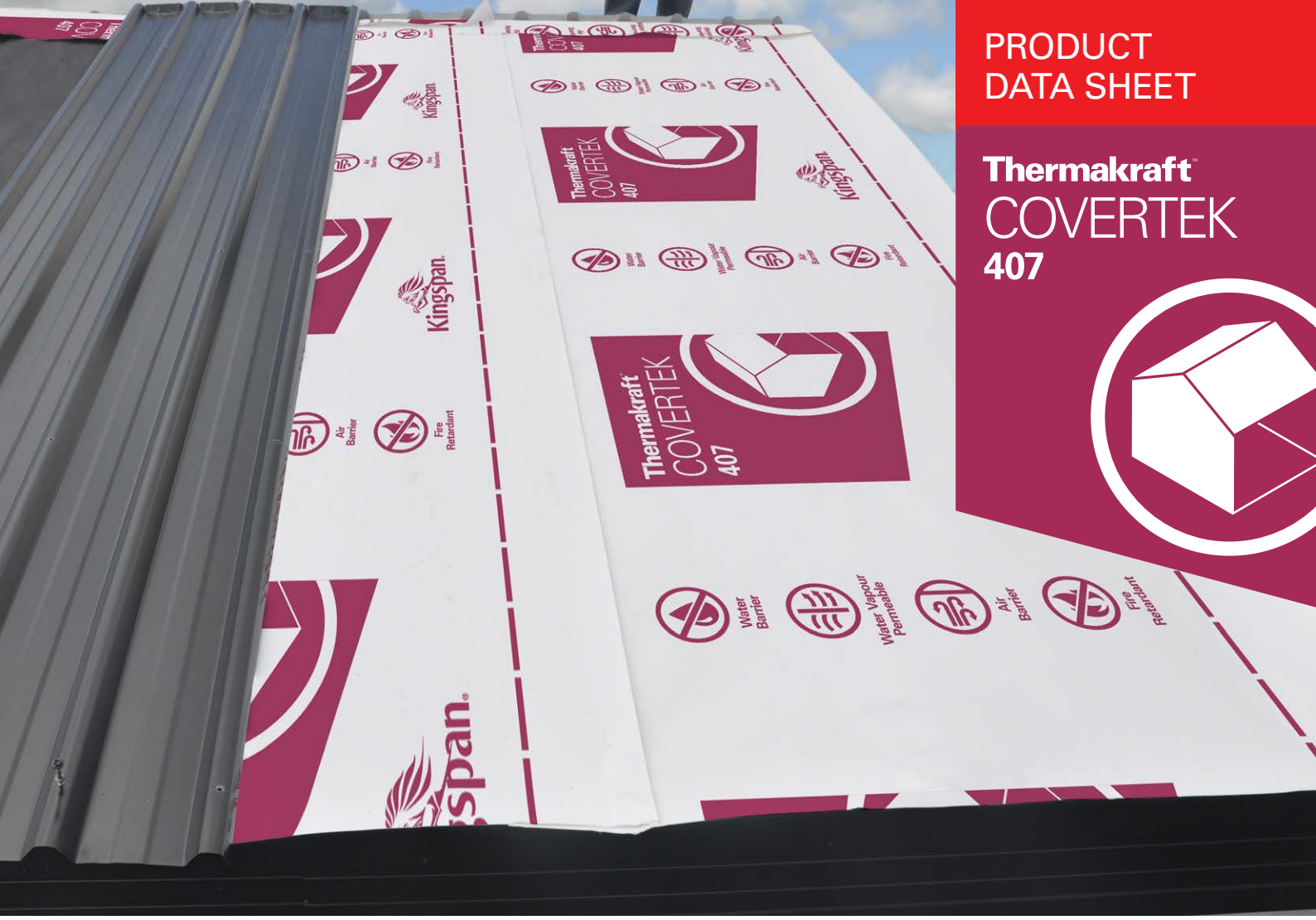

PRODUCT DATA SHEET

Thermakraft™
COVERTEK
407

Thermakraft™ COVERTEK 407

Heavy duty self-supporting roof and wall underlay

Kingspan Thermakraft Covertek 407 is our strongest synthetic underlay, designed as a means of managing condensation, water vapour transfer and water ingress in the most trying conditions including applications where the roof pitch is 3° and above. Covertek 407 is fire retardant.

Covertek 407 comes in four standard roll sizes:

1250mm wide	20m long	25m² Coverage[2]
1250mm wide	40m long	50m² Coverage[2]
2550mm wide[1]	29.5m long	75m² Coverage[2]
2740mm wide[1]	18.3m long	50m² Coverage[2]

Cut to Length and other roll lengths available – Contact your Kingspan Insulation Representative.

1 **Note:** made to order.
2 **Note:** m² is the roll size for actual coverage, allow for laps and joins.

BRANZ Appraised
Appraisal No. 651

CodeMark
CMNZ30028

Kingspan®

Covertek 407

Heavy duty self-supporting roof and wall underlay

Scope of Use

Roof Application

- Can only be used in lined applications. Section E2 of the New Zealand Building Code defines lining as "the rigid sheet covering for a wall, ceiling or other interior surface."
- Suitable with masonry tile, metal tile and profiled metal roof cladding.
- Suitable for timber or steel framed buildings.
- Not suitable for roof pitch less than 3 degrees.
- Can be used on roofs up to and including NZS 3604:2011 Extra High wind zones.
- Self-supporting - Refer to installation guide regarding underlay support requirements.
- Maximum 30 days exposure for roof applications.

Wall Application

- Can only be used in lined applications. Section E2 of the New Zealand Building Code defines lining as "the rigid sheet covering for a wall, ceiling or other interior surface."
- Can be used with timber and steel framing, either direct or in conjunction with an 18mm minimum drained cavity.
- Suitable with absorbent (e.g. timber, brick or fibre cement) or non-absorbent wall claddings (e.g. metal or plastic).
- Suitable with masonry veneer in accordance with NZBC Acceptable Solution E2/AS1 or NASH Building Envelope Solutions.
- Is suitable for use in Wind Zones of NZS 3604:2011 up to and including 'Very High' when used as a standalone flexible underlay, and 'Extra High' when used as a flexible underlay over a rigid wall underlay.
- Maximum 120 days exposure for wall application.
- To use in early close applications, follow the Covertek 407 Early Close Installation Guide.

General

- Is fire retardant.
- 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 well ventilated area. Recommended minimum 7 days.
- Tear resistant and strong.
- Covertek 407 is not subject to a warning or ban under section 26 of the Building Act 2004 when used as per the product scope.

Limitations

- Must NOT be exposed to the weather or UV for more than 30 days as a roof underlay and 120 days as a wall underlay.
- Must NOT be used under translucent sheeting.
- Must NOT be used in any unlined applications, including but not limited to sheds, warehouses, garages, canopies, soffits and lean-to designs. Warranty void when used in unlined applications.

Compliance

Roof Application

- Can be used as a roof underlay within the scope limitations of NZBC Acceptable Solution E2/AS1, Subsection 1.1.1, with regards to building height and floor plan area.
- Or within the scope limitations of NASH Building Envelope Solutions, Paragraph 1.1 for steel framed buildings.
- Refer to BRANZ Appraisal No. 651 and CodeMark Certificate CMNZ30028 for full details.

Wall Application

- Can be used as a wall underlay within the scope limitations of NZBC Acceptable Solution E2/AS1, Subsection 1.1.1, with regards to building height and floor plan area.
- Or within the scope limitations of NASH Building Envelope Solutions, Paragraph 1.1 for steel framed buildings.
- Refer to BRANZ Appraisal No. 651 and CodeMark Certificate CMNZ30028 for full details.

Flammability Index

Covertek 407 Underlay has an AS 1530 Part 2:1993 Flammability Index of not greater than 12 and therefore meets the requirements of NZBC Acceptable Solution C/AS2, Paragraph 4.17.8 a), for the requirements of suspended flexible fabric used as an underlay to exterior cladding that is not exposed to view in occupied spaces. Due to the updated scope of use limiting Covertek 407 to lined applications only, the flammability requirement is now **not greater than 12.** Covertek 407 meets a flammability index of **not greater than 5**, it is not suitable for unlined applications due to UV control requirements.

Durability

Meets the Performance Requirements of NZBC Clauses B2, Durability (B2.3.1 (a) 50 years, B2.3.1 (b) 15 years and B2.3.2), C3 Fire Affecting Areas Beyond the Fire Source C3.4 (c) E2 External Moisture, and F2 Hazardous Building Materials F2.3.1, providing:

- It is not damaged.
- Is installed in accordance with instructions.
- Is not left exposed for more than 30 days (roof) same day coverage recommended.
- Is not left exposed for more than 120 days (wall).
- Is installed by or under guidance of Licensed Building Practitioners.
- Is compatible with cladding system used*.

* **Note:** specifiers and product user must confirm roof and wall cladding system compatibility with the underlay before installation.

Covertek 407

Heavy duty self-supporting roof and wall underlay

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.
- Occupancy activities which have high moisture loading on conditioned spaces.
- Ceiling penetrations and entry of warm air into roof cavities.
- 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 to the NZ Metal Roof and Wall Cladding Code of Practice (COP) for details.

For passive ventilation of the roof space, it is recommended that all roof underlays are terminated at the ridge, and if not, it should be slit or slotted to allow for passive ventilation. (For further information refer to the NZ Metal Roof and Wall Cladding COP).

Product Warranty

Standard Kingspan Thermakraft Warranty applies. Refer to Kingspan Thermakraft Warranty statement for further details. This is available online at **thermakraft.co.nz** or call **0800 806 595.**

Recycling and Waste

All of our synthetic underlays are fully recyclable through saveBOARD™ New Zealand. For a recycling site nearest you, please contact **info@kingspaninsulation.co.nz** or visit us at **thermakraft.co.nz**.

Property Performance

The following data represents the minimum pass rates required by the NZBC. This product tests well beyond the minimum standards. If you require actual performance results, please contact your local Kingspan Insulation representative.

NZBC E2/AS1 Table C.2.1.1 (NZS2295:2006) Roof Requirements	Absorbency	Vapour Resistance	pH of Extract	Moisture Shrinkage	Water Resistance	Air Resistance
Property Performance Requirement	≥ 150gsm	≤ 7 MN.s/g	≥ 6.0 and ≤ 9.0	≤ 0.5%	≥ 100mm	≥0.1 MN.s/m3
Property Performance	Pass	Pass	Pass	Pass	Pass	Pass*

*Note: Can be used as an air barrier.

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0800 806 595
www.thermakraft.co.nz

Thermakraft and Ausmesh products are brought to you by Kingspan Insulation NZ Limited.

The recommendations contained in Kingspan'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 Kingspan (for example quality of workmanship and design), Kingspan 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 online. E&OE.

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