Bradford™

Product **Technical** Statement

Supertel Soffit Boards

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

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:

- **Thermal** - Complies with NCC 2019 Volume 1 Section J1.2, NCC 2019 Volume 2 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, Specification C1.10 Clause 7 for insulation materials. When tested to AS/NZS 1530.3 this product does not exceed the 'Spread of Flame' or 'Smoke Developed' indices of Specification C1.10 Clause 7.
- **Fire Hazard Properties** Has a Group Number of 1 and $SMOGRA_{RC}$ >100 m^2/s^2 x 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, Specification C1.10 Clause 4.
- **Weatherproofing and Condensation Control** - Facing material meets the requirements of the NCC 2019 Volume 1 part F1.6, Volume 2 part 3.5.2.4, and all State-prescribed variations, through compliance with AS/NZS 4200.1.

Evidence of Suitability

- Testing to AS/NZS 4859.1 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.
- Testing and Professional Assessment, AS/NZS 1530.3 -
  - CSIRO Assessment FCO-2805.
- Testing and 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 16-005482 – *Tensile Strength.*
  - AWTA NATA Report 16-005482 – *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.*
  - CSR Lab NATA Report NR-17213 – *Flammability Classification.*
  - CSR Lab Report R-20078 – *Thickness.*

Specific Design or Installation Instructions

- Isolate power before installation.
- **WARNING:** Heavy Duty Facing 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.
- To provide a water or vapour control layer the foil face of the product should be sealed in accordance with AS 4200.2.
- To maintain the water barrier properties of the facing material it should not be creased, crushed, sharply folded or dragged over the building structure during installation.
- **Condensation Risk Consideration:** The facing material is classified as a vapour barrier, and when positioned on the cold side of the construction it may increase 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.
- **Caution:** Electrical cables and equipment partially or completely surrounded with bulk thermal insulation may overheat and fail. In new build construction with electrical wiring in accordance with AS/NZS 3000, 2018 version or later, wiring may be partially or completely surrounded for up to 400mm. If more than 400mm is surrounded, or for wiring pre AS/NZS 3000, 2018 version, seek advice from a licenced electrician. Refer to legislation and referenced standards for full details.
- Insulation should form a continuous layer, except where it butts against structural members, or for mandatory gaps around services and fittings. It should be installed at nominal thickness, except where it crosses structures, services and fittings.
- Stated thermal performance is based on the insulation blanket only - reflective R-values are construction-dependent upon the adjacent airgap and must be determined in accordance with AS/NZS4859.2.
- Do not allow insulation to get wet after installation.

Supertel Soffit Boards

Specific Design or Installation Instructions cont.

- For installations requiring Group Number and SMOGRA$_{RC}$ ratings, install using metal pin, speed clip or Hilti plastic X-IE insulation fasteners or similar.

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.

Limitations of Use

- This material is not classified as non-combustible in accordance with AS1530.1.
- Not suitable for use in buildings not fitted with a sprinkler system, as the smoke growth rate index (SMOGRA$_{RC}$) is >100 m2/s2 x 1000 (NCC 2019 Vol. 1, Specification C1.10, 4a).
- Group number and SMOGRA$_{RC}$ ratings only apply when installation requirements under 'Specific Design or Installation Instructions' are met.
- Maximum service temperature is 300°C for unfaced Glasswool, 70°C for faced Glasswool.

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

Applicable Product Codes

R-VALUE (m^2K/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

R-values apply to the unfaced board.

Additional Product Data

Maximum Service Temperature		• 300°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/m^2/hr • Formaldehyde 0.03 mg/m^2/h
Fire Hazard Properties	When tested in accordance with AS/NZS 1530.3	**Heavy Duty Faced Board:** • Ignitability: 0 • Spread of flame: 0 • Heat Evolved: 0 • Smoke Developed: 0-1

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.