

Quietel® HVAC Board

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

Issue C

Product Type & Application

Quietel® is a high density Glasswool board. It provides thermal resistance, acoustic properties, and compressive resistance. Quietel® is primarily intended for use as insulation for HVAC or commercial applications.

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.
- **Fire Hazard Properties** - Meets the requirements of the NCC 2022 Volume 1 S7C5 for Air Handling Ductwork and 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 S7C5 or 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. The 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 5 for Air Handling Ductwork and 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 5 or 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. Store in the original packaging in a cool, dry area, removed from UV light (direct sunlight).

Refer to the product SDS at 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.
- 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.
- This product does not meet the non-combustibility or fusion temperature requirements of AS 1668.1 – The use of ventilation and air conditioning in buildings, 2.3.2.
- 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.

Evidence of Suitability

- Testing to AS/NZS 4859.1 at 23°C across the following reports -
 - CSR Lab Report R-23006.
 - CSR Lab Report R-23007.
- Professional Assessment, AS/NZS 1530.3 -
 - Warringtonfire Assessment FAS200045.

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.
- Suitable for applications where the product is protected from direct UV light, water and wind pressure during and after installation. Do not allow insulation to get wet after installation.
- Refer to AS 4254.1 or AS 4254.2 for installation requirements for air handling ductwork.

For general installation guidance refer to the product information on Bradfordinsulation.com.au

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Applicable Product Codes

R-VALUE [m ² K/W]	THICKNESS [mm]	NOMINAL LENGTH [m]	NOMINAL WIDTH [mm]	PIECES PER PACK	m ² PER PIECE	PRODUCT CODE
R0.3	13	2.4	600	8	11.52	15613
R0.75	25	2.4	1200	2	5.76	15273 ^a

^a 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
Nominal Density		130 kg/m ³
Fire Hazard Properties	When assessed in accordance with AS/NZS 1530.3	<ul style="list-style-type: none"> • Ignitability: 0 • Spread of flame: 0 • Heat Evolved: 0 • Smoke Developed: 1

Acoustic Performance

Sound absorption results tested in accordance with AS/ISO 354-2006 and NRC rated using ASTM C423-90A, Flow Resistivity tested in accordance with ASTM C522-03.

Product	Thickness [mm]	Practical Sound Absorption Coefficient (α_p)	Frequency [Hz]						NRC	Flow Resistivity [Rayl/m]	α_w
			125	250	500	1000	2000	4000			
Quietel R0.3	13mm	0.0	0.05	0.30	0.65	0.85	0.90	0.45		0.3 (M,H)	
Quietel R0.75	25mm	0.1	0.45	0.85	0.95	0.95	0.95	0.80	88650	0.75 (H)	

The practical sound absorption coefficient is determined as per AS/ISO 11654-1997.

The weighted sound absorption coefficient is determined as per AS/ISO 11654-1997.

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.