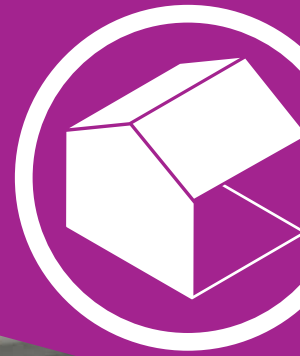


**Thermakraft™**  
**THERMABAR**  
**344**



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**344**

**Reinforced aluminium foil underlay**

Kingspan Thermabar 344 is a reinforced 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 and unlined sheds and warehouses.

Thermabar 344 is self-supporting and fire retardant.



# Thermabar 344

## Reinforced aluminium foil underlay



### 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.

### Scope of Use

Thermabar 344 can be used in commercial or industrial buildings and unlined sheds and warehouses 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 3604:2011 Wind Zones up to and including 'Extra High' for roof application and 'Very High' for wall application.
- Not suitable for roof pitch less than 3 degrees when used as a roof underlay.
- 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 White General Purpose Tape or AIR-CELL Insulation Tape.

### General

- Fire Retardant.
- Thermabar 344 is self-supporting to a maximum span of 1200mm. It can also be supported on safety mesh or wire netting as required by the building design.
- Thermabar 344 can be installed with either the silver or white face facing inside the building.
- The white face of Thermabar 344 has a Light reflectance of 65-75%.
- 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.
- Thermabar 344 is made in the Republic of Korea.

- 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.
- Thermabar 344 is not subject to a warning or ban under section 26 of the Building Act 2004 when used as per the product scope.

### Limitations

- For use in unlined commercial and industrial applications and unlined sheds and warehouses.
- Thermabar 344 cannot be used in Residential buildings (Housing or Communal Residential buildings). This includes new builds, retrofits and any repair works.
- Must NOT be exposed to the weather or UV for more than 7 days.
- Must NOT be used under translucent sheeting.
- If installed within 500 metres of the sea where foil surfaces may be exposed to a corrosive atmosphere (including agricultural sheds), install Thermabar 344 with the white face to the interior.
- Thermabar 344 must NEVER come into contact with wet concrete or other lime based products.
- Recommended NOT to be left exposed in applications such as under unlined canopies, soffits and lean-to designs. Warranty void when used in exposed applications.

### Compliance

When Thermabar 344 is used, installed and maintained in accordance with Kingspan Insulation literature, the product will meet or contribute to meeting the NZBC.

### Flammability Index

- Thermabar 344 Underlay has an AS 1530 Part 2:1993 Flammability Index of not greater than 5 and therefore meets the requirements of NZBC Acceptable Solutions C/AS2, 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.

# Thermabar 344

## Reinforced aluminium foil underlay



### 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 installed in accordance with instructions.
- Is not left exposed for more than 7 days (roof and wall). Same day coverage recommended.
- Installed to the NZ Metal Roof and Wall Cladding Code of Practice.
- Installed by or under guidance of Licensed Building Practitioners or with a PS1 engineered design and PS3 to validate the building work.
- 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 Metal Roof and Wall Code of Practice).

### Product Warranty

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



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Thermakraft and Ausmesh products are brought to you by Kingspan Insulation NZ Limited.

