



**FR1™**

Fire Retardant - Building Wrap

## SPECIFICATION



1. HT Green Concrete Underlay
2. Hydro™ Seal Bituminous treatment
3. Dry-Fix DPC
- 4. Building Wrap**
5. Wrapstrap™
6. Window Tape
7. Air Tight P.E.F Backing Rod

## PRODUCT DESCRIPTION

FR1 Wrap is a non-woven fire retardant, water resistant, breathable synthetic wall underlay for use under direct fixed and non-direct fixed wall cladding on timber framed and steel framed buildings. The product is manufactured from high quality synthetic spun

## PHYSICAL PROPERTIES

FR1 Building Wrap is a 100 gsm non-woven breathable composite building wrap. The following tests have been carried out 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
- Resistance to water penetration in accordance with AS/NZS 4201.1.4
- Surface water absorbency in accordance with AS/NZS 4201.6
- Air resistance to BS 6538.3
- Shrinkage in accordance with AS/NZS 4201.3
- pH of extract in accordance with AS/NZS 1301.421s
- Fire retardant in accordance with AS1530 Part 2 Flammability

## COMPATIBILITY

**FR1 Wall Wrap has been appraised for use as a flexible wall underlay on timber framed buildings within the following scope:**

- The scope limitations of NZBC Acceptable Solution E2/AS1, Paragraph 1.1; and,
- With absorbent and non-absorbent wall claddings directly fixed to the frame; 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 **'Very High'**

**FR1 Wall Wrap has been appraised for use as a flexible wall underlay on 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 directly fixed to the frame; 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 **'Very High'**

**FR1 Wall Wrap 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; 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'**



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### INSTALLATION

- 1 *Masons Building Wrap* must be fixed (with the printed side out) to all framing members at maximum 300 mm centres with large-head clouts 20 mm long, 6-8 mm staples, self drilling screws or proprietary underlay fixings. The membrane must be pulled taut over the framing before fixing.
- 2 *Masons Building Wrap* 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 75 mm wide, with the direction of the lap ensuring that water is shed to the outer face of the membrane. End laps must be made over framing and be no less than 150 mm wide.
- 3 The 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 membrane by cutting on a 45 degree diagonal from each corner of the penetration. The flaps of the cut membrane 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. Masons **Flashing Tape** needs to be installed around the openings prior to fitting the doors and windows.
- 4 *Masons Building Wrap* must be restrained from bulging into the drained cavity in accordance with NZBC Acceptable Solution E2/ AS1, Paragraph 9.1.8.5. Installing Masons **WrapStrap** - horizontal at 300mm centres - prevents the wrap and insulation from bulging.
- 5 *Masons Building Wrap* can be added as a second layer over head flashings in accordance with the requirements of NZBC Acceptable Solution E2/AS1, Paragraph 9.1.7(e).
- 6 When fixing the product in windy conditions, care must be taken due to the large sail area created by wide roll widths.
- 7 Any damaged areas of *Masons Building Wrap*, 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 with Masons **Flashing Tape**.

Provided Masons Wrap 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 manufacturers instructions and the cladding remains weather resistant, the wrap is expected to have a serviceable life equal to that of the cladding.

### DURABILITY



CODEMARK™  
CMA-CM40134

*FR1 Building Wrap* has been CodeMark certified to ensure it meets code compliance with NZBC Clause B2.3.1 (a), not less than 50 years for building wraps used where the cladding DURABILITY requirement or expected serviceable life is not less than 50 years.

### STORAGE

Masons Wrap whether on or off site should

- Be stored on end under a cover, in a clean and dry area
- Do not crush the rolls
- The rolls must be protected from damage

Masons Building Wraps	Roll Sizes	Masons Code
Masons FR1 Building Wrap - 50m <sup>2</sup>	H 2.74 m x L 18.24 m	FR1MPB2.74X50
Masons FR1 Building Wrap - 100m <sup>2</sup>	H 2.74 m x L 36.49 m	FR1MPB2.74X100
Masons FR1 Building Wrap - 50m <sup>2</sup>	H 1.37 m x L 36.50 m	FR1MPB1.37X50
Masons FR1 Building Wrap - 100m <sup>2</sup>	H 1.37 m x L 73 m	FR1MPB1.37X100