

Certificate no: CMNZ30030

Version: I

Original issue date: 29 June 2016

Version date: 30 July 2024

Renewal Date: 01 July 2025

Product Certificate

Thermakraft Covertex 405 Roof and Wall Underlay

1. Certificate Holder Details



Kingspan Insulation NZ Limited
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2. Product Certification Body

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Complaints: The complaints process for this certificate can be found here:
www.global-mark.co.nz/complaints

Global-Mark Managing Director.



Herve Michoux

3. Description of Building Method or Product

Thermakraft Covertex 405 Roof and Wall Underlay is a synthetic, fire retardant, absorbent, breathable building underlay for use under roof and wall claddings. The product consists of a micro-porous water-resistant film laminated between two layers of non-woven spun-bonded polyolefin. Thermakraft Covertex 405 Roof and Wall Underlay is coloured white on the top and bottom faces with yellow Covertex 405 branding on the exposed face.

4. Intended use of Building Method or Product

Thermakraft Covertex 405 Roof and Wall Underlay is an underlay for use under roof and wall claddings.

5. New Zealand Building Code Provisions

The System if designed, used, installed and maintained in accordance with this Certificate, the system will meet the following provisions of the NZBC:

Clause B2 DURABILITY: Performance B2.3.1(a), not less than 50 years, B2.3.1(b), 15 years and B2.3.2.

Clause C3 FIRE AFFECTING AREAS BEYOND THE FIRE SOURCE: Performance C3.4 (c)

Clause E2 EXTERNAL MOISTURE: Performance E2.3.2, E2.3.5, E2.3.6 and E2.3.7 when used as part of the roof or wall cladding system.

Clause F2 HAZARDOUS BUILDING MATERIALS: Performance F2.3.1.

6. Conditions and Limitations of Use

1. Thermakraft Covertex 405 Roof and Wall Underlay use certified
 - a. as self supporting roof underlay on buildings:
 - i. within the scope limitations of NZBC Acceptable Solution E2/AS1, Third Edition including amendment 10 (5 November 2020), Paragraph 1.1 with regards to building height and floor plan area; and,
 - ii. with
 1. masonry tile roof cladding; or,
 2. with metal tile roof cladding or
 3. profiled metal roof cladding; and,



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Certificate no: CMNZ30030

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Version date: 30 July 2024

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- iii. situated in NZS 3604-2011 and NASH Standard Part 2:2019 light steel framed buildings Wind Zones up to, and including Extra High.
- iv. with a roof pitch of 3° and above
- b. as flexible wall underlay for buildings:
 - i. within the scope limitations of
 - 1. NZBC Acceptable Solution E2/AS1, Third Edition including amendment 10 (5 November 2020), Paragraph 1.1 for timber-framed buildings; or,
 - 2. NASH Building Envelope Solutions: 2019-Light Steel Framed Buildings, Paragraph 1.1 for steel-framed buildings; and,
 - ii. with absorbent or non-absorbent wall claddings either direct fixed or installed over an 18 mm minimum drained cavity; or,
 - iii. with masonry veneer in accordance with
 - 1. NZBC Acceptable Solution E2/AS1 Third Edition including amendment 10 (5 November 2020) for timber-framed buildings or
 - 2. NASH Building Envelope Solutions for steel-framed buildings; and,
 - iv. situated in
 - 1. NZS 3604 and NASH Standard Part 2:2019 light steel framed buildings Wind Zones up to, and including, Very High; or,
 - 2. NZS 3604 and NASH Standard Part 2:2019 light steel framed buildings Wind Zones up to, and including, Extra High when used over a rigid wall underlay in accordance with NZBC Acceptable Solution E2/AS1 Third Edition including amendment 10 (5 November 2020) or NASH Building Envelope Solutions Paragraph 9.1.7.2.
- 2. Thermakraft Covertex 405 Roof and Wall Underlay shall be used and installed in accordance with all relevant technical information relating to the products use contained within Kingspan - Product data Sheet - Thermakraft Covertex 405 Self-supporting roof and wall underlay (Issue 7.0, April 2024) and Kingspan- Installation Guide - Thermakraft Covertex 405 Self-supporting roof and wall underlay (issue Issue 4.0, April 2024) and the BRANZ Appraisal No. 743 (2019) Amended 24 May 2024 Thermakraft Covertex 405 Roof and Wall Underlay (refer to www.branz.co.nz).
- 3. Thermakraft Covertex 405 Roof and Wall Underlay must not be exposed to the weather or ultraviolet light before being covered for a total of more than:
 - a. 7 days when used as a roof underlay
 - b. 60 days when used as a wall underlay.
- 4. Thermakraft Covertex 405 Roof and Wall Underlay must be separated or protected from heat sources such as fireplaces, heating appliances, flues and chimneys.
- 5. When used as a roof underlay,

Certificate no: CMNZ30030

Version: I

Original issue date: 29 June 2016

Version date: 30 July 2024

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- a. Thermakraft Covertex 405 Roof and Wall Underlay can be installed vertically or horizontally and must span no greater than 1200 mm in one direction between framing supports without additional underlay support. All underlay supports must be corrosion resistant material.
- b. In addition, at roof pitch less than 10°, the underlay must be installed horizontally unless installed over a roof underlay support.
6. When used as a wall underlay, in cavity installations where the cavity battens are installed at greater than 450 mm centres, Thermakraft Covertex 405 Roof and Wall Underlay must be restrained between the battens to prevent the underlay bulging into the cavity space when bulk insulation is installed in the wall frame cavity.

7. Health and Safety Information

Standard industry safety practices and manufacturer safety requirement as detailed in the technical literature including the applicable SDS must be observed at all times. When fixing the product in windy conditions, care must be taken due to the large sail area created.

8. Basis for Certification

The certification decision is based on independent technical review(s) of test report(s), engineering opinion(s) and other documented evidence(s), factory audit(s) and site review(s)

Code Clause	Compliance pathway	Evidence
Clause B2 DURABILITY	Acceptable solution - Test report	001, 002, 003 and 004
Clause C3 FIRE AFFECTING AREAS BEYOND THE FIRE SOURCE	Acceptable solution – Test report	001, 002, 003 and 004
Clause E2 EXTERNAL MOISTURE	Alternative solution - Expert judgement	001, 002, 003 and 004
Clause F2 HAZARDOUS BUILDING MATERIALS	Alternative solution - Expert judgement	001, 002, 003, 004 and 005

9. Supporting Documentation for Certification

Rev	Author	Description	Date and/or Revision
001	BRANZ	Thermakraft Covertex 405 Roof and Wall Underlay - BRANZ Appraisal No. 743 (2019) Amended 24 May 2024	24 May 2024



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Certificate no: CMNZ30030

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Renewal Date: 01 July 2025

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002 *	BRANZ	BRANZ Appraisals Means of Compliance – Basis of Appraisal - Thermakraft Covertex 405 Roof and Wall Underlay BRANZ Appraisal No. 743 (2019)	TV08005-005
003	Kingspan	Product data Sheet - Thermakraft Covertex 405 Self-supporting roof and wall underlay	Issue 7.0, April 2024
004	Kingspan	Installation Guide - Thermakraft Covertex 405 Self-supporting roof and wall underlay	Issue 4.0, April 2024
005	Kingspan	Thermakraft Covertex Safety Data Sheet	Issue 5.0, April 2024

* These documents were provided commercial in confidence and are not publicly available

10. Supporting Information About Description (Optional)

Thermakraft Covertex 405 Roof and Wall Underlay is supplied in rolls 1.250 m wide x 20m and 40 m long and 2.550m wide x 29.4m long. The product is printed with the Thermakraft Covertex 405 logo repeated along the length of the roll. The rolls are wrapped in clear polythene film.

Accessories used with Thermakraft Covertex 405 Roof and Wall Underlay which are supplied by the installer are:

- Fixings - stainless steel staples, clouts, screws or proprietary underlay fixings, or other temporary fixings to attach the roof underlay to the framing.
- Wall underlay restraint (timber frame) – polypropylene strap, 75 mm galvanised mesh or galvanised wire, or vertical cavity battens where required to restrain the wall underlay in accordance with NZBC Acceptable Solution E2/AS1, Third Edition including amendment 10 (5 November 2020), Paragraph 9.1.8.5.
- Wall underlay restraint (steel frame) – polypropylene strap, 75 mm galvanised mesh or galvanised wire, or vertical cavity battens where required to restrain the wall underlay in accordance with NASH Building Envelope Solutions: 2019-Light Steel Framed Buildings, Paragraph 9.1.9.5.
- Thermal break sheathing (steel framing) – in accordance with NASH Building Envelope Solutions: 2019-Light Steel Framed Buildings, Paragraph 11.4.3.2.

Thermakraft Covertex 405 Roof and Wall Underlay has an AS 1530 Part 2 – 1993 (including Amendment 1) flammability index of not greater than 5 and therefore meets the requirements of NZBC Acceptable Solutions C/AS2 amendment 3 (02 November 2023), 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.

11. Supporting Information About Intended Use (Optional)



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Thermakraft Covertex 405 Roof and Wall Underlay is intended for use as an alternative to conventional kraft paper roof and wall underlays. Thermakraft Covertex 405 Roof and Wall Underlay is suitable for use under wall claddings as a wall underlay on timber-framed buildings and on steel-framed buildings, including non-absorbent wall claddings such as vinyl and metal-based weatherboards in direct fixed situations.

Thermakraft Covertex 405 Roof and Wall Underlay is suitable for use as an air barrier where walls are not lined, such as attic spaces at gable ends, in accordance with NZBC Acceptable Solution E2/AS1 or NASH Building Envelope Solutions, Paragraph 9.1.4 (c).

The material also provides a degree of temporary weather protection during early construction, but the product will not make the building weathertight. Some wetting of the underlying structure is always possible before the cladding is installed. Hence, the entire building must be closed in and made weatherproof before moisture sensitive materials such as ceiling linings and insulation materials are installed.

12. Supporting Information About Conditions and Limitations of Use (Optional)

General

- [Part 7 of NZBC Acceptable Solutions C/AS2 amendment 3 \(02 November 2023\)](#), and [NZBC Verification Method C/VM1 Second Edition \(02 November 2023\)](#) provide methods for separation and protection of combustible materials from heat sources.
- Any damaged areas of Thermakraft Covertex 405 Roof and Wall Underlay, such as tears, holes or gaps around service penetrations, must be repaired. Damaged areas can be repaired by covering with new material lapping the damaged area by at least 150 mm and taping, or by taping small tears.

When used as a Roof underlay:

- Thermakraft Covertex 405 Roof and Wall Underlay must be fixed at maximum 300 mm centres to all framing members with large-head clouts 20 mm long, 6-8 mm stainless steel staples, self-drilling screws or proprietary underlay fixings. The membrane must be pulled taut over the framing before fixing.
- The roof underlay must extend from the ridge and overhang the fascia board by 20-25 mm.
- Vertical laps must be no less than 150 mm wide. Horizontal laps must also be no less than 150 mm, with the direction of the lap ensuring that water is shed to the outer face of the underlay. End laps must be made over framing and be no less than 150 mm wide. To assist with achieving the correct lap dimension, Thermakraft Covertex 405 Roof and Wall Underlay has a 150 mm lap line printed continuously along the top face.

When used as a wall underlay:

- Thermakraft Covertex 405 Roof and Wall Underlay must be run horizontally and must extend from the upper-side of the top plate to the under-side of the bearers or wall plates supporting ground floor joists, or below bottom plates on concrete slabs. Horizontal laps must be no less than 150 mm wide, with the direction of the lap ensuring that water is shed to the outer face of the underlay. End laps must be made over framing and be no less than 150 mm wide.
- Thermakraft Covertex 405 Roof and Wall Underlay should be run over openings and these left covered until windows and doors are ready to be installed. Openings are formed in the underlay by cutting on a 45 degree diagonal from each corner of the penetration. The flaps of the cut underlay must be folded inside the opening and stapled to the penetration framing. Excess underlay may be cut off flush with the internal face of the wall frame.



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- Thermakraft Covertex 405 Roof and Wall Underlay can be added as a second layer over head flashings in accordance with the requirements of NZBC Acceptable Solution E2/AS1, Paragraph 9.1.10.3 for timber framing or NASH Building Envelope Solutions Paragraph 9.1.11.3 for steel framing.
- NZBC Acceptable Solution E2/AS1 Third Edition including amendment 10 (5 November 2020), Paragraph 9.1.8.5 for timber frame or NASH Building Envelope Solutions: 2019-Light Steel Framed Buildings, Paragraph 9.1.9.5 for steel frame provide information on Wall underlay restraint options include polypropylene strap, 75 mm galvanised mesh or galvanised wire, vertical cavity battens or thermal break sheathing (steel frame only).

Signatures

If the signature does not fit on the first page in the column on the left please include the relevant signatures here:

Nil

All CodeMark certificates that are current must be registered with MBIE. MBIE maintains a register of valid product certificates. [Please find the register here.](#)

If the certificate is not listed on this register or it appears as (SUSPENDED), it is not a valid CodeMark certificate and does not have to be accepted by a building consent authority as establishing compliance with the New Zealand Building Code.



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