



## Product Data Sheet

# THERMABAR 344

### Aluminium foil underlay

Thermabar 344 is a lightweight, high tensile aluminium foil underlay used in walls and roofs to deflect heat and provide a clean white finish to the interior of commercial or industrial buildings.

Thermabar comes in three roll sizes:

1350mm wide	37m long	50m <sup>2</sup> coverage*
1350mm wide	56m long	75m <sup>2</sup> coverage*
1350mm wide	75m long	100m <sup>2</sup> coverage*

\* **Note:** m<sup>2</sup> is the roll size for actual coverage, allow for laps and joins.

Smarter products. Better buildings.  
**thermakraft.co.nz**



# Thermabar 344

## Aluminium foil underlay

### Scope of Use

Thermabar 344 can be used in Commercial or Industrial buildings within the following scope:

- Buildings constructed with timber or steel framing.
- Used in conjunction with profiled metal roof and wall claddings. Where adequate ventilation and moisture and condensation control is provided to the building interior for the intended use.
- Situated in NZS 3604 Wind Zones up to and including 'Extra High' for roof application and 'Very High' for wall application.
- Thermabar 344 is generally used in buildings where a means of secondary weather defence is not required. In these situations, it can be used under roofing at any pitch. Where it is used as part of the cladding system, the designer is responsible for the design using the product property performance.
- When Thermabar 344 is used as a vapour control layer, all laps and junctions must be sealed with Thermakraft White General Purpose Tape.

### General

- Fire Retardant.
- Vapour barrier (non-breathable) or vapour control layer in ventilated commercial and industrial buildings.
- Unaffected by LOSP or other solvent based treated timber. However, LOSP or other solvent based treated timber must have sufficient time for the solvent chemical to flash off in well ventilated area. Recommended minimum 7 days.
- As aluminium based foils have the potential to conduct electricity, care must be taken when installing foils to ensure that there is no possible contact with any electrical cabling or installations. Foils are not suitable for installation in residential or associated buildings.

### Limitations

- Thermabar 344 is not self-supporting (consider using Thermabar 397 if self-support is required).
- Commercial and Industrial application only.
- Must NOT be exposed to the weather or UV for more than 7 days.
- Must NOT be used under translucent sheeting.
- The suitability of Thermabar 344 for any local environment in commercial or industrial application (e.g. where production activities could degrade the product) must be considered by the designer.
- Thermabar 344 is NOT self-supporting.
- Thermabar 344 must NEVER come into contact with wet concrete or other lime based products.

### Compliance

When Thermabar 344 is used, installed and maintained in accordance with Thermakraft literature, the product will meet or contribute to meeting the following provisions of the NZBC.

- Clause B2 Durability: Performance B2.3.1 (b), 15 years. Thermabar 344 meets these requirements.
- Clause C3 Fire Affecting Areas Beyond the Fire Source: Performance C3.4 (c). Thermabar 344 meets this requirement.

### Flammability Index

- Thermabar 344 Underlay has an AS 1530 Part 2 Flammability Index of not greater than 5 and therefore meets the requirements of NZBC Acceptable Solutions C/AS2 to C/AS6, Paragraph 4.17.8 b), for the surface finish requirements of suspended flexible fabric used as an underlay to exterior cladding that is exposed to view in occupied spaces. It may therefore be used with no restrictions in commercial and industrial buildings.

### Durability

Thermabar 344 will meet the performance requirements of NZBC Clauses B2, Durability (B2.3.1[b] 15 years) providing:

- It is not damaged.
- Is not left exposed for more than 7 days (roof). Same day coverage recommended.
- Installed to the MRM Roofing Code of Practice.
- Installed by or under guidance of Licensed Building Practitioners.
- Is compatible with the cladding system used (**Note:** roof cladding system compatibility testing must be done first before installation.)

### Internal Moisture

Thermabar 344 is intended for use in commercial and industrial buildings that are subject to specific engineering design. These buildings generally do not require the use of an underlay for internal moisture control. Thermabar 344 must only be used in buildings with adequate means of ventilation, moisture and condensation control. Buildings incorporating high moisture loads such as swimming pools, freezers, cool stores, open liquid containers and moisture generating plants require specific design and are outside the product's scope of use.

For passive ventilation of the roof space, it is recommended that all roof underlays are terminated at the ridge, and if not it should be slit or slotted to allow for passive ventilation. (For further information refer to the NZ MRM Roofing Code of Practice).

### Product Warranty

Standard Thermakraft warranty applies. Refer to Thermakraft Warranty Statement for further details. This is available online at [thermakraft.co.nz](http://thermakraft.co.nz) or call **0800 806 595**.

Thermakraft Limited / 0800 806 595

Smarter products. Better buildings. [thermakraft.co.nz](http://thermakraft.co.nz)

The recommendations contained in Thermakraft's literature are based on good building practice, but are not an exhaustive statement of all relevant information and are subject to any conditions contained in the Warranty. All product dimensions and performance claims are subject to any variation caused by normal manufacturing process and tolerances. Furthermore, as the successful performance of the relevant system depends on numerous factors outside the control of Thermakraft (for example quality of workmanship and design), Thermakraft shall not be liable for the recommendations in that literature and the performance of the Product, including its suitability for any purpose or ability to satisfy the relevant provisions of the Building Code, regulations and standards. Literature subject to change without notification. Latest documentation can be found on the website. E&OE.

