

Bradford Optimo®

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

Issue I

Product Type & Application

Bradford Optimo® is a semi-rigid Glasswool thermal insulation product. It is for use in suspended floors to reduce heat transfer through the building envelope. The products have a CodeMark® Certificate of Conformity for NCC 2022 Volume 2 and the ABCB Housing Provisions Standard.

Compliance with the NCC

For use in Australia, when correctly specified and installed, this product:

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.
- **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 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.
- **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.

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.
- **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.

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.
- 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.
- Do not cover ventilation openings during installation.

For general installation guidance refer to the product installation guide at csrbradford.com.au

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

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 for more information.

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Evidence of Suitability

- Testing to AS/NZS 4859.1 at 23°C across the following reports-
 - CodeMark® Certificate of Conformity CM20331 for NCC 2022 Volume 2 and the ABCB Housing Provisions Standard
 - CSR NATA Lab NATA Report NR-23107.
- Professional Assessment, AS/NZS 1530.3 -
 - CSIRO NATA Assessment FCO-3620.

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 material is not classified as non-combustible in accordance with AS1530.1 and is not suitable for use where non-combustible material is required.
- Not to be used as wall or ceiling insulation.
- Maximum service temperature is 150°C for Glasswool.
- 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.

Applicable Product Codes

R-VALUE [m ² K/W]	THICKNESS [mm]	STANDARD SIZE [mm]	PIECES PER PACK	m ² PER PACK	COVERAGE PER PACK [m ²]~	PRODUCT CODE
R2.5	90	1160 x 415	8	3.9	4.2	114650
R2.5	90	1160 x 565	8	5.2	5.6	114692

~Based on a batt between 35mm joist framing, without accounting for any intermediate framing members. Where required by Standards and Codes, removal of insulation around electrical equipment or flues etc must be considered separately, and compensated for adequately.

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

Different standard sizes are available for each R-value to fit between 450mm or 600mm joist spacings.

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Additional Product Data

Maximum Service Temperature		150°C (suitable where a long term surface operating temperature $\geq 90^{\circ}\text{C}$ is required for insulation around heat generating equipment.)
Fire Hazard Properties	When assessed in accordance with AS/NZS 1530.3	• Spread of Flame: 0 • Smoke Developed: 1
Sample Specification	The insulation material shall be Bradford Optimo having a material R-Value; R_m(specify R-Value) @ XXmm....(specify thickness) having nominal density YYkg/m ³(specify density). For installation specifications refer to the back of pack or the install guide.	

Other Accreditation



CodeMark® Certificate of Conformity CM20331 for NCC 2022 Volume 2 and the ABCB Housing Provisions Standard.



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 for more information.**



National Asthma Council Sensitive Choice