



Thermakraft™

THERMABAR³⁴⁴

Thermabar 344 is a Fire Retardant light diffuser Foil Insulation, consisting of a layer of highly burnished aluminium foil bonded with a Fire Retardant adhesive to a white woven polymeric mesh. It will provide a quality white aesthetic finish, increasing light diffusion and reflection.

- ✓ Suitable for roofs and walls in commercial and industrial buildings.
- ✓ Provides a quality white aesthetic finish, increasing light diffusion and reflection when installed with white surface facing down.
- ✓ Can be used as a vapour control layer, and improve thermal performance if installed and taped on the warm side of bulk insulation.
- ✓ Is light weight, reflective and has a high tensile strength.



Fire Retardant



Water Barrier / Vapour Barrier



Strong & Durable

THERMABAR 344



ROOF



WALL

FOIL UNDERLAY

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 344 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 344 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 344 white faced 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 344 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.



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