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SUMMARY OF FEATURES

- Codemark certified – AQ-090415-CMNZ.
- BRANZ appraised for use in all applications and all areas. BRANZ Appraisal No. 615 (2017).
- Lightweight, breathable, synthetic alternative to traditional building paper.
- Manufactured from UV resistant, spun-bonded polypropylene.
- Quiet in windy conditions.
- 100g/m² UV stabilised.
- Unique beige colouring significantly reduces glare.
- Available in rolls the full height of the wall making it quicker and more cost effective to install.
- Suitable for timber framed and steel framed structures.
- Absorbent.
- Fire retardant.
- 'Very high' wind rating when used as a stand-alone flexible building underlay.
- 'Extra high' wind rating when used as an overlay for rigid building underlays.
- Suitable for gable ends.

FASTWRAP DOES IT ALL!

Fastwrap Wall Underlay is appraised for use in **ALL AREAS** and **ALL APPLICATIONS**.

- ✓ Can be used on timber framed buildings
- ✓ Can be used on steel framed buildings
- ✓ Can be used with absorbent and non-absorbent wall claddings direct fixed
- ✓ Can be used with absorbent and non-absorbent wall claddings cavity fixed
- ✓ Can be used as an air barrier at unlined gable ends
- ✓ 'Very High' wind rating as a stand-alone building underlay
- ✓ 'Extra High' wind rating when used as an overlay for rigid building underlays
- ✓ Can be used as non-rigid backing for stucco plaster
- ✓ Can be used as a slip layer for stucco plaster over rigid backing

TECHNICAL INFORMATION

Product Description

Fastwrap Wall Underlay is a synthetic underlay for use under wall claddings on timber and steel framed buildings. The product is manufactured from an ultra-violet (UV) light resistant, non-woven, spun-bonded polypropylene. It has a beige coloured outer surface and a white inner surface.

Applications

- Fastwrap Wall Underlay can be used as a flexible wall underlay on **timber** framed buildings within the limitations of NZBC Acceptable Solution E2/AS1, Paragraph 1.1 with regards to building height and floor plan area; and with absorbent and non-absorbent wall claddings directly fixed to framing; with absorbent and non-absorbent wall claddings installed over an 18mm minimum drained cavity; with masonry veneer in accordance with NZBC Acceptable Solution E2/AS1; and situated in NZS 3604 Building Wind Zones up to, and including 'Very High'.



Wall Underlay

- Fastwrap Wall Underlay can be used as a flexible wall underlay on **steel** framed buildings within the limitations of NZBC Acceptable Solution E2/AS1, Paragraph 1.1 with regards to building height and floor plan area; with absorbent and non-absorbent wall claddings; with masonry veneer; and situated in NZS 3604 Building Wind Zones up to, and including 'Very High'.
- Fastwrap Wall Underlay has been appraised for use as a flexible wall underlay 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 to building height and floor plan area; and, with absorbent and non-absorbent wall claddings installed over an 18mm minimum drained cavity; and with masonry veneer in accordance with NZBC Acceptable Solution E2/AS1; and, situated in NZS 3604 Wind Zones up to and including 'Extra High'.
- Fastwrap Wall Underlay can also be used on buildings subject to specific weathertightness design.
- Fastwrap Wall Underlay is suitable for use as a non-rigid backing material for stucco plaster in accordance with the requirements of NZBC Acceptable Solution E2/AS1, Paragraph 9.3.5.1.
- Fastwrap Wall Underlay may also be used as a slip layer over rigid backings for stucco plaster in accordance with the requirements of NZBC Acceptable Solution E2/AS1, Paragraph 9.3.3(b).

Appraisals

- Codemark certified – AQ-090415-CMNZ.
- BRANZ Appraisal No. 615 (2017).

Product Information

- Fastwrap Wall is intended for use as an alternative to conventional building papers which are fixed over timber or steel framed walls in order to limit the entry of wind into building cavities, and to act as a secondary barrier to wind-driven rain.
- The material also provides a degree of temporary weather protection during early construction. However, the product will not make the building weather tight and some wetting of the underlying structure is always possible before the building is closed in. Hence, the building must be closed in and made weatherproof before moisture sensitive materials such as wall or ceiling linings and insulation materials are installed.
- Fastwrap Wall Underlay is suitable for use under wall claddings as a wall underlay as called up in NZBC Acceptable Solution E2/AS1, Table 23 on timber framed buildings.
- The underlay is suitable for use under cavity based wall claddings as an absorbent synthetic wall underlay as stated in NZS 2295, Table 2.4 on steel framed buildings.
- The underlay is suitable for use in all Wind Zones of NZS 3604 up to, and including, 'Very High' when used as a stand-alone flexible building underlay, and all Wind Zones of NZS 3604 up to, and including 'Extra High' when used as an overlay for rigid building underlays.
- Fastwrap Wall Underlay meets code compliance with NZBC Clause B2.3.1 (a), not less than 50 years for building underlays used where the cladding durability requirement or



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expected serviceable life is not less than 50 years, e.g. behind masonry veneer, and code compliance with NZBC Clause B2.3.1 (b), 15 years for building underlays used where the cladding durability requirement is 15 years. Provided it is not exposed to the weather or ultra-violet light for a total of more than 42 days, and provided the exterior cladding is maintained in accordance with the cladding manufacturer's instructions and the cladding remains weather resistant, the underlay is expected to have a serviceable life equal to that of the cladding.

- Fastwrap Wall Underlay must only be used behind claddings that meet the requirements of the NZBC, such as those covered by NZBC Acceptable Solution E2/AS1.
- Fastwrap Wall Underlay meets clause F2.3.1. of the Hazardous building materials, and will not present a health hazard to people.

Handling & Storage

The handling and storage of this product, whether on or off site, is under the control of the installer. The rolls must be protected from damage and weather. They must be stored on end, under cover, in clean, dry conditions and must not be crushed.

Technical Data

Fastwrap Wall Underlay is made of 100g/m² UV stabilised, non-woven spun-bonded polypropylene. It has a beige coloured outer surface which is printed with the Fastwrap branding, and a white inner surface.

Accessories used with the wall underlay which are supplied by the installer are:

- Fixings - staples, clouts, screws or proprietary underlay fixings, or other temporary fixings to attach the wall underlay to the framing.
- Building underlay support – Bayonet 75mm Premium-6 Hexagonal Wire Netting or Bayonet Premium-6 Wire, or vertical cavity battens where required to support the wall underlay in accordance with NZBC Acceptable Solution E2/AS1, Paragraph 9.1.8.5.

NZBC E2/AS1 TABLE 23 REQUIREMENTS

NZBC E2/AS1 Table 23 Wall Wrap Properties	Property Performance Requirement	Actual Property Performance
Absorbency	> 100g/m ²	Pass
Vapour Resistance	< 7 MN s/g	0.223 MN s/g
Water Resistance	>20mm	Pass
pH of Extract	> 6 and < 9	7.15
Shrinkage	< 0.5%	-0.10 % (stretched)
Mechanical	Edge tear and tensile strength	Edge tear (Average): Machine direction = 164 N, Cross direction = 97 N, Tensile strength (Average): Machine direction = 3.4 kN/m, Cross Direction = 1.95 kN/m
Air barrier	Air resistance: > 0.1 MN s/m ³	Average 0.120 MN s/m ³ . Fastwrap Wall Underlay is suitable for use as an air barrier



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Fastwrap Wall Underlay has an AS 1530 Part 2 Flammability Index of 4 and meets the requirements of NZBC Acceptable Solution C/AS1 Part 6, Table 6.2 for surface finish requirements for suspended flexible fabrics, and therefore it may be used with no restrictions in all buildings.

The flammability index of Fastwrap Wall Underlay has been tested in accordance with AS/NZS 1530.2.

The following tests have been carried out on the Fastwrap Wall Underlay in accordance with NZBC Acceptable Solution E2/AS1, Table 23:

- Tensile strength, edge-tear resistance and resistance to water vapour transmission in accordance with AS/NZS 4200.1.
- Shrinkage in accordance with AS/NZS 4201.3.
- Resistance to water penetration in accordance with AS/NZS 4201.4.
- Surface water absorbency in accordance with AS/NZS 4201.6.
- pH of extract in accordance with AS/NZS 1301.421s and air resistance to BS 6538.3.

Installation Information

Fastwrap Wall Underlay must be fixed to all framing members at maximum 300mm centres with large-head clouts 20mm long, 6-8mm staples, self drilling screws or proprietary underlay fixings. The underlay must be pulled taut over the framing before fixing.

When used on timber and steel framing, studs must be provided at maximum 600mm centres. Dwaags must be fitted flush between the studs at maximum 1200mm centres.

The 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 150mm 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 150mm wide.

The 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.

The underlay can also 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.

When fixing the underlay in windy conditions, care must be taken due to the large sail area created by wide roll widths.

Any damaged areas of the 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 150mm and taping, or by taping small tears.

In cavity installations where the cavity battens are installed at greater than 450mm centres, the underlay must be supported between the battens to prevent the underlay bulging into the cavity space when bulk insulation is installed in the wall frame cavity in accordance with the requirements of NZBC Acceptable Solution E2/AS1, Paragraph 9.1.8.5.



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The underlay is to be supported with Bayonet 75mm Premium-6 Hexagonal Wire Netting or plastic tape or wire, at 150mm centres run across the cavity battens to limit deflection to a maximum of 5mm in accordance with the requirements of NZBC Acceptable Solution E2/AS1, Paragraph 9.3.5.2.

Fastwrap Wall Underlay must be separated from fireplaces, heating appliances, flues and chimneys in accordance with the requirements of NZBC Acceptable Solution C/AS1 Part 9 for the protection of combustible materials.

Size Range Available

Product Code	Width (mm)	Length (m)	Total (m ²)	Weight (kg)	Barcode
WW2740100	2740	36.5	100	10.0	9421026721457
WW274050	2740	18.5	50	5.0	9421026721464
WW1370750	1370	36.5	50	5.0	9421026721327