

Installation Guide

Thermakraft Covertek 407 Early Close Supplementary

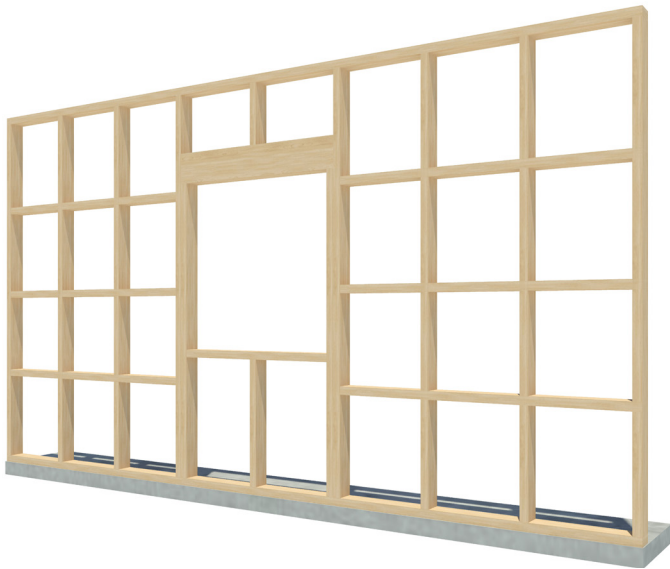


Covertex 407 Early Close Application Installation Instructions

To achieve CodeMark compliance, complete the Covertex 407 Early Close Certificate of Installation and submit it to info@kingspaninsulation.co.nz.

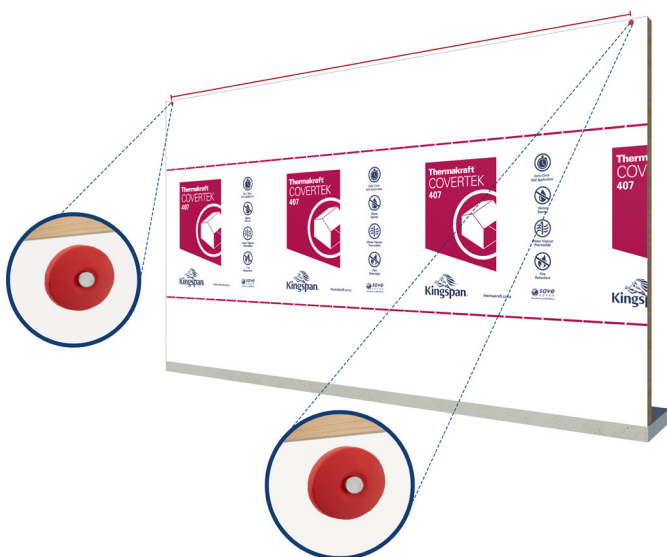
1. Preparation

Ensure all framing is free of splinters and sharp protrusions. Prepare Covertex 407 with the printed side facing the exterior and to be installed horizontally.



2. Application

- Covertex 407 may be fixed starting from the top of the framing. Ensure the underlay overhangs the bottom plate by a minimum of 50mm.
- Before fixing the underlay, confirm that there is appropriate air pressure for the nail gun. Align the gun perpendicular to the wall so the top edge of the cap of the nail will fix flush to the framing.



Horizontal Cladding (Vertical Battens)

Pull Covertex 407 taut and secure using capped nails, avoiding the stud-line. Fix into top plate for initial fixings and then into nogs. When fixing Covertex 407 underlay to steel framing the same procedure applies but use capped screws to fasten to the framing.

Fix Covertex 407 securely by using capped nails at maximum 300mm centres. Note: the fixed battens are considered as fixing points of the underlay.

Install as a continuous layer over all openings for windows, doors and other penetrations.

Vertical battens are installed as per the wall cladding manufacturer's recommendation, additional capped nails should be used around each opening to be cut.



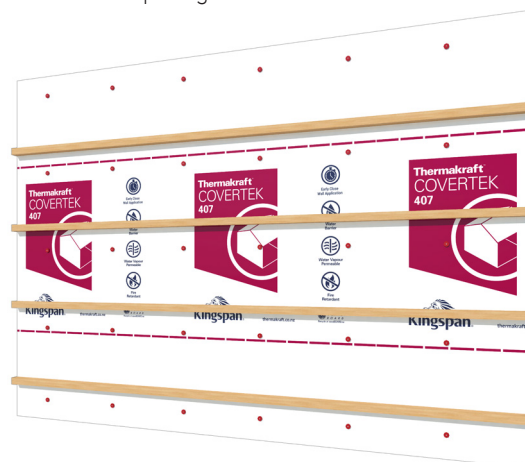
Vertical Cladding (Horizontal Battens)

Pull Covertex 407 taut and secure using capped nails, avoiding the nogs. Fix into studs, avoiding top and bottom plates. When fixing Covertex 407 underlay to steel framing the same procedure applies but use capped screws to fasten to the framing.

Fix Covertex 407 securely by using capped nails at maximum 300mm centres. Note: the fixed battens are considered as fixing points of the underlay.

Install as a continuous layer over all openings for windows, doors and other penetrations.

Horizontal battens are installed as per the wall cladding manufacturer's recommendation, additional capped nails should be used around each opening to be cut.



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- Battens must not be installed on top of capped nails and sit flush on the Covertex 407. Ensure battens are minimum 100mm away from the capped fasteners.
- A minimum of 150mm overlap is required at all joins. Horizontal laps to be laid shiplap style allowing water to be shed to the outer face of the underlay. Covertex 407 underneath the overlap can be stapled to the framing, otherwise use capped nails or screws for all fixings exposed to weather. All laps must be taped with either minimum 75mm wide Thermakraft Premium Joining Tape or Thermaflash.



Stud Strap or Thermastrap

- In accordance with NZBC Acceptable Solution E2/AS1 and NASH Building Envelope Solutions: 2019 (E2/AS4), wall underlay must be prevented from bulging with bulk insulation into the drained cavity. Where stud spacing is greater than 450mm, Thermakraft Stud Strap or Thermakraft Thermastrap is run horizontally at 300mm centres as an acceptable means of prevention. Fix strapping into framing with capped nails/screws.

3. Joining to Concrete or Masonry Junctions

- Where Covertex 407 joins to a different wall type e.g. a concrete or masonry wall or mid-floor, overlap Covertex 407 to the wall by minimum 30mm.

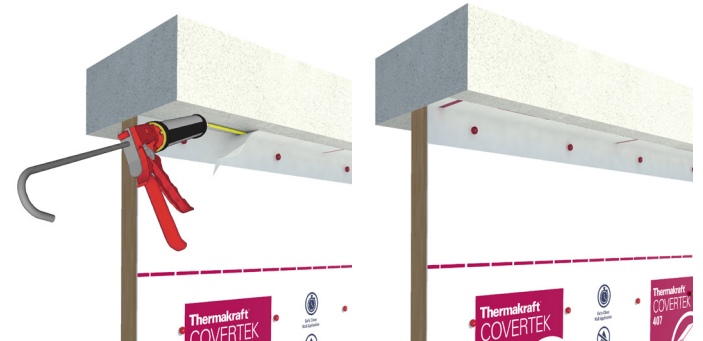
a. Masonry Wall



Apply compatible construction adhesive to the wall under the 30mm overlap to create a tight corner fit for Covertex 407. Ensure compatibility has been checked before use. A plastic scraper can be used to spread the adhesive blobs under the overlap. Use 75mm wide Thermakraft Premium Joining Tape or Thermaflash to seal the join on the masonry wall. Tape must be evenly applied to a clean and dry surface with sufficient pressure to ensure good adhesion – a plastic scraper can be used for this application.

Note: for difficult to bond surfaces, the Scotch Super 77 Spray Adhesive can be used to improve adhesion.

b. Mid-floor Junction



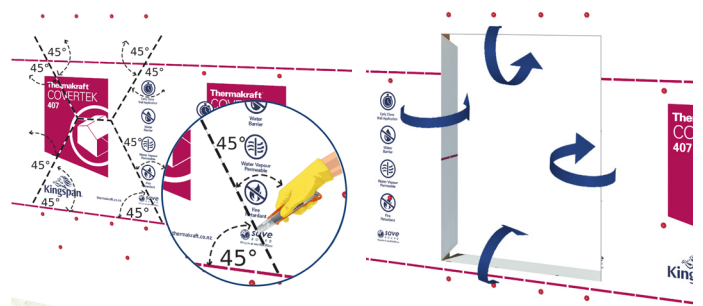
Apply a continuous bead of compatible construction adhesive to along the 30mm overlap to seal it to the concrete. Use a plastic scraper to ensure good adhesion. Ensure compatibility has been checked before use.

4. Slab Edge



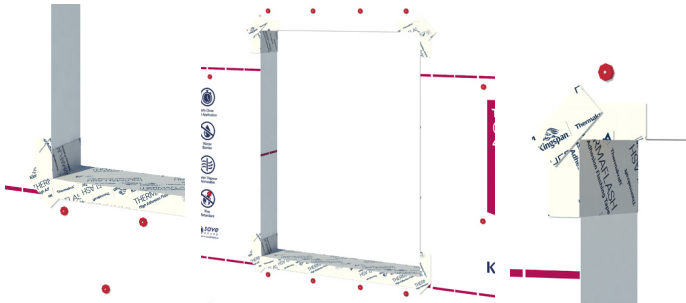
The Covertex 407 must over-hang from the bottom plate by 50mm and be sealed to the slab edge using a continuous bead of compatible construction adhesive and use a plastic scraper to ensure good adhesion.

5. Windows and Doors



When windows and doors are ready for installation, Covertex 407 underlay covering the openings should be cut at 45° and folded into the opening and securely fastened with staples to the inner edge of the frame.

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Use Thermoflash Window Flashing Tape and follow the Thermoflash Installation Guide for correct usage.

Flashings



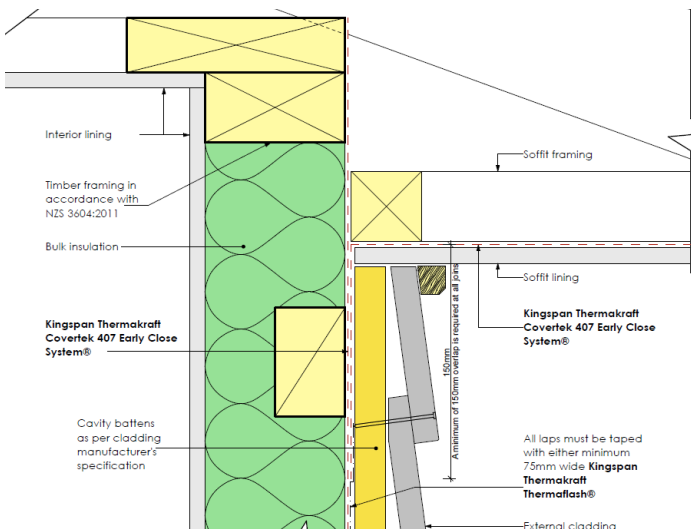
As per E2/AS1, a second layer of underlay above the head flashing is secured to and above the head flashing for weathertightness. The second layer of underlay extends above the head flashing and 150mm past both sides of the flashing is secured by capped nails and taped on all sides with 75 mm Thermoflash.

Install windows and doors to manufacturer's recommendations ensuring a weathertight seal is achieved. Thermoflash can be used with most wet sealants and expanding foams, check compatibility.

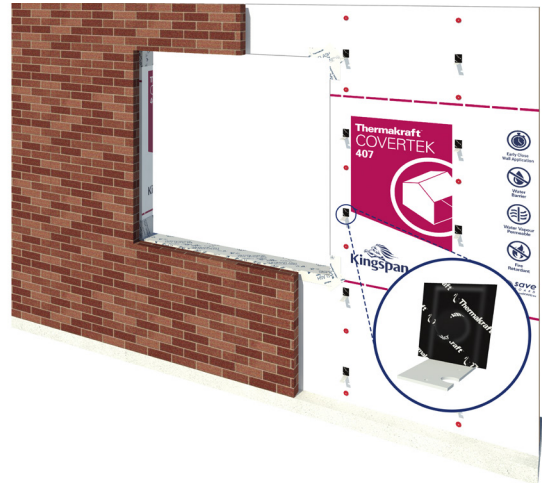
For apron flashings or inter-story flashings, an additional section of Covertex 407 must also extend beyond the flashing width by 150mm. Secure with capped nails and tape all laps with 75 mm Thermoflash.

Soffit:

If Covertex 407 is used under the soffit, ensure the Covertex 407 soffit section overlaps the Covertex 407 wall underlay by 150mm overlap and joints are taped to prevent potential water ingress.



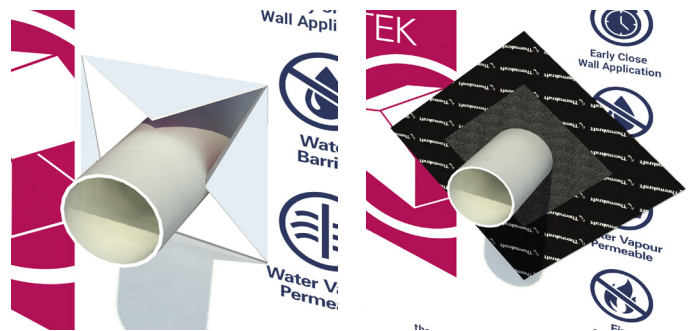
Brick Masonry Veneer:



Brick tie fixings need to be made weathertight by installing a minimum 75 x 75mm piece of Thermoflash or ThermoKraft Premium Joining Tape over the brick tie and screw to provide weather protection. Securely adhere the tape to Covertex 407 above the fixing and to the sides to allow water to shed over the fixing.

Install Supercourse 500 Damp Proof Course as required for secondary waterproofing for brick veneer.

6. Penetrations



For penetrations, use OneSeal Multi-Fit Cable and Pipe Penetration Seal or Thermoflash in a diamond orientation. OneSeal is self-adhesive and does not require additional taping. If other EPDM fabric seals are used, compatibility testing is advised and additional tape may be required to secure to Covertex 407. Check manufacturer recommendations. Ensure OneSeal is adhered to a clean and dry surface and that sufficient pressure is applied to ensure good adhesion i.e. a plastic squeegee can be used for this application.

OneSeal Multi-Fit Cable and Pipe Penetration Seal should be applied in a diamond shape for water run-off.

If penetrations are made weathertight with window flashing tape only, Thermoflash must be securely adhered around the penetration and underlay with no gaps, tears, or punctures to eliminate water ingress. Ensure all edges and surfaces of Thermoflash tape are fully adhered onto Covertex 407 and the penetration.

Repairing damage to Early Close Covertex 407 Wall Application

Repair small, damaged areas with Thermoflash tape or Premium Joining Tape. Any large areas which require repair may be covered with a second layer of Covertex 407, overlapped by 150mm and then

Covertex 407 Early Close Application Installation Instructions & Accessories

Post-Installation Frequent Quality Checks

Once complete, review Covertex 407 Early Close Wall Application Checklist for final check of workmanship.

To achieve Codemark compliance, complete the Covertex 407 Early Close Certificate of Installation and submit it to info@kingspaninsulation.co.nz. Council may require this to book pre-cladding inspection.

Check building site regularly and ensure that all joins remain taped. Any tears or damage must be taped and repaired immediately. Any large areas which require repair may be covered with a second layer of underlay – a lap of 150mm is required.

Ensure full adhesion of all penetrations and tapes.

If any lifting of penetrations or tapes are observed then repair or replace as necessary.

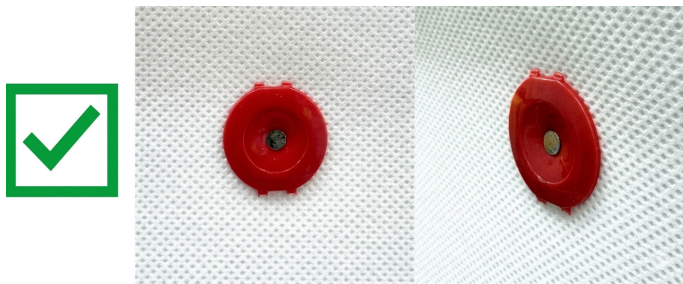
Accessories

- Stinger Cap Nail Gun CN100B and 25mm Cap Nails or Delfast Roll Cap Nail Gun (NEV-RCN25) with 25mm Cap Nails (FN-RCAP25).



If the cap nail gun is not set perpendicular to the frame, the cap nail can be misaligned, and this could be a potential water ingress point. Test cap nail application prior to mass use and adjust gun settings to ensure ideal installation.

Acceptable Cap Nail Fixing



Ensure that the cap is firmly secured around the nail penetration

Unacceptable Cap Nail Fixing



Angled nails create poor seal compression. Align gun perpendicular to frame.

Overdriven nails deform the cap increasing risk of water entry from the gaps. Check gun settings.

Underdriven nails reduces holding strength and increase risk of water ingress. Check gun settings.

When required, the builder may drive the cap nail flush to the underlay by a hammer or similar tool.



For steel framing, secure Covertex 407 using a self-tapping screw with cap for weathertightness.

- Thermaflash Window Flashing Tape



- Thermakraft Premium Joining Tape



- Thermakraft Stud Strap



- Thermakraft Thermastrap



- OneSeal Multi-Fit Cable and Pipe Penetration Seals or Similar EPDM fabric seal.



- Thermakraft Super Course 500



- Optional: Orange Corner Moulds



Covertex 407 Early Close Application Certificate of Installation



Please fill out all fields below and email a copy to info@kingspaninsulation.co.nz

CERTIFICATE OF INSTALLATION

Save Time - Complete Online.

Scan the QR Code to complete this form online now.



Manufacturer's details:	Kingspan Insulation NZ Limited		
Installer's company name:			
Date(s) of installation:		Quantity of material installed:	
Property/address where installation took place:		Batch number(s) of product installed: (Printed on roll edge)	
Location/zone where product(s) was installed:			
Comments on installation:			
Applicable installation instructions:	Followed all of install guide: YES / NO		If "NO", see below.
Name of engineer/architect responsible for deviation:			
We declare and confirm that the installation was completed as per the manufacturer's instructions.			
Installer signature:	Name:	Installer registration or approval number:	Date signed:
Installer supervisor signature:	Supervisor Name:	Supervisor registration or approval number:	Date signed:

A COPY OF THIS CERTIFICATE SHOULD BE PROVIDED TO THE BUILDER OR OWNER. COPY KEPT AS RECORD BY THE INSTALLATION COMPANY.



Product Warranty

Standard Kingspan Insulation Warranty applies. Refer to Kingspan Insulation Warranty statement for further details. This is available online at kingspaninsulation.co.nz; or call us on 0800 806 595; or email info@kingspaninsulation.co.nz

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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. For other applications or conditions of use, Kingspan Insulation offers a Technical Advisory Service, the advice of which should be sought for uses of Kingspan Insulation products that are not specifically described herein. Please check that your copy of the literature is current by contacting us or visiting www.kingspaninsulation.co.nz E&OE



