

Viking Epiclad

Version: EP-PTS-V1

Product description

EPDM (ethylene propylene diene monomer) rubber membrane is a synthetic rubber. It is a durable and flexible material that is commonly used in commercial and residential buildings due to its resistance to weathering, tearing, and ozone. EPDM rubber membrane is available in various thicknesses and widths. It is installed using adhesive or mechanical fastening systems. It requires minimal maintenance and is considered to have a long lifespan.

Viking Epiclad is a synthetic rubber waterproofing membrane system made from EPDM rubber polymer. Epiclad is supplied as a single-ply, flexible synthetic rubber sheet in roll form.

Epiclad is highly resistant to UV, ozone, and weathering. It possesses strong elasticity, tensile and elongation properties - a timber building's substrate will flex and move, especially during the change in seasons. Epiclad will not split or tear under this kind of movement. It is known as its 'elongation at break' property (480%) which means it copes significantly better than other membranes put under equal duress.

Epiclad has wide-sheets (fewer seams), so it is ideal for more expansive, open commercial and residential projects, such as roofs, waterproofing under decks, balconies, parapets, wider gutters, pond liners and reservoirs. It is particularly useful for areas with irregular angles, curves, and contours as it is a very pliable material and can readily mould to difficult designs and shapes. Epiclad is formulated to suit a wide range of climatic conditions, including inland and coastal.

Purpose and use

- Viking Epiclad Membrane has been appraised for use as a waterproofing membrane for buildings within the following scope:
- Scope limitations of NZBC Acceptable Solution E2/AS1, Paragraph 1.1; and,
- With timber supporting structures designed and constructed in accordance with the NZBC; and,
- With nominally flat or pitched roofs constructed to drain water to gutters and drain outlets complying with NZBC; and,
- With substrates of plywood sheet and concrete structures.

Viking Epiclad Membrane has also been appraised for use as a waterproofing membrane for external concrete and plywood roofs and decks for buildings within the following scope:

- Up to 3 storeys with a maximum height from ground to eaves of 10m and with a floor plan area limited only by seismic and structural control joints.

Conditions

- The product is suitable for use as a roof and deck waterproofing membrane on buildings within the scope limitations of NZS 3604:2011 and NZBC Acceptable Solution E2/AS1, Paragraph 1.1, or NZBC Acceptable Solution E2/AS1, Paragraph 1.1 with regards to building height and floor plan area when subject to specific structural design.
- The product is suitable for use in NZS 3604:2011 Wind Zones, up to, and including Extra High.
- The product can be used on substrates of plywood, suspended concrete slab, PIR Polyiso Insulation, or SIP's, subject to specific structural and weathertightness design.
- The weathertightness design of junctions for each specific structure is the responsibility of the building designer.
- Epiclad will assist with meeting the provisions of the New Zealand Building Code clauses B1 and B2, provided it is employed in accordance with the supplier's installation and maintenance requirements.
- Epiclad is suitable for use in all Climate Zones as defined in NZBC H1/AS1 and all Exposure Zones as defined in NZS3604.
- Epiclad should be protected with a floating deck surface on pedestals.
- The product has proprietary accessories available to ensure a complete water-tight roof system.

It is important to note that these conditions must be carefully considered and followed to ensure the product performs as expected and meets the building code requirements. The building designer and installer should refer to the technical statement for specific installation and maintenance requirements to ensure a successful project outcome.

July 2023

PRODUCT TECHNICAL STATEMENT



Compliance with the New Zealand Building Code

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

Design, construction, and installation instructions

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

Is qualified to design the buildings covered 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 No. 307 (2013) where the design limitations are outlined for the scope of this PTS.

Installation Requirements

Installation of the structural Roof elements must always be carried out in accordance with the Viking System Technical Literature and under the supervision of a Licensed Building Practitioner (LBP) with the relevant License Class.

Installation of the Viking supplied system 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 current Branz Appraisal, Viking Epiclad PDS and Viking Epiclad Installation Guides

Maintenance Requirements

The membrane roof system must be regularly checked (twice annually) for damage, rubbish, and debris particularly around drainage points. 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.

*Refer to maintenance care guide for specified membrane:

Quality assurance

- Branz Appraisal No 703
- Masterspec
- Viking Epiclad Details
- Viking Epiclad PTS
- Viking Epiclad PDS

Warranty information

Viking Epiclad is backed by Vikings 20-year product warranty with Certificate of Workmanship provided by Viking Approved Applicator companies. Specific projects may be eligible for Viking's Full System Warranty (FSW), which must be applied for directly with Viking Roofspec and is a process that warranties the full installation of product and workmanship in one document, conditions apply. Viking Roofspec only supply Viking Membrane to our Approved Applicator network of Viking Licensed Installers.

FSW: Only Approved Applicator Companies with Installers licensed to Level 2 of Viking training may install for Viking Full System Warranty projects - Contact Viking Roofspec for more information

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