Bradford™ SAINT-GOBAIN

Product Technical Statement

Supertel Soffit Boards

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

Product Type & Application

Supertel Soffit Boards are high-density Glasswool insulation. They are available faced with Heavy Duty Foil or Heavy Duty Perforated 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 2025

- **Thermal** - Complies with NCC 2025 Volume 1 J4D3(1) and ABCB Housing Provisions Standard 2025 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 $SMOGRA_{RC}$ ≤100 m^2/s^2 x 1000 for thicknesses up to 75mm, $SMOGRA_{RC}$ >100 m^2/s^2 x 1000 for thicknesses greater than 75mm, 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 2025 Volume 1 S7C4.
- **Fire Hazard Properties** - Meets the requirements of the NCC 2025 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 2025 Volume 1 F1D13 and all State-prescribed variations, through compliance with AS 4200.1.

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** - Achieves a Group Number of 1 and $SMOGRA_{RC}$ ≤100 m^2/s^2 x 1000 for thicknesses up to 75mm, $SMOGRA_{RC}$ >100 m^2/s^2 x 1000 for thicknesses greater than 75mm, 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 Amend. 2 S7C4.
- **Fire Hazard Properties** - Meets the requirements of the NCC 2022 Volume 1 Amend. 2, 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.

Compliance with the NCC cont.

NCC 2022 cont.

- **Weatherproofing and Condensation Control –** Heavy Duty Facing material only meets the requirements of the NCC 2022 Volume 1 Amend. 2 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 $SMOGRA_{RC}$ ≤100 m^2/s^2 x 1000 for thicknesses up to 75mm, $SMOGRA_{RC}$ >100 m^2/s^2 x 1000 for thicknesses greater than 75mm, 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.
- **Weatherproofing and Condensation Control** – Heavy Duty 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.

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 csrbradford.com.au for more information.

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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 NATA Lab Report NR-21113.
- Professional Assessment, AS/NZS 1530.3 -
  - CSIRO NATA Assessment FCO-3620.
- Professional Assessment, AS ISO 9705 and AS 5637.1 –
  - BRANZ Assessment FC11516.
- 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 – *Emittance 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.*
- Testing to AS/NZS 4200.1 across the following reports apply to the ***Heavy Duty Perforated*** facing product -
  - AWTA Report 16-005480 – *Resistance to Dry Delamination.*
  - AWTA Report 16-005480 – *Resistance to Wet Delamination.*
  - AWTA Report 16-005480 – *Moisture Shrinkage.*
  - AWTA NATA Report 16-005482 – *Tensile Strength before perforation.*
  - AWTA NATA Report 16-005482 – *Edge Tearing before perforation.*
  - CSR Lab NATA Report NR-16208 – *Flammability Classification.*
  - CSR Lab Report R-20078 - *Thickness*

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.
- 100mm thick product not suitable for use in buildings not fitted with a sprinkler system, as the smoke growth rate index ($SMOGRA_{RC}$) is >100 m^2/s^2 x 1000 (NCC 2019 Volume 1 Amend. 1, Specification C1.10, 4a, NCC 2022 Volume 1 Amend. 2 S7C4(1), NCC 2025 S7C4(1)).
- Group number and $SMOGRA_{RC}$ 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.
- This product is not suitable for use within 500m of a saltwater body in an unenclosed, ventilated space.

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 Heavy Duty 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 the Heavy Duty Facing 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.

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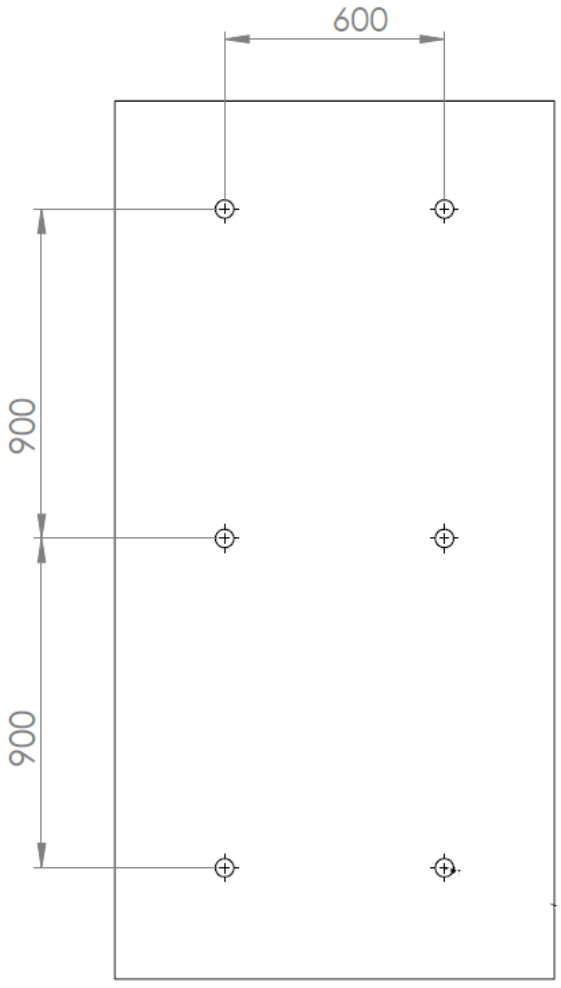
Specific Design or Installation Instructions cont.

- 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.
- Lap joints in the facing may be taped or left un-taped depending upon the application requirements.
- The product may be supported by safety mesh in the installation, as long as the mesh can support it under ambient conditions.

- 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 csrbradford.com.au

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

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Applicable Product Codes

R-VALUE [m²K/W]	THICKNESS [mm]	NOMINAL LENGTH [m]	NOMINAL WIDTH [mm]	PIECES PER PACK	m² 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
HEAVY DUTY PERFORATED FACING (HDP)						
R0.7	25	2.4	1200	10	28.8	15281
R0.7	25	2.4	1500	6	21.6	15276
R1.5	50	2.4	1200	5	14.4	15302^
R1.5	50	2.4	1500	3	10.8	15362^
R2.2	75	2.4	1200	3	8.6	15268^
R2.2	75	2.4	1500	2	7.2	88665^
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
Nominal Density		32 kg/m³
Volatile Organic Compound (VOC) and Formaldehyde Emissions	When tested in accordance with ASTM D5116	**Heavy Duty Faced Board:** • 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:** • Spread of flame: 0 • Smoke Developed: 3 **Heavy Duty Perforated Faced Board:** • Spread of flame: 0 • Smoke Developed: 3

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].

			Frequency [Hz]									
Product	**Thickness [mm]**	**Practical Sound Absorption Coefficient (α_p)**	**125**	**250**	**500**	**1000**	**2000**	**4000**	**NRC**	**SAA**	**Flow Resistivity [Rayl/m]**	**α_w**
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)
Supertel with HDP Facing	25		0.10	0.30	0.70	0.90	1.00	0.85	0.75		24960	0.6(MH)
	50		0.20	0.75	1.00	1.00	1.00	0.95	1.00		18100	1.00
	75		0.40	1.00	1.00	1.00	1.00	0.90	1.10		44600	1.00

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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 csrbradford.com.au for more information.