

Acoustituff®

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

Issue **C**

Product Type & Application

Acoustituff® is available as a Light, Medium or Heavy-Duty classified facing product suitable for use with bulk insulation products. It is a single-sided reflective aluminium foil and grey polyweave-reinforced laminate; bonded using a fire-retardant adhesive. This product is a Water Barrier and Class 2 Vapour Barrier.

Compliance with the NCC

For use in Australia, when correctly specified and installed, this pliable building membrane:

NCC 2022

- **Material Performance Properties** - Meets the requirements of the NCC 2022 Volume 1 F3D3 for sarking-type material through compliance with AS 4200.1.
- **Non- Combustible Sarking-Type Material Exemption** - This product may be used in accordance with the non-combustible sarking-type material exemption stated in NCC 2022 Volume 1 C2D10(6)(f) and NCC 2022 Volume 2 H3D2(1)(f) – it does not exceed 1mm in thickness and has a Flammability Index ≤5.
- **BAL and Fire Hazard Properties** - Where sarking is required by AS 3959 for construction of buildings in bushfire-prone regions BAL 12.5-FZ, this product meets the requirements of section 3.10. It also meets the fire hazard property requirements for sarking-type materials in all locations except exposed installations in fire control rooms or fire-isolated exits, in NCC 2022 Volume 1 S7C7. The product meets these requirements by having a flammability index ≤5.

NCC 2019

- **Material Performance Properties** - Meets the requirements of the NCC 2019 Volume 1 Amend. 1 F1.6 for sarking-type material through compliance with AS 4200.1.
- **Non- Combustible Sarking-Type Material Exemption** - This product may be used in accordance with the non-combustible sarking-type material exemption stated in NCC 2019 Volume 1 Amend. 1 C1.9(e)(vi) and Volume 2 Amend. 1 3.7.1.1(f) – it does not exceed 1mm in thickness and has a Flammability Index ≤5.
- **BAL and Fire Hazard Properties** - Where sarking is required by AS 3959 for construction of buildings in bushfire-prone regions BAL 12.5-FZ, this product meets the requirements of section 3.10. It also meets the fire hazard property requirements for sarking-type materials in all locations except exposed installations in fire control rooms or fire-isolated exits, in NCC 2019 Volume 1 Amend. 1 Specification C1.10. The product meets these requirements by having a flammability index ≤5.

Compliance with the NCC cont.

Compliance details apply to the facing product only. For details of CSR-manufactured faced Glasswool or Rockwool completed products, refer to their individual Product Technical Statements.

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.
- When installed for vapour and/or air control, this product should be sealed at overlaps (minimum 50mm), end laps, discontinuities and penetrations by suitable means such as heat and moisture resistant adhesive tape.
- When installed for water control, this product must have overlaps of minimum 150mm, or 50mm and be taped on the exterior face.
- Suitable for use as a facing material for bulk insulation.
- Always follow the installation instructions in AS 4200.2, and those available on the Bradford website. For inclusion in BAL (Bushfire Attack Level) classified buildings, additionally adhere to the installation requirements of AS 3959.
- For products used in HVAC ductwork, design and installation should be in accordance with AS 4254.
- **Condensation Risk Consideration:** This product is classified as a vapour barrier and is recommended to be positioned on the warm side of the construction 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. If in doubt consider using a Class 4 Bradford Enviroseal vapour permeable product on the cold side of the construction.
- Reflective R-values achieved by the product rely upon adjacent air spaces and will vary depending upon the design and installation. Refer to AS/NZS 4859.2.

For general installation guidance refer to the product installation guide at Bradfordinsulation.com.au

Acoustituff®

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.
- When combined with bulk insulation, the fire performance properties of the final system should be re-assessed by a certifying authority or contact Bradford for more information.
- When used independently this product is not suitable for use as an exposed internal wall or ceiling lining and does not achieve 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). For access to CSR-manufactured product combinations that achieve Group Numbers, refer to faced-Glasswool Product Technical Statements.
- This product is not designed to withstand prolonged exposure to the elements - accordingly, the exterior cladding should be installed within 6 weeks in a wall application, or 2 weeks in a roof application. Products exposed during this period should be inspected for damage and repaired or replaced prior to installation of the exterior cladding to comply with the Product Warranty. Products exposed for longer than the recommended periods will not be covered by the Product Warranty. Products exposed for longer than the recommended periods will not be covered by the Product Warranty.
- Products exposed to harsh weather conditions prior to cladding should be inspected for damage and replaced or repaired to ensure compliance with the Product Warranty.
- Prior to cladding, it is good practice to protect this product from UV exposure and harsh weather conditions which may cause damage.
- This product is not intended for use as a roof sarking.
- This product is not suitable for submersion in water or continuous contact with soil.
- This product should not come into contact with wet concrete, or alkaline materials.

Conditions of Storage & Maintenance

- Store in the original packaging in a cool, dry area, removed from UV light (direct sunlight).
- Do not pressure clean or use mineral based cleaners on this product.

Refer to the product SUI/MSDS at Bradfordinsulation.com.au for more information.

Evidence of Suitability

- Testing to AS/NZS 4200.1 across the following reports apply to the **Light Duty** facing material only -
 - AWTA Report 21-000262 – *Resistance to Dry Delamination.*
 - AWTA Report 21-000262 – *Resistance to Wet Delamination.*
 - AWTA Report 21-000262 – *Moisture Shrinkage.*
 - Orora Report 27113 – *Folding Endurance.*
 - AWTA Report 21-000262 – *Tensile Strength.*
 - AWTA Report 21-000262 – *Edge Tearing.*
 - AWTA Report 21-000262 – *Emittance Classification.*
 - AWTA Report 21-000262 – *Vapour Control Classification.*
 - AWTA Report 21-000262 – *Water Control Classification.*
 - Opal Research & Technology 28401 – *Air Barrier Classification.*
 - CSR Lab NATA Report NR-16209 – *Flammability Classification.*
 - CSR Lab Report R-20078 – *Thickness.*
- Testing to AS/NZS 4200.1 across the following reports apply to the **Medium Duty** facing material only -
 - AWTA Report 16-005479 – *Resistance to Dry Delamination.*
 - AWTA Report 16-005479 – *Resistance to Wet Delamination.*
 - AWTA Report 16-005479 – *Moisture Shrinkage.*
 - Orora Report 24133 – *Folding Endurance.*
 - AWTA NATA Report 16-005479 – *Tensile Strength.*
 - AWTA NATA Report 16-005479 – *Edge Tearing.*
 - R&D Services Report RD16659 – *Emittance Classification.*
 - R&D Services Report RD17258 – *Emittance Classification.*
 - CSIRO Report 7790.3 – *Vapour Control Classification.*
 - AWTA Report 16-005479 – *Water Control Classification.*
 - Opal Research & Technology 28401 – *Air Barrier Classification.*
 - AWTA NATA Report 21-000304 – *Flammability Classification.*
 - CSR Lab Report R-20078 – *Thickness.*
- Testing to AS/NZS 4200.1 across the following reports apply to the **Heavy Duty** facing material only -
 - AWTA Report 20-004835 – *Resistance to Dry Delamination.*
 - AWTA Report 20-004835 – *Resistance to Wet Delamination.*
 - AWTA Report 20-004834 – *Moisture Shrinkage.*
 - Opal Report 26861 – *Folding Endurance.*
 - AWTA NATA Report 20-004835 – *Tensile Strength.*
 - AWTA NATA Report 20-004835 – *Edge Tearing.*
 - AWTA Report 20-004836 – *Emittance Classification.*
 - R&D Services Report RD17258 – *Emittance Classification.*
 - AWTA NATA Report 20-004835 – *Vapour Control Classification.*
 - AWTA Report 20-004835 – *Water Control Classification.*
 - Opal Research & Technology 28401 – *Air Barrier Classification.*
 - CSR Lab NATA Report NR-20204 – *Flammability Classification and Thickness.*

Acoustituff®
Applicable Product Codes

	WIDTH (mm)	LENGTH (m)	m ² PER ROLL	WEIGHT (kg)	PRODUCT CODE
Light Duty	1500	60	90	13	15120
ALSO AVAILABLE IN MEDIUM DUTY AND HEAVY DUTY					

Additional Product Data – AS 4200.1

Duty Classification (AS 4200.1)	Light Duty		Medium Duty		Heavy Duty	
Tensile Strength (AS 4200.1 and AS 1301.448s)	≥ 7.5 kN/m	Machine Direction	≥ 9.5 kN/m	Machine Direction	≥ 12.5 kN/m	Machine Direction
	≥ 4.5 kN/m	Lateral Direction	≥ 6.0 kN/m	Lateral Direction	≥ 7.5 kN/m	Lateral Direction
Edge Tear Resistance (AS 4200.1 and TAPPI T470)	≥ 45 N	Machine Direction	≥ 65 N	Machine Direction	≥ 80 N	Machine Direction
	≥ 45 N	Lateral Direction	≥ 65 N	Lateral Direction	≥ 80 N	Lateral Direction
Water Control Classification (AS/NZS 4201.4)	Water Barrier		Water Barrier		Water Barrier	
Vapour Control Classification (ASTM E96)	Class 2 Vapour Barrier		Class 2 Vapour Barrier		Class 2 Vapour Barrier	
Air Control Classification (ISO 5636-5)	Air Barrier		Air Barrier		Air Barrier	
Emittance Classification (AS 4200.1 and AS/NZS 4201.5)	Reflective, ≤0.05	Inward Facing	Reflective, ≤0.05	Inward Facing	Reflective, ≤0.05	Inward Facing
	Non-Reflective Polyweave >0.15	Outward Facing	Non-Reflective Polyweave >0.15	Outward Facing	Non-Reflective Polyweave >0.15	Outward Facing
Flammability Index (AS 1530.2)	≤ 5 (Low)		≤ 5 (Low)		≤ 5 (Low)	
Electrical Conductivity	Conductive		Conductive		Conductive	
Resistance to Dry Delamination (AS/NZS 4201.1)	Pass		Pass		Pass	
Resistance to Wet Delamination (AS/NZS 4201.2)	Pass		Pass		Pass	
Moisture Shrinkage (AS/NZS 4201.3)	≤ 0.5 %		≤ 0.5 %		≤ 0.5 %	
Thickness	< 1.0 mm		< 1.0 mm		< 1.0 mm	