

Damp proof membrane 300-micron polyethylene film made from recycled materials

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Level of assurance needed to demonstrate NZ Building Code Compliance

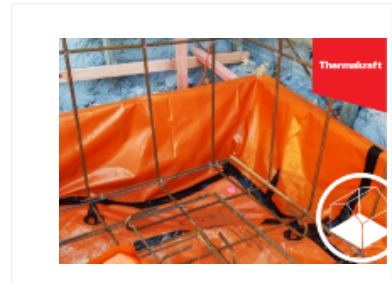
Supporting documentation should include self-assessment and technical information by manufacturer



Kingspan Thermakraft confirms that this minimum level of assurance has been met or exceeded by the following:

BRANZ Appraisal

[1104](#)



masterspec partner

Company Contact Details



Company: Kingspan Insulation New Zealand Ltd

Physical Address: 11 Turin Place
Otara
Auckland

Postal Address: PO Box 12825
Penrose
Auckland

Email: technical@kingspaninsulation.co.nz

Website: www.kingspaninsulation.co.nz

Technical Statement

Product Description

Thermathene Orange is a 300 micron concrete underlay that is made from a puncture and tear resistant polyethylene film.

Thicker and stronger than conventional polythene, it is also commonly known as Damp Proof Membrane (DPM).

Scope of use

Thermathene Orange is intended for use as a damp-proof membrane separating concrete slab from ground soil.

The product acts as a vapour barrier to stop ground moisture penetrating the concrete. Thermathene Orange must be sealed with Thermakraft White General Purpose tape, Thermakraft Premium Joining Tape or Aluband/Thermaflash Window Flashing Tape at the laps joints to form a complete vapour barrier.

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)
Clause B2 DURABILITY: Performance B2.3.1 (a) not less than 50 years. Thermathene Orange Concrete Underlay meets this requirement.
- **Clause E2 External moisture:** Performance E2.3.3
Clause E2 EXTERNAL MOISTURE: Performance E2.3.3. Thermathene Orange Concrete Underlay meets this requirement.
- **Clause F2 Hazardous building materials:** Performance F2.3.1
Clause F2 HAZARDOUS BUILDING MATERIALS: Performance F2.3.1. Thermathene Orange Concrete Underlay meets this requirement.

Evidence

The product meets the requirements set out in the following documents, or relevant parts of cited standards within the documents:

Thermathene Orange is an acceptable solution as per the requirements of the NZBC.

Thermathene Orange meets the requirements of NZBC 3604:2011 Clause 7.5.4.2, NZBC Acceptable Solutions E2/AS1, Table 23 and NZS 4229:2013 Clause 7.4 & 7.6.

When Thermathene Orange is used and installed as a damp-proof membrane as per Kingspan Thermakraft's literature, the product will meet or contribute to meeting the following provisions of the NZBC: Clause B2 Durability: Performance B2.3.1 (a), 50 years, Clause E2 External Moisture: Performance E2.3.3 & Clause F2 Hazardous Materials: Performance F2.3.1.

Refer to BRANZ Appraisal No. 1104 [2020] for full details.

Supporting Evidence

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



BRANZ Appraisal
[1104](#)

Product Criteria

Design requirements

[Thermathene Orange Data Sheet](#)

Installation requirements

[Thermathene Orange Install Guide](#)

Maintenance requirements

No regular maintenance required.

Warrantees

[Kingspan Thermakraft Warranty Statement](#)

Company Product Information

Quality Assurance



ISO 9001 (Quality Management)

Relationships



Member of New Zealand Green Building Council



Date last validated: **09 October 2023**



Date last updated: **09 October 2023**

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