

# Bradford SoundScreen®

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

Issue I

## Product Type & Application

Bradford SoundScreen® is a non-combustible, high density Glasswool acoustic insulation product. It is for use in internal walls and mid-floors to reduce noise transfer between rooms. The product is also a thermally rated insulation product and can be used in external walls and ceilings.

## 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.
- **Non-Combustibility** - Meets the non-combustible requirements of NCC 2022 Volume 1 C2D10(1) when tested or assessed in accordance with AS 1530.1.
- **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.

### 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.

## 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](http://Bradfordinsulation.com.au) for more information.

## 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:** R2.0, R2.5 and R3.1 Soundscreen® batts 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 S7C4).
- Unfaced Glasswool is not a water or vapour barrier and is not suitable for water or vapour control.
- Maximum service temperature is 150°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 insulation batts.

## Evidence of Suitability

- Testing to AS/NZS 4859.1 at 23°C across the following reports-
  - CSR Lab Report R-20010.
  - CSR Lab Report R-20022.
  - CSR NATA Report NR-23115.
- Testing and Professional Assessment to AS 1530.1 across the following reports-
  - CSR Lab NATA Report NR-18011B.
  - CSR Lab NATA Report NR-18009.
  - CSR Lab NATA Report NR-22109.
  - Warringtonfire Assessment FAS220051.
- Testing and Professional Assessment, AS/NZS 1530.3 –
  - Warringtonfire Assessment FAS200045.

## Bradford SoundScreen®

### 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:** R2.0, R2.5 and R3.1 Soundscreen® batts 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.
- 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.
- 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 13.2.3(5) and Table 13.2.3w. Insulation 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.
- 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.
- 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.
- Suitable for 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.com.au](http://Bradfordinsulation.com.au)**

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

## Bradford SoundScreen®

### Applicable Product Codes

R-VALUE [m²K/W]	THICKNESS [mm]	STANDARD SIZE [mm]	PIECES PER PACK	m² PER PACK	COVERAGE PER PACK [m²]	PACKS PER MULTI	PRODUCT CODE
R2.0	70	1160 x 430	9	4.5	5.1	6	182312
R2.0	70	1160 x 580	9	6.1	6.8	6	182313
R2.0*	70	1200 x 450	9	4.8	4.8	6	451621
R2.0*	70	1200 x 600	9	6.5	6.5	6	182285
R2.5	88	1160 x 430	7	3.5	3.9	6	182287^
R2.5	88	1160 x 580	7	4.7	5.3	6	182286^
R2.5*	88	1200 x 450	7	3.7	3.7	6	451622^
R2.5*	88	1200 x 600	7	5.0	5.0	6	451623^
R3.1	110	1160 x 430	6	3.0	3.4	6	182314
R3.1	110	1160 x 580	6	4.0	4.5	6	182315
R3.1*	110	1200 x 450	6	3.2	3.2	6	490101
R3.1*	110	1200 x 600	6	4.3	4.3	6	487764

\*: Suitable for steel frame construction.

^ AS/NZS 1530.3 Test Report available.

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

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

### 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].

Product	Thickness [mm]	Practical Sound Absorption Coefficient ( $\alpha_p$ )	Frequency [Hz]						NRC	SAA	Flow Resistivity [Ray/m]	$\alpha_w$
			125	250	500	1000	2000	4000				
SoundScreen R2.0	70		0.40	1.00	1.00	1.00	1.00	1.00	1.10	1.08	13157	1.00
SoundScreen R2.5	88		0.45	1.00	1.00	1.00	1.00	1.00	1.10	1.11	12500	1.00
SoundScreen R3.1	110		0.85	1.00	1.00	1.00	1.00	1.00	1.15	1.13	11736	1.00

## Bradford SoundScreen<sup>®</sup>

### 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](http://Bradfordinsulation.com.au) for more information.**



**National Asthma Council Sensitive Choice**