

# Bradford Gold® Wall Batts

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

Issue P

## Product Type & Application

Bradford Gold® wall batts are non-combustible Glasswool thermal insulation products. They are for use in external walls 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.

## 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:** R2.2(HP), R2.5(HP), R2.7(HP) and R4.0(HP) 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.
- 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 [csrbradford.com.au](http://csrbradford.com.au)

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

## Bradford Gold<sup>®</sup> Wall Batts

### 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:** R2.2(HP), R2.5(HP), R2.7(HP) and R4.0(HP) 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, NCC 2025 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.

### Evidence of Suitability

- Testing to AS/NZS 4859.1 at 23°C across the following reports-
  - CSR Lab Report R-20005.
  - CSR Lab Report R-20006.
  - CSR Lab Report R-20007.
  - CSR Lab Report R-20017.
  - CSR Lab Report R-20018.
  - CSR Lab Report R-20019.
  - CSR Lab Report R-20020.
  - CSR Lab Report R-26001.
  - CSR Lab Report R-26002.
  - CSR Lab Report R-26003.
  - CSR Lab Report R-26004.
  - CSR Lab Report R-26005.
  - CSR Lab Report R-26006.
- Testing and Professional Assessment to AS 1530.1 across the following reports –
  - CSR NATA Lab Report NR-18006.
  - CSR NATA Lab Report NR-18007.
  - CSR NATA Lab Report NR-20003.
  - CSR NATA Lab Report NR-20004.
  - CSR NATA Lab Report NR-22102.
  - CSR NATA Lab Report NR-22103.
  - CSR NATA Lab Report NR-22112.
  - Warringtonfire Assessment FAS220051.
- Professional Assessment, AS/NZS 1530.3 –
  - CSIRO NATA Assessment FCO-3620.

### 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 [csrbradford.com.au](https://csrbradford.com.au) for more information.

## Bradford Gold® Wall Batts

### Applicable Product Codes – Wall Products

| R-VALUE [m <sup>2</sup> K/W] | THICKNESS [mm] | STANDARD SIZE [mm] | PIECES PER PACK | m <sup>2</sup> PER PACK | COVERAGE PER PACK [m <sup>2</sup> ~] | PACKS PER MULTI | PRODUCT CODE         | NEW PRODUCT CODE |
|------------------------------|----------------|--------------------|-----------------|-------------------------|--------------------------------------|-----------------|----------------------|------------------|
| R2.0 (HP)                    | 75             | 1160 x 420         | 12              | 5.8                     | 6.5                                  | 6               | 152166 <sup>1</sup>  | 493718           |
| R2.0 (HP)                    | 75             | 1160 x 570         | 12              | 7.9                     | 8.7                                  | 6               | 152192 <sup>1</sup>  | 493721           |
| R2.0 (HP) *                  | 75             | 1200 x 450         | 12              | 6.5                     | 6.5                                  | 6               | 131367 <sup>1</sup>  | 493716           |
| R2.0 (HP) *                  | 75             | 1200 x 600         | 12              | 8.6                     | 8.6                                  | 6               | 131368 <sup>1</sup>  | 493717           |
| R2.0                         | 90             | 1160 x 430         | 22              | 11.0                    | 12.2                                 | 5               | 15250 <sup>1</sup>   | 493711           |
| R2.0                         | 90             | 1160 x 580         | 18              | 12.1                    | 13.3                                 | 6               | 15229 <sup>1</sup>   | 493710           |
| R2.0 *                       | 90             | 1200 x 450         | 18              | 9.7                     | 9.7                                  | 6               | 127777 <sup>1</sup>  | 493713           |
| R2.0 *                       | 90             | 1200 x 600         | 18              | 12.9                    | 12.9                                 | 6               | 127782 <sup>1</sup>  | 493715           |
| R2.2 (HP)                    | 75             | 1160 x 420         | 6               | 2.9                     | 3.3                                  | 6               | 152168 <sup>1</sup>  | 493719           |
| R2.2 (HP)                    | 75             | 1160 x 570         | 6               | 4.0                     | 4.4                                  | 6               | 152194 <sup>1</sup>  | 493722           |
| R2.2                         | 90             | 1160 x 430         | 16              | 8.0                     | 8.9                                  | 5               | 170351 <sup>2</sup>  |                  |
| R2.2                         | 90             | 1160 x 580         | 16              | 10.8                    | 11.8                                 | 5               | 170227 <sup>2</sup>  |                  |
| R2.5 (HP)                    | 90             | 1160 x 420         | 9               | 4.4                     | 4.9                                  | 6               | 181430 <sup>^1</sup> | 493726           |
| R2.5 (HP)                    | 90             | 1160 x 570         | 9               | 6.0                     | 6.5                                  | 6               | 181471 <sup>^1</sup> | 493729           |
| R2.5 (HP) *                  | 90             | 1200 x 450         | 9               | 4.9                     | 4.9                                  | 6               | 181412 <sup>^1</sup> | 493724           |
| R2.5 (HP) *                  | 90             | 1200 x 600         | 9               | 6.5                     | 6.5                                  | 6               | 181433 <sup>^1</sup> | 493728           |
| R2.7 (HP)                    | 90             | 1160 x 420         | 5               | 2.4                     | 2.7                                  | 5               | 152191 <sup>^1</sup> | 493720           |
| R2.7 (HP)                    | 90             | 1160 x 570         | 5               | 3.3                     | 3.6                                  | 5               | 152197 <sup>^1</sup> | 493723           |
| R2.7 (HP) *                  | 90             | 1200 x 450         | 5               | 2.7                     | 2.7                                  | 5               | 127780 <sup>^1</sup> | 493714           |
| R2.7 (HP) *                  | 90             | 1200 x 600         | 5               | 3.6                     | 3.6                                  | 5               | 126512 <sup>^1</sup> | 493712           |
| R4.0 (HP)                    | 140            | 1160 x 420         | 5               | 2.4                     | 2.7                                  | 6               | 181432 <sup>^1</sup> | 493727           |
| R4.0 (HP) *                  | 140            | 1160 x 450         | 5               | 2.6                     | 2.6                                  | 6               | 491980 <sup>^1</sup> | 494638           |
| R4.0 (HP)                    | 140            | 1160 x 570         | 5               | 3.3                     | 3.6                                  | 6               | 181416 <sup>^1</sup> | 493725           |

\* Suitable for steel frame construction.

^ AS/NZS 1530.3 Test Report available.

1: Product transition from Gold to Gold Comfort Touch Technology, effective April 2026.

2: Product discontinued, with a last manufacturing date of 31/3/2026.

~Based on a single batt between 35mm framing, with one noggling per cavity. The framing ratio for wall heights 2400-2550mm high is used to determine coverage per pack. This does not include other intermediate or double/extra framing members around openings etc.

Where required by Standards and Codes, removal of insulation around recessed luminaires, electrical equipment or flues etc must be considered separately, and compensated for adequately.

Steel frame calculations assume that the thickness and area of the frame is negligible, so batt area per pack is the coverage area per pack.

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

## Bradford Gold® Wall Batts

### 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 Part 3-1999  | <ul style="list-style-type: none"> <li>• Spread of flame: 0</li> <li>• Smoke Developed: 1</li> </ul>  |
| <b>Non-Combustibility</b>                   | When assessed to AS 1530 Part 1   | Non - Combustible   |
| <b>Sample Specification – Wall Products</b> | The insulation material shall be Bradford Gold® or Bradford Gold® Comfort Touch Technology having a material R-Value; Rm...(specify R-Value) @ XXmm... (specify thickness). |   |

### 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        | Practical Sound Absorption Coefficient ( $\alpha_p$ ) | Frequency [Hz] |      |      |      |      |      | NRC  | SAA  | Flow Resistivity [Rayl/m] | $\alpha_w$ |
|----------------|---|----------------|------|------|------|------|------|------|------|---------------------------|------------|
|                |   | 125            | 250  | 500  | 1000 | 2000 | 4000 |      |      |                           |            |
| R2.0 (HP) 75mm | 0.35  | 0.35           | 0.90 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.01 | 9880                      | 1.00       |
| R2.0 90mm      | 0.35  | 0.35           | 0.80 | 1.00 | 0.95 | 1.00 | 1.00 | 0.95 | 0.94 | 4839                      | 1.00       |
| R2.2 (HP) 75mm | 0.50  | 0.50           | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.10 | 1.09 | 20240                     | 1.00       |
| R2.2 90mm      | 0.45  | 0.45           | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.10 | 1.06 | 5256                      | 1.00       |
| R2.5 (HP) 90mm | 0.45  | 0.45           | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.10 | 1.07 | 10489                     | 1.00       |
| R2.7 (HP) 90mm | 0.60  | 0.60           | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.15 | 1.12 | 23989                     | 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 [csrbradford.com.au](http://csrbradford.com.au) for more information.



**National Asthma Council Sensitive Choice**