

# Thermoseal® 750 HD

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

Issue **B**

## Product Type & Application

Thermoseal® 750 HD is a Heavy Duty facing product suitable for use with Glasswool or Rockwool insulation products. It could additionally be used as a pliable building membrane. It is a reinforced paper based, double-sided reflective aluminium foil laminate; bonded using a fire-retardant adhesive. This product is a Water Barrier and Class 1 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, Volume 2 parts 3.5.2.4, 3.8.7.2, and all State-prescribed variations, through compliance with AS/NZS 4200.1.
- **Non-Combustibility** - Is suitable for use where a non-combustible sarking-type material is specified in accordance with NCC 2019 Volume 1 Section C1.9 and Volume 2 Section 3.7.1.1 – it does not exceed 1mm in thickness and has a Flammability Index  $\leq 5$ .
- **Fire Hazard Properties & BAL** - 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.**

## Evidence of Suitability

- Testing of the facing material only to AS/NZS 4200.1 across the following reports-
  - 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 – *Emission 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*

**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.**

## 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 for use where a non-combustible sarking-type material is required.
- Suitable as a facing material for Glasswool or Rockwool for protection of the insulation surface.
- When used as a pliable building membrane, 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 created, crushed, sharply folded or dragged over the building structure during installation.
- Reflective R-values achieved by the product rely on 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 of the building design or use a Class 4 vapour permeable membrane in all climate zones, except climate zone 1, to further reduce condensation risk.

**For general installation guidance refer to the product installation guide at [Bradfordinsulation.com.au](http://Bradfordinsulation.com.au)**

## Conditions of Storage, Use & Maintenance

- Store in the original packaging in a cool, dry area, removed from UV light (direct sunlight).
- The product should not come into contact with wet concrete, or alkaline materials.
- Do not pressure clean or use mineral based cleaners on this product.

**Refer to the product SUIS/MSDS at [Bradfordinsulation.com.au](http://Bradfordinsulation.com.au) for more information.**

## Thermoseal® 750 HD

### Limitations of Use

- This product is not suitable for use as an exposed wall or ceiling lining in applications which require a Group Number in accordance with AS ISO 9705 and AS 5637.1 (NCC 2019 Volume 1, Specification C1.10 Clause 4). Refer to faced Glasswool Product Technical Statements for test results of CSR-manufactured product combinations.
- 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.
- Not recommended for use with tiled roofs.
- This product is not suitable where a vapour permeable pliable building membrane is specified (as a wall wrap) for climate zones 6, 7, and 8 in NCC 2019 Volume 1, Part F6.2 and NCC 2019 Volume 2, Part 3.8.7.2; or where the cladding manufacturer specifies a vapour permeable membrane.

### Applicable Product Codes

WIDTH (mm)	LENGTH (m)	m <sup>2</sup> PER ROLL	WEIGHT (kg)	PRODUCT CODE
750	300	225	94.76	15070
1000	60	60	25.46	15072
1000	300	300	126.26	15073
1000	500	500	210.26	15074
1000	1000	1000	405	169681
1200	60	72	30.5	15086
1200	300	360	151.46	15087
1200	500	600	252.26	15088
1200	1000	1200	504.26	15089
1350	300	405	170.36	15082
1350	500	675	283.76	15083
1350	1000	1350	567.26	15084
1500	500	750	315.26	15077
1500	1000	1500	630.26	15078

**Thermoseal® 750 HD**
**Additional Product Data – AS/NZS 4200.1**

<b>Duty Classification (AS/NZS 4200.1)</b>	Heavy Duty	
<b>Tensile Strength (AS/NZS 4200.1 and AS 1301.448s)</b>	≥ 12.5 kN/m	Machine Direction
	≥ 7.5 kN/m	Lateral Direction
<b>Edge Tear Resistance (AS/NZS 4200.1 and TAPPI T470)</b>	≥ 80 N	Machine Direction
	≥ 80 N	Lateral Direction
<b>Water Control Classification (AS/NZS 4201.4)</b>	Water Barrier	
<b>Vapour Control Classification (ASTM E96)</b>	Class 1 Vapour Barrier	
<b>Emittance Classification (AS/NZS 4200.1 and AS/NZS 4201.5)</b>	Reflective, ≤0.05	Inward Facing
	Reflective, ≤0.05	Outward Facing
<b>Flammability Index (AS 1530.2)</b>	≤ 5 (Low)	
<b>Electrical Conductivity</b>	Conductive	
<b>Resistance to Dry Delamination (AS/NZS 4201.1)</b>	Pass	
<b>Resistance to Wet Delamination (AS/NZS 4201.2)</b>	Pass	
<b>Moisture Shrinkage (AS/NZS 4201.3)</b>	≤ 0.5 %	
<b>Nominal Thickness</b>	< 1.0 mm	