

Insulation panels installed on the outside of a roof that are protected by a waterproof membrane.

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Level of assurance needed to demonstrate NZ Building Code Compliance

Supporting documentation should include technical information by manufacturer and either a BRANZ or independent Appraisal or CodeMark



Viking Roofspec confirms that this minimum level of assurance has been met or exceeded by the following:
BRANZ Appraisal
[713 \(2018\)](#)

Technical Statement

Product Description

The Viking Warm Roof System insulates a building from the outside as the insulation is installed on top of the roof structure. The system includes rigid polyisocyanurate (closed-cell foam) sheets with a waterproofing membrane adhered on top (Viking Enviroclad, Epiclاد or Bituclad (seeing the craft paper facer can be torched to). A vapour barrier is installed in regions with extreme climatic variances and cool stores.

A Viking Warm Roof moves the dew point to the outside of the building, meaning no damp or rotten materials inside the roof cavity. The cavity is free of insulation making it clear for wiring and negating the need for ventilation. A F.A.S.T. adhesive option is available to secure panels to the substrate (avoids mechanical fasteners and therefore some thermal bridging).

Viking Warm Roof is suited to low-slope roofs, and is ideal for overlaying any old roof surface, preventing the dumping of the old roof and exposing the building's interior as the roof is replaced. Electricity savings from the building's new energy efficiencies can amortise the reroof cost as quickly as 8 years after installation (depending on the polyiso thickness and colour of membrane). Significantly higher R-values are achieved with polyiso panels (uniformly across the entire roof; not just in parts). The system's thermal performance helps achieve Green Star points for a building. The rigid insulation sheets add structural integrity to the roof while the wide-sheet membrane means fewer seams and greater waterproofing integrity.

Other features:

- BRANZ Appraised No. 713 (2011).
- Backed by a 20-year product warranty, and for specific projects, is eligible for Viking's Full System Warranty, which covers the product and installation in one document.
- Tapered panel option - maximum watershed.
- Polyiso sheets: 25mm, 50mm, 75mm thicknesses, 1.2m wide, 2.27m long.
- Highest R-Value - maximum ROI.
- Highest possible fire performance rating (Group 1-S).

Scope of use

The Viking Warm Roof System has been appraised for use as an insulating roof on buildings within the following scope:

- The scope limitations of NZBC Acceptable Solution E2/AS1, Paragraph 1.1 with regards to building height and maximum floor plan areas; and,
- On limited access flat roofs with concrete, timber or steel structural decks subject to specific structural design; and,
- With roofs constructed to drain water to gutters and drainage outlets complying with the NZBC; and,
- With roofs constructed to suitable falls (Refer Paragraph 15.3 and 15.4 of the [BRANZ Appraisal](#)); and,
- With no integral roof gardens; and,
- Situated in NZS 3604 Building Wind Zones, up to, and including 'Extra high'.

New Zealand Building Code (NZBC)



masterspec partner

Company Contact Details



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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 B1 Structure:** Performance B1.3.1
- **Clause B2 Durability:** Performance B2.3.1, B2.3.1(b)
- **Clause E2 External moisture:** Performance E2.3.1, E2.3.2
- **Clause F2 Hazardous building materials:** Performance F2.3.1
- **Clause H1 Energy efficiency :** Performance H1.3.1, H1.3.1(a)

Supporting Evidence

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



BRANZ Appraisal
713 (2018)

Product Criteria

Design requirements

Product specification and incorporation of Viking Warm Roof Systems into the building design shall be carried out by a designer/architect/engineer or a building professional who:

- Is qualified to design the building under the 'Scope' of use of this product.
- Has ready access to the technical specifications including installation details and standards referenced in the BRANZ Appraisal where the design limitations are outlined for the scope of this PTS.

The Viking Warm Roof System comes with a range of accessories including a vapour barrier, fasteners and F.A.S.T. adhesive. [Click here for a comprehensive list of accessories.](#)

Installation requirements

Installation shall be carried out by a Viking Roofspec trained and licensed installer. Installation shall be undertaken in accordance with all relevant technical information related to the selected installation method, including information contained within the BRANZ Appraisal. Long term properties of the material may be affected by contact with petroleum-based products such as oils, greases and solvents.

Maintenance requirements

The membrane roof system must be regularly checked (at least annually) checked for damage, rubbish and debris. Damage, such as small punctures and tears must be repaired and coatings reapplied as recommended by Viking Roofspec Ltd. Special care must be taken when inspecting the membrane roof systems to ensure the continuing prevention of moisture ingress, and repairs must be undertaken when required. Drainage outlets must be maintained to operate effectively.

Warrantees

The Viking Warm Roof System is backed by a 20-year product warranty. For specific projects, Viking Warm Roof can be eligible to be covered by Viking's Full System Warranty, which covers the product and installation in one document.

Company Product Information

Environmental

- Overlay option - avoid dumping the old roof.
- Reduction in energy consumption - less energy required for air conditioning and heating.
- The thermal performance of the Warm Roof System helps towards achieving Green Star points for a building.
- As a Warm Roof is insulated from the outside of the building, thermal performance is increased.
- No CFC's in the manufacture of a Warm Roof.
- Various other environmental benefits as a result of using Viking Enviroclad Membrane. For a list of these, check the bottom of the Enviroclad PTS here.

Quality Assurance



ISO 9001 (Quality Management)

Relationships

Viking Roofs spec Warm Roof System

Product Technical Statement: 102934



Member of New Zealand Green Building Council



BRANZ 713

Videos

[How a Viking Roofs spec Warm Roof is constructed](#)



Date last validated: **14 September 2023**



Date last updated: **14 September 2023**

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