



AXXIS® steel for framing by New Zealand Steel

SYNTHETIC WALL UNDERLAY

Ideal for Steel Framed Buildings

Thermakraft SteelWrap 290 is a fire retardant, absorbent, breathable composite non-woven wall underlay for use behind exterior wall claddings, designed especially for use in Steel Frame construction.

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.
- » Can be used as an Air Barrier where walls are not internally lined.
- » Will provide temporary weather protection during construction (Max 42 days)
- » 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.
- » Can be used as a non-rigid backing material for Stucco Plaster*.
- » May also be used as a slip layer over rigid backing for Stucco Plaster*
- » Unaffected by LOSP treated timber.
- » May be used an air barrier in unlined walls such as Gable ends.

* Refer technical specifications



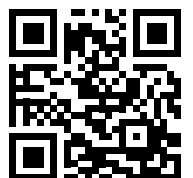
BRANZ Appraised
Appraisal No.867 [2016]



CODEMARK
BRANZ-CM-1001



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



Thermakraft Steelwrap 290 - Technical Specification

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

Specifically suitable for use on Steel framing

Can be used as a wall underlay on steel and timber 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 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 NZBC Acceptable Solution E2/AS1 for timber framed buildings, or specific engineering design for steel framed buildings; and,
 - » Situated in NZS3604 Wind Zones 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.
 - » 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 Hand Held or wire at 150mm centres run across 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
 - » 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 867 (2016) for full details
- » May be used with LOSP treated timber
 - » Is suitable as an air barrier in unlined wall spaces
 - » Is recommended to be used in conjunction with thermal breaks on steel framed buildings
 - » Is suitable for direct fixing behind metal cladding.

Limitations

Must not be used as a roof underlay.

Flammability Index

Thermakraft 290 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.

Durability

Meets or contributes to meeting 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 instructions
- » Is not left exposed for more than 42 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 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	290 can be used as air barrier

Roll Dimensions

WIDTH (MM)	LENGTH (M)	M ²
2740	36.5	100
2740	18.5	50
1370	73	100
1370	36.5	50

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



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



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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.