Bradford™ SAINT-GOBAIN

NZ

Product Technical Statement

Bradford Gold® & Gold Hi-Performance

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

Issue **G, 10/2025**

Product Type & Application

Bradford Gold® and Gold Hi-Performance (HP) are Glasswool thermal insulation products. They are for use in external walls and ceilings to reduce heat transfer through the building envelope.

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 **-** Bradford Gold® and Gold Hi-Performance (HP) products listed in this PTS exceed R1.5 as in Acceptable Solution E3/AS1 and contribute to compliance with E3.3.1
- **F2 Hazardous building materials** F2.3.1 - Bradford Gold® and Gold Hi-Performance (HP) do not emit or give rise to harmful concentrations of gas, liquid, radiation or solid particles.
- **H1 Energy Efficiency** H1.3.1(a), H1.3.2E - Bradford Gold® and Gold Hi-Performance (HP) 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.

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:** R2.6, R2.8, 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 NZBC clause C3.4(c).
- 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 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 batts.

Limitations of Use cont.

- This product is not subject to any warning or ban declared by MBIE under section 26 of the Building Act 2004.

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:** R2.6, R2.8, 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.
- 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.
- 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.
- Suitable for interior 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.co.nz

Product installation information - Additional installation guidance for this product can be found in NZS 4246:2016.

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.

CSR

Bradford Gold® & Gold Hi-Performance

Basis of Compliance

- BRANZ Appraisal 301.
- Testing to AS/NZS 4859.1 across the following reports-
  - BRANZ Report DI11505-002-02
  - BRANZ Report DI12309-001-02
  - BRANZ Report DI13245-001-02
  - BRANZ Report DI16104-01
  - BRANZ Report DI16104-03
  - BRANZ Report DI16104-11
  - BRANZ Report DI16104-17
  - BRANZ Report DI16104-18
  - BRANZ Report TP13869-003-01
  - BRANZ Report TP13869-004-01
  - BRANZ Report TP13869-005-01
  - BRANZ Report TP13869-011
  - BRANZ Report TP13869-012
  - BRANZ Report TP13869-016
  - BRANZ Report TP13869-017
- 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 SDS CSR-SHE-Glasswool Issued 22nd October 2025.

Bradford NZ, 14 The Furlong, Takanini, Auckland For further technical advice call 0800 277 123/ visit bradfordinsulation.co.nz/ email bradford@csr.co.nz
Bradford NZ is a business division of CSR Building Products (NZ) Limited (NZBN 9429040750194)

Bradford Gold® & Gold Hi-Performance

Applicable Product Codes – Ceiling Products

R-VALUE (m^2K/W)	THICKNESS (mm)	STANDARD SIZE (mm)	PIECES PER PACK	m^2 PER PACK	PRODUCT CODE
R1.8	90	1160 x 430	22	11.0	480025
R1.8	95	1160 x 430	24	11.9	38199
R2.9	145	1160 x 430	20	10.0	468022
R3.3	165	1160 x 430	16	8.0	468023
R3.6	185	1160 x 430	16	8.0	474662
R4.0	215	1160 x 430	12	6.0	84834
R5.2 (HP)	240	1160 x 430	8	4.0	474661
R6.3 (HP)	260	1160 x 430	6	3.0	480048
R7.3 (HP)	290	1160 x 430	4	2.0	480049
R7.3 (HP)	290	1160 x 450	4	2.1	483801

Material R-values are determined in accordance with AS/NZS 4859.1 at 15°C and apply to the product installed at nominal thickness.

Applicable Product Codes – Wall Products

R-VALUE [m^2K/W]	THICKNESS [mm]	STANDARD SIZE [mm]	PIECES PER PACK	m^2 PER PACK	PRODUCT CODE
R1.8	90	1160 x 580	22	14.8	84836
R2.2	90	1160 x 580	16	10.8	84838
R2.4	90	1160 x 580	10	6.7	104734
R2.6	90	1160 x 580	8	5.4	86961
R2.8	90	1160 x 580	5	3.4	118544
R3.5	140	1160 x 580	10	6.7	126862
R4.0 (HP)	140	1160 x 580	5	3.4	125449

Material R-values are determined in accordance with AS/NZS 4859.1 at 15°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.)
Sample Specification – Wall Products	The insulation material shall be Bradford Gold® or Bradford Gold® Hi-Performance having a material R-Value; Rm...(specify R-Value) @ XXmm... (specify thickness).	
Sample Specification – Ceiling Products	The insulation material shall be Bradford Gold® or Bradford Gold® Hi-Performance Ceiling Batts R ___ m2 K/W (specify type) as manufactured by Bradford Insulation.	

Bradford Gold® & Gold Hi-Performance

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 (α_p)	Frequency [Hz]									
			125	250	500	1000	2000	4000	NRC	SAA	Flow Resistivity [Rayl/m]	α_w
Gold Wall Batts	R2.2 90mm		0.40	0.85	1.00	1.00	1.00	1.00	1.00			1.00
	R2.6 90mm		0.55	1.00	1.00	1.00	1.00	1.00	1.10			1.00
Gold Ceiling Batts	R5.2 (HP) 240mm		0.90	1.00	0.95	1.00	1.00	1.00	1.00	1.01	3133	1.00
	R7.3 (HP) 290mm		1.00	1.00	1.00	1.00	1.00	1.00	1.05	1.06	4128	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 Bradfordinsulation.com.au for more information.

National Asthma Council Sensitive Choice