Bradford™ SAINT-GOBAIN

Product Technical Statement

Multitel® HVAC Blanket

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

Issue **G**

Product Type & Application

Multitel® is a low density, lightweight Glasswool blanket providing thermal resistance. Multitel® is primarily intended for use as external HVAC duct wrap for commercial applications. It can also be used to supplement internal ductwork insulation to achieve higher R-values.

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 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 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).
- The facing product should not come into contact with wet concrete, or alkaline materials.
- 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.

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.
- **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 is 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).
- 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, 70°C for faced Glasswool.
- The foil facing product should not come into contact with wet concrete, or alkaline materials.
- When faced with a foil material, this product is not suitable for use within 500m of a saltwater body in an unenclosed, ventilated space.

Evidence of Suitability

- Testing to AS/NZS 4859.1 at 23°C across the following reports apply to the unfaced blanket -
  - CSR Lab Report R-23032.
  - CSR NATA Lab Report NR-23102.
  - CSR NATA Lab Report NR-23103.
  - CSR NATA Lab Report NR-23111.
  - CSR NATA Lab Report NR-23112.
- Professional Assessment, AS/NZS 1530.3 -
  - CSIRO NATA Assessment FCO-3620.
- Professional Assessment, UL 181.11 -
  - Warringtonfire Assessment FAS200051.

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Specific Design or Installation Instructions

- Isolate power before installation.
- **WARNING:** Products faced with aluminium foil conduct electricity. To avoid electrocution, care should be taken to ensure that this product or conductive fasteners used to secure this product, do not come into contact or close proximity with electrical wiring during installation or use.
- **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 direct UV light, water and wind pressure during and 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

Applicable Product Codes

R-VALUE [m^2K/W]	THICKNESS [mm]	NOMINAL LENGTH [m]	NOMINAL WIDTH [mm]	m^2 PER ROLL	PRODUCT CODE
PLAIN					
R2.0	75	12	1200	14.4	100063^
MEDIUM DUTY FACING (1500mm)					
R0.6	25	15	1380	20.7	16147
R1.0	38	15	1380	20.7	78288
R1.3	50	10	1380	13.8	81581^
R1.5	55	10	1380	13.8	91312
R2.0	75	7.5	1380	10.3	81583^
HEAVY DUTY FACING (1350mm)					
R0.6	25	20	1200	24	95568
R1.0	38	15	1200	18	77852
R1.3	50	10	1200	12	15587
R1.5	55	10	1200	12	77851
R2.0	75	10	1200	12	29175
R2.0	75	7.5	1500	11.2	102033

Material R-values are determined in accordance with AS/NZS 4859.1 at 23°C. The contribution of the reflective air-gap is construction dependant and excluded from the declared R-value. The duty classification of the facing material does not influence the R-value.
^ AS/NZS 1530.3 Test Report available.

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Additional Product Data

Maximum Service Temperature		• 150°C for Unfaced Glasswool • 70°C for Faced Glasswool
Nominal Density		18 kg/m^3
Fire Hazard Properties	When assessed in accordance with AS/NZS 1530.3	**Plain (Unfaced) Blanket:** • Spread of flame: 0 • Smoke Developed: 1 **Medium and Heavy Duty Faced Blanket:** • Spread of flame: 0 • Smoke Developed: 3
UL-181 Burning Test	Insulation 25-75mm 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. (NCC 2019 Volume 1 Amend. 1, Specification C1.10 Clause 5, NCC 2022 Volume 1 Amend. 2 S7C5). Insulation satisfies criteria as an indicative test only – specific testing of the final assembly is necessary for the duct to meet Australian Standard 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.