



Installation Guide

COVERTEK 405

Self-supporting roof underlay

Covertek 405 is a premium synthetic roof underlay designed as a means of managing condensation, water vapour transfer and water ingress. It is self-supporting, stable and shrink resistant and can be installed in applications where the roof pitch is 3° and above.

Product usage

Covertek 405 is a synthetic self-supporting roof underlay designed as a means of managing condensation, and water ingress in roof applications. Constructed using a microporous water-resistant film sandwiched between two layers of spun-bonded polyolefin Covertek 405 is fire retardant, absorbent and breathable.

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Application Method

Long-run metal roofing/vertical or horizontal installation method

- Fix using stainless steel 8-12mm staples or 20mm flat head clouts, or appropriate proprietary fastenings on timber framed structure. Fixing at 300mm centres. Fixing types and requirements for steel framed structure can be found in the MRM Code of Practice.
- Refer to table below to determine underlay support requirements.

Roof Pitch	Span	Underlay Support Required	
		Horizontally Installed	Vertically Installed
≥ 10°	> 1200mm	Yes	Yes
	≤ 1200mm	No	No
< 10° (Min 3°)	> 1200mm	Yes	Yes
	≤ 1200mm	No	Yes

- Covertex 405 upper sheet lapped over lower sheets (shiplap) to ensure water is shed to the outer face.
Note: Covertex 405 can move downwards. To prevent this, it must be "Captured" by the fastenings at each purlin. Horizontal fix must not be used on purlin distance greater than 1100mm to allow for 150mm laps.
- Must be laid firmly (tight/tout) without creases. All laps either vertical or horizontal must be a minimum of 150mm lap.
- When underlay support is required, Thermakraft recommend using AUSMESH Safety Mesh, AUSNET hexagonal netting or Thermastrap 201.
Note: Commercial Buildings may require the use of Thermakraft Safety Mesh under Covertex 405. Covertex 405 can be installed above the battens or purlins for profiled metal roof claddings and otherwise in accordance with NZBC E2/AS1.
- If required to achieve a lap seal (refer to NZ Metal Roofing Code of Practice), use Thermakraft Aluband window sealing tape or Thermakraft White General Purpose Tape.
- Covertex 405 will provide temporary weather protection during construction (maximum 7 days), same day coverage recommended. DO NOT over expose the product for more than 7 days.
- Covertex 405 may be unwound to the full length from the gutter to the ridge. However, when

ridge ventilation is required Covertex 405 may be terminated or slit at the ridge purlin to allow a free passage of air.

- Covertex 405 must NOT overhang the gutter line by more than 20 mm, or if eaves flashings are used, terminate on the upper side of the flashing. More details can be found in the MRM Code of Practice.
- Flue penetrations must have a minimum distance of 50mm from Covertex 405 (refer to NZ Metal Roof and Wall Cladding Code of Practice 10.11.5).
- Covertex 405 must be free of tears and punctures, fit tightly and be lap taped around all penetrations (except flue penetrations), to provide drainage for any condensation, or surface water from leaks.

Note: Do not use Aluband on penetrations where Polybutene water pipes have been installed. Refer Pipe Manufacturers for instructions on sealing penetrations.

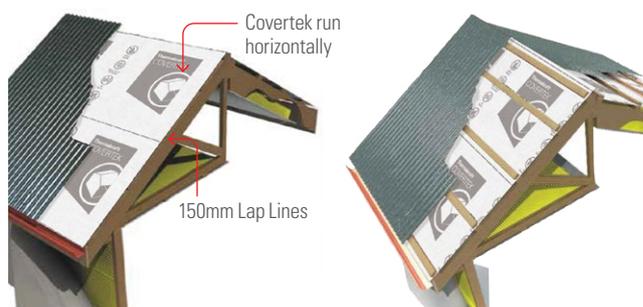
Concrete/Metal tile roofing

- Covertex 405 must be laid over rafters prior to fixing the tile battens. The maximum span between rafters for Covertex 405 is 1200mm. Masonry tile roofs must have antiponding boards in accordance with NZBC E2/AS1 Paragraph 8.2.5.
- Installed Covertex 405 may be laid over the top of the antiponding boards and draped into the gutter by no more than 20mm. Antiponding boards must be treated in accordance with NZS 3604.
- Covertex 405 must be installed by a licensed building practitioner.

Application Tips

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.

Corrugated roofing:



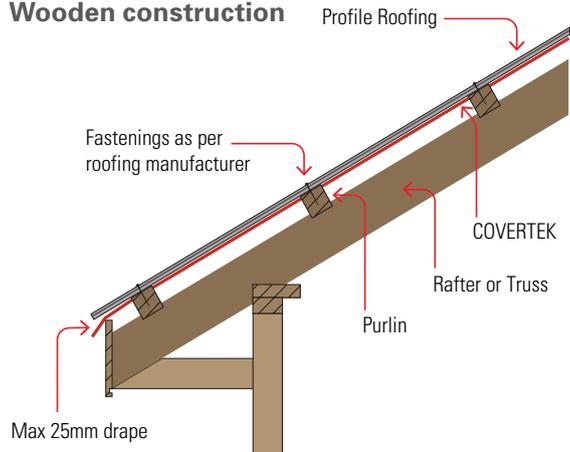
Covertex 405 can be direct fix or cavity fix and must be installed in a manner that prevents ponding of water and span no more than 1200mm.

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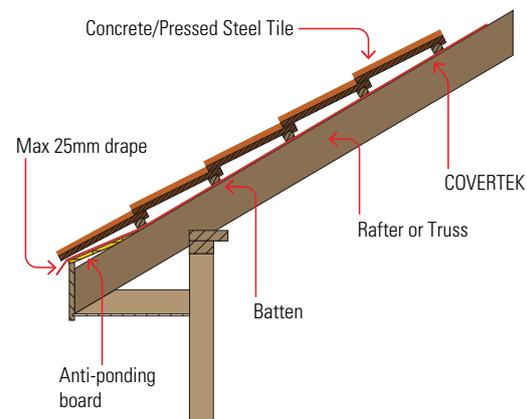
Long run metal roofing:

Wooden construction



Concrete/metal tile roofing:

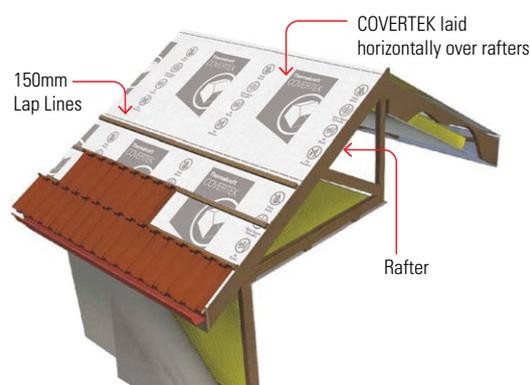
Tile roofing



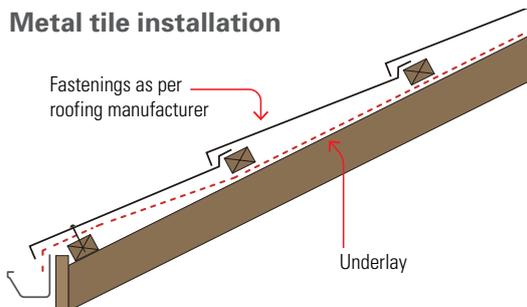
Steel construction



Tile roofing



Metal tile installation



Handling and Storage

Covertex 405 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 to stack other materials on top of the product.