



SYNTHETIC WALL UNDERLAY

The ultimate wrap, all walls, all systems

Watergate Plus 295 is a fire retardant, absorbent, breathable wall underlay. It is a white composite Non-woven polypropylene, specifically designed as a wall underlay behind exterior wall cladding. Watergate Plus 295 also offers a high degree of water resistance, with a high level of water vapour permeability.

ADVANTAGES

- » Can be used as a wall underlay on timber and steel framed buildings with absorbent and non-absorbent wall cladding direct fixed to framing.
- » Can be used as a wall underlay on timber and steel framed buildings with absorbent and non-absorbent wall cladding installed over an 18mm minimum drained cavity.
- » Is suitable for use in all Wind Zones of NZS 3604 up to, and including, "Very High", when used as standalone flexible underlay, and Extra High when used as a flexible underlay over a rigid wall underlay.
- » Will provide temporary weather protection during construction. (Max 60 Days).
- » Can be used as a non-rigid backing material for Stucco Plaster.*
- » May be used as a slip layer over rigid backing for Stucco Plaster.*
- » Is fire retardant.*
- » Unaffected by LOSP treated timber.
- » Is suitable as an air barrier in unlined walls.

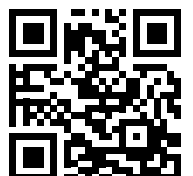
* Refer technical specifications



For additional details and latest specifications www.thermakraft.co.nz or scan QR code.



BRANZ Appraised
Appraisal No.695 [2017]



Thermakraft Watergate Plus 295 – Technical Specification

Fire Retardant | Breathable | Absorbent | Non Woven | Wall Underlay

Thermakraft Watergate Plus 295 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, with regards to building height and floor plan area; and,
- » With absorbent wall claddings directly fixed to timber and steel framing; and,
- » With non-absorbent wall claddings directly fixed to timber and steel framing; and,
- » With absorbent and non-absorbent wall claddings installed over an 18mm minimum drained cavity;
- » With masonry veneer in accordance with NZS 3604, NZBC Acceptable Solution E2/AS1 for timber framed buildings, or specific engineering design for steel framed buildings; and,
- » Situated in NZS3604 Building Wind Zones up to, and including 'Very High' when used as a standalone flexible underlay, and "Extra High" when used as a flexible underlay over a rigid wall underlay.
- » Can be used 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. The Underlay must be supported with 75mm galvanized mesh, or Thermakraft Stud Strap at 150mm centres run across cavity battens to limit deflection to a maximum of 5mm.
- » May also be used as a slip layer over rigid backing for Stucco Plaster in accordance with the requirements of NZBC E2/AS1 Paragraph 9.3.3(b).
- » Refer BRANZ Appraisal No 695 (2010) for full details.
- » May be used with LOSP treated timber.
- » Is suitable as an air barrier in unlined wall spaces.
- » Is suitable to be used in conjunction with thermal breaks on steel framed buildings.
- » Is suitable for direct fixing behind metal cladding.

Flammability Index

Thermakraft Watergate Plus 295 Wall Underlay has an AS 1530 Part 2 Flammability Index of not greater than 5 and therefore meets the requirements of NZBC Acceptable Solutions C/AS2 to C/AS6, Paragraph 4.17.8 b), for the surface finish requirements of suspended flexible fabric used as an underlay to exterior cladding that is exposed to view in occupied spaces. It may therefore be used with no restrictions in all buildings.

Limitations

- » Must not be used as a roof underlay.

Durability

Meets the Performance Requirements of NZBC Clauses B2, Durability (B2.3.1 (a) 50 years, B2.3.1 (b) 15 years and B2.3.2), E2 External Moisture (E2.3.2), and F2 Hazardous Building Materials F2.3.1, providing

- » It is not damaged.
- » Installed in accordance with instruction guide.
- » Is not left exposed for more than 60 days.
- » Installed by or under guidance of Licensed Building Practitioners.
- » Is compatible with cladding system used.

Table 1: NZBC E2/AS1 wall underlay requirements

NZBC E2/AS1 TABLE 23 (NZS2295) WALL UNDERLAY PROPERTIES	PROPERTY PERFORMANCE REQUIREMENTS	PROPERTY PERFORMANCE
Absorbency	≥ 100gsm	Pass
Vapour Resistance	≤ 7 MN.s/g	Pass
pH of Extract	≥ 5.5 and ≤ 8	Pass
Shrinkage	≤ 0.5%	Pass
Water Resistance	≥ 20mm	Pass
Air Resistance	≥ 0.1 MN.s/m ³	295 can be used as an air barrier

Roll Dimensions

WIDTH (MM)	LENGTH (M)	M ²
1370	18.5	25
1370	37.0	50
1370	73.0	100
2740	18.5	50
2740	36.5	100

*M² is the roll size for actual coverage, allow for laps and joins.



For additional details and latest specifications www.thermakraft.co.nz



BRANZ Appraised
Appraisal No.695 [2017]



Customer Services
0800 806 595

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

INTELLIGENT MEMBRANES FOR THE BUILDING INDUSTRY

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.