

Bradford® Core

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

Issue **D**

Product Type & Application

Bradford Core are non-combustible Glasswool thermal insulation products. They are for use in external walls and ceilings to reduce heat transfer through the building envelope.

Compliance with the NCC

For use in Australia, when correctly specified and installed, this product provides the following compliance:

NCC 2025

- **Thermal** - Complies with NCC 2025 Volume 1 J4D3(1) and ABCB Housing Provisions Standard 2025 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 2025 Volume 1 C2D10(1) when assessed in accordance with AS 1530.1.
- **Fire Hazard Properties** - Meets the requirements of the NCC 2025 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 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.

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.

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:** R2.5 and R2.7 Wall 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 Amend. 2 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 batts.

Evidence of Suitability

- Testing to AS/NZS 4859.1 at 23°C across the following reports-
 - CSR NATA Lab Report NR-22004
 - CSR Lab Report R-25015
 - CSR Lab Report R-25016
 - CSR Lab Report R-26007
 - CSR Lab Report R-26010
 - CSR Lab Report R-26018
 - BRANZ Report DI14305-003
 - BRANZ Report DI16067-01
- Testing to AS 1530.1 across the following reports –
 - CSR NATA Lab Report NR-21010
 - CSR NATA Lab Report NR-21012
 - CSR NATA Lab Report NR-22104
 - CSR NATA Lab Report NR-22105
 - CSR NATA Lab Report NR-26101
 - CSR NATA Lab Report NR-26102
 - CSR NATA Lab Report NR-26103
 - CSR NATA Lab Report NR-26110
- Testing to AS/NZS 1530.3 across the following reports–
 - AWTa Report 21-004011
 - AWTa Report 21-004083
 - AWTa Report 21-004866
 - AWTa Report 21-005378
 - AWTa Report 22-000742
 - AWTa Report 26-002084
 - CSIRO NATA Report FNE13487
 - CSR Lab Report R-26011

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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.

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:** R2.5 and R2.7 Wall 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.
- 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.

Specific Design or Installation Instructions cont.

- 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.
- Ceiling perimeter batts may be required to achieve compliance depending upon roof and exterior wall design.
- 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.
- 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

Supplementary information - Additional installation guidance for this product can be found in AS3999.

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Applicable Product Codes – Wall Products

R-VALUE [m ² K/W]	THICKNESS [mm]	STANDARD SIZE [mm]	PIECES PER PACK	m ² PER PACK	COVERAGE PER PACK [m ²]	PACKS PER MULTI	PRODUCT CODE
R2.0	90	1160 x 430	21	10.5	11.71	8	192941 [^]
R2.0	90	1160 x 580	21	14.1	15.53	8	189188 [^]
R2.5 (HP)	90	1160 x 430	12	6.0	6.7	5	493619 [^]
R2.5 (HP)	90	1160 x 580	12	8.1	8.9	5	493651 [^]
R2.5 (HP)	90	1160 x 420	14	6.8	7.6	6	471512 [^]
R2.5 (HP)	90	1160 x 570	14	9.2	10.2	6	471487 [^]
R2.7 (HP)	90	1160 x 430	8	3.9	4.3	5	493485
R2.7 (HP)	90	1160 x 580	8	5.3	5.8	5	493486

[^] 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.

Applicable Product Codes – Ceiling Products

R-VALUE [m ² K/W]	THICKNESS [mm]	STANDARD SIZE [mm]	PIECES PER PACK	m ² PER PACK	COVERAGE PER PACK [m ²]	PACKS PER MULTI	PRODUCT CODE
R3.5	175	1160 x 430	12	6.0	6.5	8	471513 [^]
R3.5	175	1160 x 580	12	8.0	8.6	8	471495 [^]
R4.1	195	1160 x 430	12	6.0	6.5	8	478158 [^]
R4.1	195	1160 x 430	14	7.0	7.6	6	471514 [^]
R4.1	195	1160 x 580	12	8.0	8.6	8	478260 [^]
R4.1	195	1160 x 580	14	9.4	10.0	6	471488 [^]
R5.0 (HP)	230	1160 x 430	8	4.0	4.3	7	471515 [^]
R5.0 (HP)	230	1160 x 580	8	5.4	5.7	7	471489 [^]
R6.0 (HP)	255	1160 x 430	6	3.0	3.2	7	471516 [^]
R6.0 (HP)	255	1160 x 580	6	4.0	4.3	7	471510 [^]

[^] 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

Maximum Service Temperature		150°C (suitable where a long term surface operating temperature ≥90°C is required for insulation around heat generating equipment.)
Fire Hazard Properties	When tested in accordance with AS/NZS 1530 Part 3-1999	• Ignitability: 0 • Spread of flame: 0 • Heat Evolved: 0 • Smoke Developed: 2
Non-Combustibility	When tested to AS 1530 Part 1	Non - Combustible

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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.