



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

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Product Type & Application

Supertel HVAC Boards are high-density Glasswool insulation. They are available plain (unfaced) or faced with materials of various properties bonded to one side. Supertel HVAC Boards provide thermal resistance and acoustic properties, and are primarily intended for use as internal insulation for HVAC rigid ducts in commercial applications. For the properties of Supertel HVAC Blankets or Soffit Boards, refer to their separate Product Technical Statements.

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.
- <u>Fire Hazard Properties</u> 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

- <u>Thermal</u> 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 & 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 SUIS/MSDS 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 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 unfaced Glasswool, 70°C for faced Glasswool.

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

Evidence of Suitability

- Testing to AS/NZS 4859.1 at 23°C across the following reports apply to the unfaced board -
 - CSR Lab Report R-20012.
- CSR Lab Report R-20013.
- CSR Lab Report R-20056.
- CSR Lab Report R-23008.
- CSR NATA Lab Report NR-21113.
- Professional Assessment, AS/NZS 1530.3 -
 - Warringtonfire Assessment FAS200045.
- Professional Assessment, UL 181.11 -
- Warringtonfire Assessment FAS200051.





Specific Design or Installation Instructions

- Isolate power before installation.
- WARNING: This product contains aluminium foil which conducts 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 applications where the product is protected from direct 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.com.au

Applicable Product Codes

BASE BOARD R-VALUE [m ² K/W]	THICKNESS [mm]	NOMINAL LENGTH [m]	NOMINAL WIDTH [mm]	PIECES PER PACK	m² PER PACK	PRODUCT CODE		
PLAIN								
R0.7	25	2.4	1200	10	28.8	15311		
R0.7	25	3.0	1500	6	27	77921		
R0.7	25	2.4	1500	10	36	15714		
R1.5	50	2.4	1200	5	14.4	15332		
R1.5	50	2.4	1500	5	18	15709		
R1.5	50	3.0	1500	3	13.5	77931		
R2.2	75	2.4	1200	3	8.6	15282		
R2.2	75	2.4	1500	2	7.2	30493		
R3.0	100	2.4	1200	2	5.8	15371		
R3.0	100	2.4	1500	2	7.2	17454		
BLACK MATT F	ACING (BMF)							
R0.7	25	2.4	1200	10	28.8	15326		
R0.7	25	2.4	1500	10	36	74995		
R1.5	50	2.4	1200	5	14.4	15292		
R1.5	50	2.4	1500	5	18	74996		
R2.2	75	2.4	1200	3	8.6	15285		

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.





Applicable Product Codes cont.

BASE BOARD R-VALUE [m²K/W]	THICKNESS [mm]	NOMINAL LENGTH [m]	NOMINAL WIDTH [mm]	PIECES PER PACK	m ² PER PACK	PRODUCT CODE		
ACOUSTITUFF® FACING								
R0.7	25	2.4	1200	10	28.8	15676		
R0.7	25	2.4	1500	6	21.6	85421		
R0.7	25	3.0	1500	6	27	94106		
R1.5	50	2.4	1200	5	14.4	16214^		
R1.5	50	2.4	1500	3	10.8	30501^		
R1.5	50	3.0	1500	3	13.5	94108^		
R2.2	75	2.4	1200	3	8.6	97338		
R2.2	75	2.4	1500	2	7.2	111108		
R2.2	75	3.0	1500	2	9	123553		
R3.0	100	2.4	1500	2	7.2	113211		
ULTRAPHON FA	CING							
R1.5	50	2.4	1500	5	18	15496		
R2.2	75	2.4	1500	2	7.2	104206		
R3.0	100	2.4	1500	2	7.2	104207		
HEAVY DUTY PE	RFORATED FACI	NG (HDP)						
R0.7	25	2.4	1200	10	28.8	15281		
R0.7	25	2.4	1500	6	21.6	15276		
R0.7	25	3.0	1500	6	27	77922		
R1.5	50	2.4	1200	5	14.4	15302^		
R1.5	50	2.4	1500	3	10.8	15362^		
R1.5	50	3.0	1500	3	13.5	77932^		
R2.0	67	2.4	1500	3	10.8	115203		
R2.0	67	3.0	1500	2	9	170225		
R2.2	75	2.4	1200	3	8.6	15268		
R2.2	75	2.4	1500	2	7.2	88665		
R2.2	75	3.0	1500	2	9	104210		
R3.0	100	2.4	1500	2	7.2	17684		

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.





Additional Product Data

Maximum Service Temperature		150°C for Unfaced Glasswool 70°C for Faced Glasswool				
Volatile Organic Compound (VOC) and Formaldehyde Emissions	When tested in accordance with ASTM D5116	VOC 0.15 mg/m²/hr Formaldehyde 0.03 mg/m²/h				
Fire Hazard Properties	When assessed in accordance with AS/NZS 1530.3	Plain (Unfaced) Board: Ignitability: 0 • Spread of flame: 0 Heat Evolved: 0 • Smoke Developed: 1 BMF Faced Board: Ignitability: 18 • Spread of flame: 0 Heat Evolved: 0 • Smoke Developed: 3 Acoustituff® Faced Board: Ignitability: 0 • Spread of flame: 0 Heat Evolved: 0 • Smoke Developed: 1 Ultraphon® Faced Blanket: Ignitability: 0 • Spread of flame: 0 Heat Evolved: 0 • Smoke Developed: 3 Heavy Duty Perforated Faced Board: Ignitability: 0 • Spread of flame: 0 Heat Evolved: 0 • Smoke Developed: 3 Heavy Duty Perforated Faced Board: Ignitability: 0 • Spread of flame: 0 Heat Evolved: 0 • Smoke Developed: 3				
UL-181 Burning Test	Insulation 25-100mm 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. (NCC 2019 Volume 1 Amend. 1, Specification C1.10 Clause 5, NCC 2022 Volume 1 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.					

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 C522-87.

			Frequency [Hz]								
Product	Thickness [mm]		125	250	500	1000	2000	4000	NRC	Flow Resistivity [Rayl/m]	αw
Plain	50mm		0.2	0.6	1.0	1.0	1.0	1.0	0.95	17300	0.9
Supertel (Unfaced)	75mm		0.35	1.0	1.0	1.0	1.0	1.0	1.05	19900	1.0
	100mm		0.5	1.0	1.0	1.0	1.0	1.0	1.15	20100	1.0
Supertel with BMF Facing	50mm		0.15	0.55	1.0	1.0	1.0	1.0	0.95		0.85(H)
	75mm	Practical	0.35	1.0	1.0	1.0	1.0	1.0	1.05	21700	1.0
Compared or its	40mm	Sound Absorption Coefficient (α _P)	0.2	0.75	1.0	0.8	0.45	0.25	8.0		0.45(LM)
Supertel with Acoustituff®	50mm		0.25	0.85	1.0	0.9	0.55	0.3	0.85		0.4(LM)
	75mm		0.5	1.0	1.0	0.85	0.55	0.3	0.95		0.5(LM)
Facing	100mm		0.75	1.0	1.0	0.85	0.55	0.3	0.9		0.5(LM)
Supertel with Ultraphon® Facing	50mm		0.2	0.65	1.0	1.0	1.0	1.0	1.0	23400	0.95
	75mm		0.35	1.0	1.0	1.0	1.0	1.0	1.0	21600	1.0
Supertel with HDP Facing	25mm		0.1	0.3	0.7	0.9	1.0	0.85	0.75		0.6(MH)
	40mm		0.1	0.5	1.0	1.0	1.0	0.9	0.9		0.8
	50mm		0.2	0.75	1.0	1.0	1.0	0.95	1.0		1.0
	75mm		0.4	1.0	1.0	1.0	1.0	0.9	1.10	44600	1.0

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.

CSR Bradford Locked Bag 1345 North Ryde BC NSW 1670 csrbradford.com.au

For further technical advice

call 1300 850 305 or visit csrbradford.com.au







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 SUIS/MSDS at Bradfordinsulation.com.au for more information.

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