

Fire retardant absorbent breathable composite non-woven wall underlay

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	Level of assurance needed to demonstrate NZ Building Code Compliance <i>Supporting documentation should include technical information by manufacturer and either a BRANZ or independent Appraisal or CodeMark</i>
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	Thermakraft confirms that this minimum level of assurance has been met or exceeded by the following: BRANZ Appraisal 867
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Technical Statement

Scope of use

Steelwrap 290 is a Fire Retardant Absorbent Breathable Composite Non Woven Wall Underlay can be used as a wall underlay 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 wall and non-absorbent wall claddings directly fixed to framing; and,
- with absorbent and non-absorbent wall claddings installed over an 18mm minimum drained cavity; and
- with masonry veneer in accordance with NZS 3604; and,
- situated in NZS3604 Building Wind Zones up to, and including 'Very High as a standalone flexible underlay and Extra High wind zone when used in conjunction with a rigid underlay'.

Fire Retardant Absorbent Breathable Composite Non Woven Wall Underlay can be used as a wall underlay on timber framed buildings within the following scope:

New Zealand Building Code (NZBC)

The product will, if employed in accordance with the supplier's installation and maintenance requirements, assist with meeting the following provisions of the building code:

- **Clause B2 Durability:** Performance B2.3.1(a), B2.3.1(b), B2.3.2
- **Clause E2 External moisture:** Performance E2.3.2
- **Clause F2 Hazardous building materials:** Performance F2.3.1

Supporting Evidence

The product has and can make available the following additional evidence to support the above statements:



Product Criteria

Design requirements

Product Advantage:

- Can be used as a wall underlay on timber and steel framed buildings with absorbent and non-absorbent wall claddings direct fixed to framing.
- Can be used as a wall underlay on timber and steel framed buildings with absorbent and non-absorbent wall claddings installed over an 18mm minimum drained cavity.
 - Note: must not be used as a roof underlay
- Can be used as an air barrier where walls are not lined e.g attic spaces at gable ends, and is suitable for use in all Building Wind Zones of NZS3604 up to, and including 'Very High'.

Flammability:

- Has an AS1530: Part 2 Flammability Index of <5 and meets the requirements of NZBC Acceptable Solution C/AS1 Part 6 Table 6.2 surface finish requirements for suspended flexible fabrics.

Installation requirements

Steelwrap 290 must be fixed with printed side to the exterior. Must be applied to all exterior walls from below bearers to the top plate. Fix securely to the frame with fasteners such as galvanized Little

Thermakraft Wall Underlay Steelwrap 290

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Grippers, 6mm-8mm staples or 20mm large head galvanized clouts at 300mm centres horizontally and vertically. When fixing underlay to Steel framing the same procedures applies, use adhesive spray or tape or flat head screws to fasten to the framing, the exterior cladding fastenings will act as the permanent fixings. Additional fasteners should be used around each opening to be cut out. If using either 2740mm or 1370mm width, a minimum of 150mm lap is required at joins and all vertical laps must be made over studs. Make good repairs on any forced tears with White GP Tape.. Initially, cover all windows and door openings It is recommended that the wall underlay is not cut and prepared for window installation until the arrival of the windows.

Maintenance requirements

No regular maintenance required.

Warrantees

For Warrantee details see link

http://www.thermakraft.co.nz/sites/default/files/Warrantee_Statement_0.pdf

Company Product Information

Environmental

Watergate plus has no known negative environment conditions

Watergate has no VOCs in manufacture installation or use

Watergate plus is recyclable at end of life with no harmful residue



Date last validated: **13 October 2023**



Date last updated: **20 February 2019**

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