



Thermakraft™

THERMABAR³⁴⁶

Thermabar 346 is a Fire Retardant Double Sided Foil Insulation, consisting of two layers of highly burnished aluminium foil, bonded with a fire retardant adhesive to a woven polymeric mesh. Due to its highly reflective surfaces, and used in conjunction with a still air space, provides thermal insulation and a vapour control layer.

- ✓ Can be used as a Vapour Control Layer and improve thermal performance if installed and taped on the warm side of bulk insulation.
- ✓ Is tear resistant and when used in conjunction with a still air cavity, provides thermal insulation.
- ✓ Is reflective, light weight and has high tensile strength.
- ✓ Unaffected by LOSP treated timber.
- ✓ Suitable for roofs and walls in commercial and industrial buildings.



Fire Retardant



Water Barrier / Vapour Barrier



Strong & Durable



ROOF



WALL

FOIL UNDERLAY

THERMABAR 346

APPLICATION & INSTALLATION

- 1 May be laid vertical i.e. from gutter to ridge or laid horizontally weatherboard fashion from gutter. Ensure minimum 150mm lap for either method.
- 2 Thermabar 346 should be supported by Thermakraft Safety Mesh 300mm x 150mm or on hexagonal netting 50mm or 75mm.
- 3 If used on its own as a vapour control layer or for thermal insulation, Thermabar 346 should be installed with an air gap separating it from roof cladding. Refer the NZ Metal Roofing Manufacturers (MRM) Code of Practice.
- 4 Due to the potential for condensation to form on the underside of foil when used as a roof or wall underlay, in direct contact with metal cladding, installation may require the inclusion of an air gap separating the foil from the external metal cladding, especially in applications of high moisture or spaces with limited ventilation.
- 5 Special care should be taken in areas subject to frosts.

TECHNICAL SPECIFICATIONS

Control of Condensation

In climatic regions where condensation risks are high, such as cold or high humidity areas, care needs to be taken in specifying the correct design and installation to prevent moisture build-up in the roof cavities.

Factors which adversely affect the condensation risk in roofing systems include:

- Humid, and/or cold climatic regions.
- Warm/Skillion roof construction.
- Low roof cavity air volume and restricted air movement.
- Omitting Vapour Control Layers.
- Ceiling penetrations and entry of warm air into roof cavities.
- Occupancy activities which have high moisture loading on conditioned spaces.
- Low pitched roof.
- Bulk insulation.
- Building structures ability to naturally dry construction moisture.
- Skillion and Warm Roof Construction are particularly sensitive to moisture accumulation and the design and installation of roof construction needs to take into account the higher condensation risks. Refer MRM Code of Practice for details.

WARNING:

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.

Flammability Index

Thermabar 346 double sided foil 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 all buildings.



Roll Dimensions:

1350 x 37m (50m²)
1350 x 56m (75m²)
1350 x 75m (100m²)

DURABILITY

Thermabar 346 will meet the performance requirements of NZBC Clauses B2, Durability (B2.3.1[b] 15 years), E2 External Moisture E2.3.2, F2 Hazardous Building Materials F2.3.1, providing:

- It is not damaged.
- It is covered within 24 hours.
- Installed to the Roofing Code of Practice.
- Installed by or under guidance of Licensed Building Practitioners.
- It has not come into contact with wet concrete or other lime based products.



11 Turin Place, East Tamaki, Auckland, NZ
P.O. Box 58-112, Botany, Auckland 2163
Phone 0800 806 595 or +64 9 273 3727
Fax +64 9 273 3726
Email info@thermakraft.co.nz
www.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.