



Installation Guide

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.

Product usage

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. Thermabar is NOT self-supporting.



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Application Method

- Thermabar 344 is installed with the white surface facing into the building interior space. The underlay must be fixed at maximum 300mm centres to wall/roof framing members or as specified by the designer where subjected to wind.
- Fix using stainless steel 8-12mm staples or 20mm flat head galvanized clouts, or appropriate proprietary fastenings on timber framed structure. Fixing types and requirements for steel framed structure can be found in the MRM Code of Practice.
- In roof applications, it must be laid over a roof underlay support of galvanised steel wire mesh or safety mesh. Safety mesh must be used in accordance with the AS/NZS 4389.
- Thermabar 344 must be pulled taut before fixing.
- Thermabar 344 may be installed vertically or horizontally. Laps must be a minimum of 150mm wide. Where the designer intends the underlay to act as a means of secondary weather defence, the direction of the laps must ensure that any water collected is shed to the outer face. End laps must be made over framing and be no less than 150mm wide. Refer the NZ Metal Roofing Manufacturers (MRM) Code of Practice for full details.
- When Thermabar 344 is used as a vapour control layer, all laps and junctions must be sealed with Thermakraft White General Purpose Tape.
- 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.
- Due to the potential for condensation to form on the underside of Thermabar 344 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.
- In wall application, lay Thermabar 344 from below bearers to the top plate.
- Any areas damaged during installation must be replaced.

Application Tips

- When fixing the product in windy conditions, care must be taken due to large sail area.
- 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 a well ventilated area. Recommended minimum 7 days.

Handling and Storage

- Thermabar 344 must be handled with care to prevent damage such as tearing and roll deformation.
- The product must be stored under cover well away from direct moisture, rainfall contact and sunlight (UV). Care should be taken not stack other materials on top of the product.