



Thermakraft™

THERMABAR397

Thermabar 397 is a fire retardant, light diffuser, high strength foil insulation & vapour control layer used to line walls and under roofs in commercial and industrial building to give a clean white finish.

- ✓ Synthetic insulation foil and vapour control laminate
- ✓ Provides extreme tear resistance & low shrinkage
- ✓ High tensile strength
- ✓ Stiff product for ease of laying
- ✓ Light weight
- ✓ Recyclable product
- ✓ Provides a quality white aesthetic finish, increasing light diffusion and reflection when installed with white surface facing down.
- ✓ Classified as self-supporting.
- ✓ Unaffected by LOSP treated timber.
- ✓ Is NOT electrically conductive.



Fire Retardant



Water Barrier / Vapour Barrier



Strong & Durable



WALL



ROOF



BRANZ Appraised
Appraisal No.1000 [2018]

FOIL UNDERLAY

THERMABAR 397

APPLICATION & INSTALLATION

Roof

- 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 397 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 397 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.

Wall

- 1 Lay Thermabar 397 wallpaper fashion from top plate to bottom plate. Maintain tension during the fixing, ensuring a tight smooth finish.
- 2 Minimum lap for both walls and roof is 150mm.
- 3 Where air conditioning is to be installed use Thermakraft White General Purpose Tape.

TECHNICAL SPECIFICATIONS

Thermabar 397 can be used as an exposed light reflective foil/vapour barrier when used on specific design buildings within the following scope:

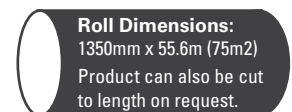
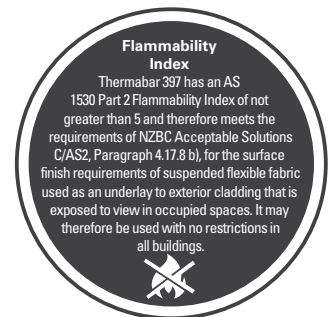
- Constructed with timber or steel framing; and
- Used in conjunction with profiled metal roof and wall claddings; and
- Where adequate ventilation and moisture and condensation control is provided to the building interior for the intended use; and
- Situated in NZS 3604 Wind Zones up to and including Extra High.

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.



DURABILITY

Thermabar 397 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.



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

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