

Thermoplast 990F White

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

Issue **B**

Product Type & Application

Thermoplast 990F White is a Medium Duty facing product for use in applications requiring aesthetic properties. It is a reinforced, paper-based laminate with an inward facing white decorative lacquer and outward facing foil; 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:

- **Weatherproofing and Condensation Control** - Meets the requirements of the NCC 2019 Volume 1 parts F1.6, F6.2(a)(i), Volume 2 parts 3.5.2.4(b), 3.8.7.2(a)(i), and all State-prescribed variations, through compliance with AS/NZS 4200.1.
- **Non-Combustibility 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 Section C1.9(e)(vi) and Volume 2 Section 3.7.1.1(f) – it does not exceed 1mm in thickness and has a Flammability Index ≤5.
- **BAL and Fire Hazard Properties** - Meets the requirements of sarking for construction of buildings in bushfire-prone regions BAL 12.5-FZ, as per AS 3959, section 3.10; and 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 Specification C1.10.

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.

Limitations of Use

- When used independently this product is not suitable for use as an exposed 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, Specification C1.10 Clause 4). 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, direct exposure to the elements - accordingly, the exterior cladding should be installed without delay. Products exposed to harsh weather conditions, or for more than 6 weeks in wall, or 2 weeks in roof applications should be inspected for damage prior to installation of the exterior cladding. Damaged product should be repaired or replaced to comply with the product warranty.
- This foil facing product should not come into contact with wet concrete, or alkaline materials.

Limitations of Use Continued

- This product does not have antiglare and is not recommended for use in sarking applications. Please refer to the Product Technical Statements of CSR-manufactured construction fabrics for products suitable for use as a sarking.

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.
- Suitable as a facing material for Glasswool or Rockwool for aesthetic or acoustic purposes.
- 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.
- To maintain the water barrier properties of the material it should not be punctured, creased, crushed, sharply folded or dragged over the building structure during installation.
- Reflective R-values achieved by the product rely upon adjacent air spaces and will vary between installation designs. Refer to AS/NZS 4859.2.
- **Condensation Risk Consideration:** This product 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. If in doubt consider using a Class 4 Bradford Enviroseal vapour permeable product.

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

Conditions of Storage & Maintenance

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

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

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Evidence of Suitability

- Testing of the facing material only to AS/NZS 4200.1 across the following reports-
 - CSIRO Report 5978-2A – *Resistance to Dry Delamination.*
 - CSIRO Report 5978-2A – *Resistance to Wet Delamination.*
 - CSIRO Report 5978-2A – *Moisture Shrinkage.*
 - Orora Report 24133 – *Folding Endurance.*
 - CSIRO Report 5978-2A – *Tensile Strength.*
 - CSIRO Report 5978-2A – *Edge Tearing.*
 - AWTA Report 21-000527, 21-000529 – *Emittance Classification.*
 - AWTA Report 21-000527 – *Vapour Control Classification.*
 - AWTA Report 21-000527 – *Water Control Classification.*
 - CSR Lab NATA Report NR-21201 – *Flammability Classification.*
 - CSR Lab Report R-20078 – *Thickness.*

Testing 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.

Applicable Product Codes

WIDTH (mm)	LENGTH (m)	m ² PER ROLL	WEIGHT (kg)	PRODUCT CODE
1350	60	81	32.83	180792

Additional Product Data – AS/NZS 4200.1

Duty Classification (AS/NZS 4200.1)	Medium Duty	
Tensile Strength (AS/NZS 4200.1 and AS 1301.448s)	≥ 9.5 kN/m	Machine Direction
	≥ 6.0 kN/m	Lateral Direction
Edge Tear Resistance (AS/NZS 4200.1 and TAPPI T470)	≥ 65 N	Machine Direction
	≥ 65 N	Lateral Direction
Water Control Classification (AS/NZS 4201.4)	Water Barrier	
Vapour Control Classification (ASTM E96)	Class 2 Vapour Barrier	
Emittance Classification (AS/NZS 4200.1 and AS/NZS 4201.5)	Non-Reflective, >0.15	Inward Facing
	Reflective, ≤0.05	Toward Insulation Blanket
Flammability Index (AS 1530.2)	≤ 5 (Low)	
Electrical Conductivity	Conductive	
Resistance to Dry Delamination (AS/NZS 4201.1)	Pass	
Resistance to Wet Delamination (AS/NZS 4201.2)	Pass	
Moisture Shrinkage (AS/NZS 4201.3)	≤ 0.5 %	
Nominal Thickness	< 1.0 mm	
Taping / Sealing	Overlaps and joins in the facing material should be taped using the recommended tape for a consistent colour finish.	