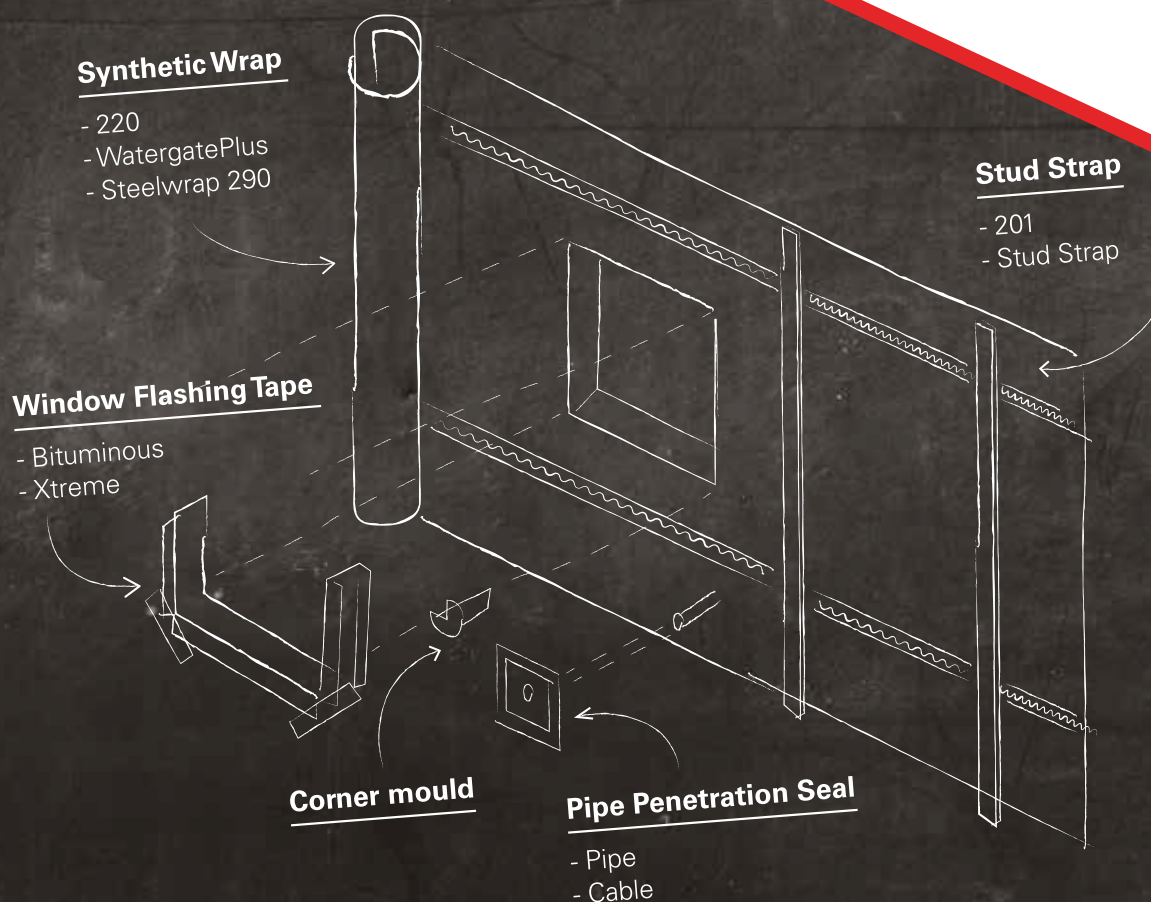


Thermakraft™

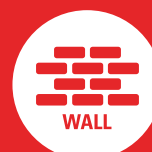
ONE WRAP SYSTEM

The Thermakraft flexible wall membrane system is a multi-product integrated system designed to assist with the passive control of air and moisture in buildings constructed in compliance with NZS3604:2011 and the requirements of all relevant compliance documents.

- ✓ 11 Products
- ✓ One System
- ✓ One BRANZ Appraisal
- ✓ One Warranty
- ✓ One Product Statement



ONE WRAP SYSTEM




BRANZ Appraised
Appraisal No.962 [2017]

Thermakraft One Wrap System

INTRODUCTION

Thermakraft Ltd has over 30 years of experience in providing Flexible roof and wall underlay solutions for the New Zealand building industry, products have been developed to satisfy the requirements of the various stakeholders in the industry. Designers, builders, homeowners and the regulators. With knowledge of the market and confidence in the products, Thermakraft has taken the step of having a System Appraisal to compliment the individual products appraisals this ensures compatibility and suitability of the Thermakraft products and system, with a full warranty back up.

PRODUCTS AND OVERVIEW

The Thermakraft flexible wall membrane system is a multi-product integrated system designed to assist with the passive control of air and moisture in buildings constructed in compliance with NZS3604:2011 and the requirements of all relevant compliance documents. (see Scope section). The products specified in the system are all compatible and comply with the relevant Performance Requirements of the NZBC. When installed as intended Thermakraft offers a full System Warranty.

The products covered by this system.

SECTION 1

Flexible Wall underlays



Watergate Plus 295

BRANZ Appraisal 695 [2017]

For all wall systems.

Watergate Plus is a fire retardant, flexible synthetic wall underlay for use under direct fixed and non-direct fixed wall cladding on timber and steel framed buildings. The product is manufactured from coated, non-woven polyolefin and is coloured white.



Steelwrap 290

BRANZ Appraisal 867 [2016]

Ideal for steel frame construction.

Steelwrap 290 is a fire retardant, flexible synthetic wall underlay for use under direct fixed and non-direct fixed wall cladding on timber and steel framed buildings. The product consists of a micro-porous water resistant film ultrasonically bonded to a layer of non-woven polyolefin and is coloured white.



Thermakraft 220

BRANZ Appraisal 912 [2016]

Ideal for Timber framing.

Thermakraft 220 is a fire retardant, flexible synthetic wall underlay for use under direct fixed and non-direct fixed wall cladding on timber framed buildings. The product is manufactured from non-woven, spun bonded polypropylene and is coloured white.



Covertex 403 Plus

BRANZ Appraisal 918 [2016]

Suitable for roof and wall use.

Covertex 403 Plus is a fire retardant, flexible synthetic wall underlay for use under direct fixed and non-direct fixed wall cladding on timber and steel framed buildings. The product consists of a micro-porous water resistant film ultrasonically bonded between two layers of non-woven polyolefin and is coloured white.

Window Flashing Tape

Aluband (Bituminous)

BRANZ Appraisal 878 [2014]

Thermakraft Aluband Window Flashing Tape in conjunction with the Thermakraft Corner moulded Piece is a flexible flashing tape system for use around framed joinery openings as a secondary weather resistant barrier. The system is installed into and around the framed joinery opening over the wall underlay and exposed frame to cover both the face and edge of the opening framing. Thermakraft Aluband Window

Aluband Xtreme

BRANZ Appraisal 947 [2017]

Aluband Xtreme has a high strength Co-polymer adhesive on a strong thin section tape ideally suited in tight fitting window installations. Aluband Xtreme is ideal where solvent based adhesives and sealants may be present.

Thermakraft Aluband Xtreme Window Flashing Tape in conjunction with the Thermakraft Corner moulded Piece is a flexible flashing tape system for use around framed joinery openings as a secondary weather resistant barrier. The system is installed into and around the framed joinery opening over the wall underlay and exposed frame to cover both the face and edge of the opening framing. Thermakraft Aluband Xtreme Window Flashing tape is also used at joinery heads to seal flashing upstands to the wall underlay.

Pipe and Cable Seals

Thermakraft Multi-fit cable and pipe seals

BRANZ Appraisal 942 [2016]

Manufactured from UV resistant EDPM material, with a strong acrylic adhesive tape. Designed to form an airtight seal on pipes, cables and other penetrations through underlays, Thermakraft Multi-Fit Pipe seals have pre-punched markings suitable for a range of sizes.

Associated, Non Appraised Products

Underlay strap

For underlay support and restricting bellowing of wall underlays.

Thermastrap Polypropylene woven strap 25mm.

Thermakraft Stud Strap 201 Polythene strap 19mm.

Joining and Repair Tape

White General purpose tape A polypropylene tape with an acrylic adhesive 60mm x 66m.

Thermakraft Xtreme Tape Co-polymer adhesive tape designed for use in extreme conditions with excellent performance in joining, sealing and repairing underlays.

SECTION 2

Technical Literature

Refer to the cited BRANZ appraisals for individual product code compliance information.

www.branz.co.nz/Appraisals

Refer to the Thermakraft website [www.thermakraft.co.nz] for details of the current Technical Literature for product information. The Technical Literature must be read in conjunction with the BRANZ appraisal. All aspects of design, use, installation and maintenance contained in the Technical Literature and within the scope of this Appraisal must be followed.

The above products are intended to be installed in accordance with the Thermakraft installation instructions (see appendix 2).

SECTION 3

Scope (see product Technical data sheets for individual suitability refer www.thermakraft.co.nz)

2.1 The Thermakraft One Wrap System has been developed for use as a flexible wall underlay system on timber and steel framed buildings within the following scope:

- the scope limitations of NZBC Acceptable Solution E2/AS1, Paragraph 1.1 with regards to building height and floor plan area; and,
- with direct fixed absorbent wall claddings; or,
- with direct fixed non-absorbent wall claddings (for Watergate Plus, Steelwrap 290 and Covertek 403 Plus wall underlays), or direct fixed non-metallic, non-absorbent wall claddings (Thermakraft 220), or,
- with absorbent and non-absorbent wall cladding installed over an 18 mm minimum drained cavity; or,
- with masonry veneer in accordance with NZBC Acceptable Solution E2/AS1 for timber framed buildings or specific design for steel framed building; and,
- situated in NZS 3604 Wind Zones up to and including Very High.

2.2 The Thermakraft One Wrap System has been appraised for use as a flexible wall underlay system over rigid wall underlays on timber and steel framed buildings within the following scope:

- the scope limitations of NZBC Acceptable Solution E2/AS1, Paragraph 1.1 with regards building height and floor plan area; and,
- with absorbent and non-absorbent wall claddings installed over an 18 mm minimum drained cavity; or,
- with masonry veneer in accordance with NZBC Acceptable Solution E2/AS1 for timber framed buildings or specific design for steel framed buildings; and,
- situated in NZS 3604 Wind Zones up to and including Extra High.

2.3 The Thermakraft One Wrap System is also suitable for use on buildings subject to specific weather tightness design. Building designers are responsible for the building design and for the incorporation of the Thermakraft One Wrap system into their design in accordance with the declared properties and the instructions of Thermakraft Limited.

SECTION 4

Building regulations

3. 1 The Thermakraft One Wrap System, if used, designed, installed and maintained in accordance with the statements and conditions of this system, will meet, or contribute to meeting 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. the Thermakraft One Wrap System meets these requirements.
- Clause E2 EXTERNAL MOISTURE: Performance E2.3.2. When used as part of the cladding system, Thermakraft One Wrap System will contribute to meeting this requirement.
- Clause F2 HAZARDOUS BUILDING MATERIALS: Performance F2.3.1. The Thermakraft One Warp System meets this requirement and will not present a health hazard to people.

Technical

The Thermakraft One Wrap System is a selection of Thermakraft products that when used in accordance with good design, correct product selection and installation will contribute to meeting the requirements of the NZ Building Code. The products included in the system are as noted above in section 1.

Limitations and conditions

1. Installation must always be carried out in accordance with the Thermakraft Technical literature and the BRANZ Appraisals by or under the supervision of a Licensed Building Practitioner with the relevant License Class.
2. The products must be handled and stored, whether on or off site, under the control of the installer. The products must be protected from damage and weather. They must be stored on end, under cover, in clean, dry conditions and must not be crushed.

APPENDIX 1: PRODUCT SUITABILITY TABLE - TABLE 1

| APPLICATION | WATERGATE PLUS 295 | STEELWRAP 290 | THERMAKRAFT 220 | COVERTEK 403PLUS |
|---|--|---------------|-----------------|------------------|
| Timber Framing | Y | Y | Y | Y |
| Steel framing | Y | Y | X | Y |
| NZBC 3604 Wind zone (up to and including) | 1. Very High, when used as a standalone flexible underlay 2. Extra High, when used in conjunction with a Rigid wall underlay. | | | |
| Suitable with a Drained cavity | Y | Y | Y | Y |
| Suitable to Direct fix behind | | | | |
| Timber | Y | Y | Y | Y |
| PVC | Y | Y | Y | Y |
| Profiled metal | Y | Y | X | Y |
| Suitable as an Air Barrier | Y | Y | X | Y |
| Fire retardant | Y | Y | Y | Y |
| SUITABLE WITH | | | | |
| Aluband (bituminous) | Y | Y | Y | Y |
| Aluband Xtreme | Y | Y | Y | Y |
| Penetration seals | Y | Y | Y | Y |
| Y= Suitable X= Not suitable The above is a reference guide See product data sheets for individual details approvals and compliances. | | | | |

| MAXIMUM EXPOSURE TIME PRIOR TO CLADDING | | | | | |
|---|--------------------|---------------|-----------------|-------------------|----------------------|
| Product | Watergate Plus 295 | Steelwrap 290 | Thermakraft 220 | Covertex 403 Plus | Aluband (Bituminous) |
| Max days exposure | 60 days | 42 days | 42 days | 42 days | 42 days |



11 Turin Place, East Tamaki, Auckland, NZ
P.O Box 58-112, Botany, Auckland 2163
Phone 0800 806 595 or +64 9 273 3727
Fax +64 9 273 3726
Email info@thermakraft.co.nz
www.thermakraft.co.nz

The recommendations contained in Thermakraft'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 Thermakraft (for example quality of workmanship and design), Thermakraft 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 on the website.