolls (75 mm) exceeds R1.5 as in Acceptable Solution E3/AS1 and contributes to compliance with E3.3.1
- **F2 Hazardous building materials** F2.3.1 – AcoustigardTM Partition Rolls do not emit or give rise to harmful concentrations of gas, liquid, radiation or solid particles.
- **G6 Airborne and impact sound** G6.3.1 – AcoustigardTM Partition Rolls provide significant sound attenuation and contribute to acoustic insulation in internal or external partitions and walls.
- **H1 Energy Efficiency** H1.3.1(a), H1.3.2E – AcoustigardTM Partition Rolls have been tested to AS/NZS 4859.1 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.

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 SUIS/MSDS at Bradfordinsulation.com.au for more information.

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.
- 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 frame 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.

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.

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Basis of Compliance

- Testing to AS/NZS 4859.1 across the following reports-
  - CSR Lab Report R-20036
  - CSR Lab Report R-20037
- RMIT University Report 121I/10-191/JW 21 Determination of Sound Absorption Coefficients, December 2010
- Acceptable Solutions and Verification Methods for New Zealand Building Code Clause E3 Internal Moisture Second edition Amendment 7, 5 November 2020
- H1 Energy Efficiency, Acceptable Solution H1/AS1, Energy efficiency for all housing, and buildings up to 300m², Fifth edition Amendment 1, 4 August 2022
- H1 Energy Efficiency, Acceptable Solution H1/AS2, Energy efficiency for buildings greater than 300m², First edition Amendment 1, 4 August 2022
- H1 Energy Efficiency, Verification Method H1/VM1, Energy efficiency for all housing, and buildings up to 300m², Fifth edition Amendment 1, 4 August 2022
- H1 Energy Efficiency, Verification Method H1/VM2, Energy efficiency for all housing, and buildings greater than 300m², First edition Amendment 1, 4 August 2022
- Bradford Safe Use Information Sheet CSR-SHE-Glasswool SUIS Issued 9 June 2020

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 wall or ceiling lining in applications which require a Group Number in accordance with building code clause C3.4(a).
- Unfaced Glasswool is not a water or vapour barrier and is not suitable for water or vapour control.
- Maximum service temperature is 300°C for unfaced 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 insulation batts.
- This product is not subject to any warning or ban declared by MBIE under section 26 of the Building Act 2004.

Applicable Product Codes

R-VALUE (m^2K/W)	DENSITY (kg/m^3)	THICKNESS (mm)	LENGTH (m)	WIDTH (mm)	ROLLS PER PACK	COVERAGE PER PACK (m^2)	PRODUCT CODE
R1.2	14	50	16.2	600	2	19.4	119522
R1.8	14	75	13.5	600	2	16.2	119524

Bradford NZ, 14 The Furlong, Takanini, Auckland For further technical advice call 0800 277 123/ visit bradfordinsulation.co.nz/ email bradford@csr.co.nz

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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.)
Non-Combustibility	When assessed to AS 1530.1*	Non - Combustible
Sample Specification	The insulation material shall be Bradford Acoustigard Partition Rolls having a material R-Value; Rm….(specify R-Value) @ XXmm….(specify thickness) having a nominal density YYkg/m^3 ….(specify density), and shall be deemed non-combustible when tested to AS 1530.1. For installation specifications refer to the relevant Bradford Product Selector.	

*Testing and Professional Assessment, AS 1530.1 – CSIRO Assessment FCO-2812.

Acoustic Performance

Sound absorption results tested in accordance with AS/ISO 354-2006. NRC rated in using ASTM C423-90A, and weighted sound absorption coefficient α_w as per AS/ISO 11654-1997. Flow Resistivity tested in accordance with ASTM C522 -

			Frequency (Hz)									
Density (kg/m^3)	**Thickness (mm)**	**Sound Absorption Coefficient (α_S)**	**125**	**250**	**500**	**1000**	**2000**	**4000**	**5000**	**NRC**	**Flow Resistivity (mks rayl/m)**	**α_w**
14	75		0.26	0.71	1.03	1.00	0.95	0.99	0.97	0.90	5840	0.95

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