

Supertel Soffit Boards

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

Issue **G**

Product Type & Application

Supertel Soffit Boards are high-density Glasswool insulation. They are available faced with Heavy Duty Foil material. Supertel Soffit Boards provide thermal resistance and acoustic properties, and are primarily intended for use as wall and ceiling linings in commercial applications. For the properties of Supertel HVAC Boards and Blankets, 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.
- **Fire Hazard Properties** - Achieves a Group Number of 1 and $SMOGR_{RC} > 100 \text{ m}^2/\text{s}^2 \times 1000$ for all thicknesses, in accordance with AS ISO 9705 and AS 5637.1. It may be used as an exposed wall or ceiling lining where specified by the NCC 2022 Volume 1 S7C4.
- **Fire Hazard Properties** - Meets the requirements of the NCC 2022 Volume 1, 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 Table S7C7.
- **Weatherproofing and Condensation Control** - Facing material only meets the requirements of the NCC 2022 Volume 1 F3D3 and all State-prescribed variations, through compliance with AS/NZS 4200.1.

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** - Achieves a Group Number of 1 and $SMOGR_{RC} > 100 \text{ m}^2/\text{s}^2 \times 1000$ for all thicknesses, in accordance with AS ISO 9705 and AS 5637.1. It may be used as an exposed wall or ceiling lining where specified by the NCC 2019 Volume 1 Amend. 1, Specification C1.10 Clause 4.
- **Fire Hazard Properties** - Meets the requirements of the NCC 2019 Volume 1 Amend. 1, Specification C1.10 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 7.

Compliance with the NCC cont.

- **Weatherproofing and Condensation Control** - Facing material only meets the requirements of the NCC 2019 Volume 1 Amend. 1 F1.6 and all State-prescribed variations, through compliance with AS/NZS 4200.1.

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:** 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.
- Not suitable for use in buildings not fitted with a sprinkler system, as the smoke growth rate index ($SMOGR_{RC}$) is $> 100 \text{ m}^2/\text{s}^2 \times 1000$ (NCC 2019 Volume 1 Amend 1., Specification C1.10, 4a, NCC 2022 Volume 1 S7C4(1)).
- Group number and $SMOGR_{RC}$ ratings only apply when installation requirements listed under 'Specific Design or Installation Instructions' are met.
- Maximum service temperature is 150°C for unfaced Glasswool, 70°C for faced Glasswool.
- This product is not suitable for installation in underslab concrete roof applications within a conditioned space where there is a risk of moisture transfer through the unfaced edges.
- The facing product should not come into contact with wet concrete, or alkaline materials.

Supertel Soffit Boards

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-20059.
- Professional Assessment, AS/NZS 1530.3 -
 - Warringtonfire FAS200045.
- Professional Assessment, AS ISO 9705 and AS 5637.1 –
 - CSIRO Assessment FCO-3029.
- Testing to AS/NZS 4200.1 across the following reports apply to the **Heavy Duty** facing product -
 - AWTA Report 16-005482 – *Resistance to Dry Delamination.*
 - AWTA Report 16-005482 – *Resistance to Wet Delamination.*
 - AWTA Report 16-005482 – *Moisture Shrinkage.*
 - Orora Report 24133 – *Folding Endurance.*
 - AWTA NATA Report 24-003454 – *Tensile Strength.*
 - AWTA NATA Report 24-003454 – *Edge Tearing.*
 - R&D Services Report RD16659 – *Emission Classification.*
 - R&D Services Report RD19028-R3 – *Vapour Control Classification.*
 - AWTA Report 7-542982-NV – *Water Control Classification.*
 - Opal Research & Technology 28401 – *Air Barrier Classification.*
 - CSR Lab NATA Report NR-17213 – *Flammability Classification.*
 - CSR Lab Report R-20078 – *Thickness.*

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.
- 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.

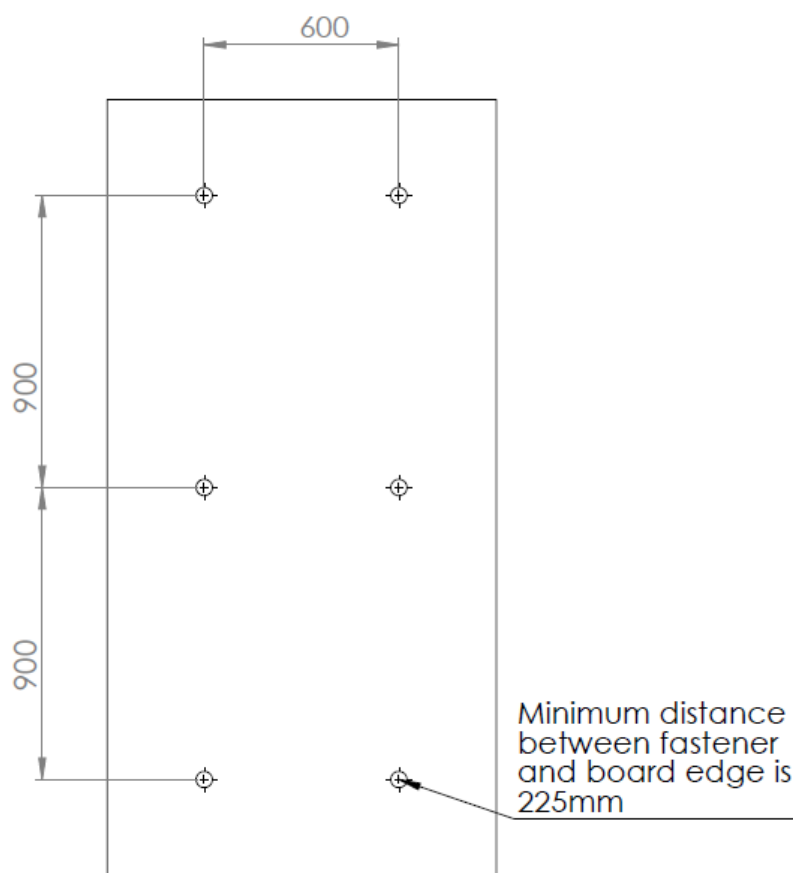
Specific Design or Installation Instructions

- 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.
- To create an air, water, or vapour barrier install in accordance with the NCC and AS 4200.2.
- To maintain the water barrier properties of the facing material it should not be punctured, creased, crushed, sharply folded or dragged over the building structure during installation.
- **Condensation Risk Consideration:** To act as a vapour barrier for the control of condensation this product needs to be sealed in NCC Climate Zones 2-8 to reduce the risk of condensation entrapment within the structure. As there are many factors which can influence condensation risk it is highly recommended that designers undertake a hygrothermal analysis to further reduce condensation risk.
- 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.
- Bulk insulation must be installed so that it maintains its position and thickness, other than where it crosses water pipes, electrical cabling or the like, or roof battens in Class 1 and 10 buildings, cladding and supporting members in Class 2-9 buildings, or where accounted for elsewhere.
- Stated thermal performance is based on bulk insulation only. The effects of thermal bridging and any added reflective R-value contributions are construction dependent and must be determined in the accordance with AS/NZS 4859.2.
- Suitable for underslab concrete roof/soffit applications in unconditioned spaces.
- Suitable for applications where the product is protected from direct UV light, water and wind pressure during and after installation.
- Panel butt joints must be taped, corner joints do not require taping.

Supertel Soffit Boards

Specific Design or Installation Instructions cont.

- The board must be pinned in 6 places, spaced not larger than a 600mm x 900mm grid using Hilti X-IE Fasteners, or metal speed clips, or with screws and washers.



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

Supplementary information - Additional installation guidance for this product can be found in AS3999.

Applicable Product Codes

R-VALUE [m ² K/W]	THICKNESS [mm]	NOMINAL LENGTH [m]	NOMINAL WIDTH [mm]	PIECES PER PACK	m ² PER PACK	PRODUCT CODE
HEAVY DUTY FACING (HD)						
R0.7	25	2.4	1200	10	28.8	17560
R1.5	50	2.4	1500	3	10.8	27723
R2.2	75	2.4	1200	3	8.6	27364
R3.0	100	2.4	1200	2	5.8	79151

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.

Supertel Soffit Boards

Additional Product Data

Maximum Service Temperature		<ul style="list-style-type: none"> • 150°C for Unfaced Glasswool • 70°C for Faced Glasswool
Nominal Density		32 kg/m ³
Volatile Organic Compound (VOC) and Formaldehyde Emissions	When tested in accordance with ASTM D5116	<ul style="list-style-type: none"> • VOC 0.15 mg/m²/hr • Formaldehyde 0.03 mg/m²/h
Fire Hazard Properties	When assessed in accordance with AS/NZS 1530.3	Heavy Duty Faced Board: <ul style="list-style-type: none"> • Ignitability: 0 • Spread of flame: 0 • Heat Evolved: 0 • Smoke Developed: 0-1

Acoustic Performance – Sound from the Foil Side

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 (α_p) and weighted sound absorption coefficient (α_w) are determined as per AS/ISO 11654-2002 [R2016].

Product	Thickness [mm]	Practical Sound Absorption Coefficient (α_p)	Frequency [Hz]						NRC	SAA	α_w
			125	250	500	1000	2000	4000			
Supertel Soffit Boards with Heavy Duty Facing	50		0.30	1.00	0.85	0.40	0.15	0.05	0.65	0.63	0.20 (LM)
	75		0.60	1.00	0.75	0.40	0.15	0.05	0.65	0.63	0.20 (LM)
	100		0.85	1.00	0.65	0.35	0.15	0.10	0.55	0.55	0.20 (LM)

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.