

Exetel HVAC Boards

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

Issue **D, 11/2024**

Product Type & Application

Exetel HVAC Boards are high-density Glasswool insulation. They are available faced with Black Matt Facing (BMF) bonded to one side. Exetel HVAC Boards provide thermal resistance and are primarily intended for use as internal insulation for HVAC rigid ducts in commercial applications.

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.
- **C3 Fire affecting areas beyond the fire source** C3.4(a) - Exetel HVAC Boards have an assigned Group Number of 1-S as provided for in Acceptable Solution C/AS2 Table 4.4 and AS 4254 established by fire hazard properties tested to AS/NZS1530.3 and UL-181.
- **F2 Hazardous building materials** F2.3.1 - Exetel HVAC Boards do not emit or give rise to harmful concentrations of gas, liquid, radiation or solid particles.
- **H1 Energy Efficiency** H1.3.6 - Exetel HVAC Boards have been tested to AS/NZS 4859.1 and meet the minimum insulation R-values specified in Verification Method H1/VM3 Table 5.2.1.1.

Limitations of Use

- **IMPORTANT:** Compliance with the evidence of suitability data referenced in this document is only achieved when this product is produced at a CSR approved facility, in accordance with CSR specifications and approved materials.
- 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.
- These products are not suitable for use as an exposed wall or ceiling lining in applications which require a Group Number in accordance with building code clause C3.4(a).
- BMF 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, 70°C for faced Glasswool.
- 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.
- Suitable for interior applications where the product is protected from UV light, water and wind pressure during and after installation.
- Stated thermal performance is based on the insulation blanket or board only - reflective R-values are construction-dependent upon the adjacent airgap and must be determined in accordance with AS/NZS4859.2.
- 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.co.nz

Basis of Compliance

- Testing to AS/NZS 4859.1 across the following reports apply to the unfaced board -
 - AWTA NATA Lab Report 22-003682
 - CSR Lab Report R-22016
- Professional Assessment, AS/NZS 1530.3 -
 - Warringtonfire Fire Assessment Report FAS200045.
- Professional Assessment, UL-181 -
 - Warringtonfire Fire Assessment Report FAS200051.
- C/AS2 Acceptable Solution for Buildings other than Risk Group SH for New Zealand Building Code Clauses C1-C6 Protection from Fire First edition (Amendment 3), 2 November 2023.
- H1 Energy Efficiency, Verification Method H1/VM3, Energy efficiency of HVAC systems in commercial buildings, First edition Amendment 1, 29 November 2021.
- Bradford SDS CSR-SHE-Glasswool Issued 24th September 2024.

Conditions of Storage & 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.
- Do not pressure clean or use mineral-based cleaners on the facing product.

Refer to the product SDS at Bradfordinsulation.com.au for more information.

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Applicable Product Codes

BASE BOARD R-VALUE [m ² K/W]	THICKNESS [mm]	NOMINAL LENGTH [m]	NOMINAL WIDTH [mm]	PIECES PER PACK	m ² PER PACK	PRODUCT CODE
BLACK MATT FACING (BMF)						
R2.85	100	2.4	1200	2	5.8	17705

R-values apply to the unfaced board installed at nominal thickness.

Additional Product Data

Maximum Service Temperature		<ul style="list-style-type: none"> • 150°C for Unfaced Glasswool • 70°C for Faced Glasswool
Fire Hazard Properties	When assessed in accordance with AS/NZS 1530.3	BMF Faced Board: <ul style="list-style-type: none"> • Ignitability: 18 • Spread of flame: 0 • Heat Evolved: 0 • Smoke Developed: 3
UL-181 Burning Test	Insulation 100mm thick was assessed in a representative duct section to UL-181's Burning Test, as an indication of how it will perform when the assembled duct undergoes the test. AS 4254.1 and AS 4254.2 require the full duct assembly to be tested to UL 181. Insulation satisfies criteria as an indicative test only – specific testing of the final assembly is necessary for the duct to meet Australian Standards requirements.	

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.