



BRANZ Appraised

Appraisal No. 826 [2024]

VIKING PEEL & STICK MEMBRANE

Appraisal No. 826 [2024]

This Appraisal replaces BRANZ
Appraisal No. 826 [2019]

Amended 16 April 2025



BRANZ Appraisals

Technical Assessments of products for
building and construction.



Viking Roofspec Ltd

PO Box 14 541
Panmure
Auckland

Free Phone: 0800 729 799

Free Fax: 0800 729 788

Email: info@vikingroofspec.co.nz

Web: www.vikingroofspec.co.nz



BRANZ

BRANZ

1222 Moonshine Rd,
RD1, Porirua 5381
Private Bag 50 908
Porirua 5240,
New Zealand
Tel: 04 237 1170
branz.co.nz



Product

- 1.1 Viking Peel & Stick Membrane is a self-adhesive damp-proof membrane (DPM) for basement retaining walls and floors.

Scope

- 2.1 Viking Peel & Stick Membrane has been appraised as a DPM for use:
- on buildings subject to non-specific design under floor slabs complying with NZS 3604 and behind concrete masonry basement walls and under floor slabs complying with NZS 4229; and,
 - on buildings subject to specific design with substrates of insitu or precast concrete complying with NZS 3101 or concrete masonry complying with NZS 4230 and 4210; and,
 - where subsoil drainage and free draining granular backfill has been placed behind basement walls.
- 2.2 Viking Peel & Stick Membrane must be adequately protected against damage during backfilling and in service.
- 2.3 The product must be installed by Viking Roofspec Ltd approved applicators.

Building Regulations

New Zealand Building Code (NZBC)

- 3.1 In the opinion of BRANZ, Viking Peel & Stick Membrane, if designed, used, installed and maintained in accordance with the statements and conditions of this Appraisal, will meet the following provisions of the NZBC:

Clause B2 DURABILITY: Performance B2.3.1 [a] not less than 50 years. Viking Peel & Stick Membrane meets this requirement. See Paragraph 11.1.

Clause E2 EXTERNAL MOISTURE: Performance E2.3.3. Viking Peel & Stick Membrane meets this requirement. See Paragraphs 13.1–13.3.

Clause F2 HAZARDOUS BUILDING MATERIALS: Performance F2.3.1. Viking Peel & Stick Membrane meets this requirement.

Technical Specification

4.1 Materials supplied by Viking Roofspec Ltd are as follows:

- **Viking Peel & Stick Membrane** – a self-adhesive sheet membrane consisting of rubberised asphalt laminated to polyethylene. The membrane is 1.5 mm thick and supplied in rolls 0.914 m wide x 20.4 m long.
- **Tanking Primer** – a fast drying, solvent-based contact adhesive. It is supplied in 5 US gallon pails.
- **Tanking Primer WB** – a fast drying, water-based contact adhesive. It is supplied in 5 US gallon pails.

Handling and Storage

5.1 Handling and storage of all materials, whether on-site or off-site, is under the control of the installer. Dry storage must be provided for all products and the membranes must be protected from sunlight and ultraviolet (UV) radiation. Rolls of membrane must be stored on end.

Technical Literature

6.1 This Appraisal must be read in conjunction with:

- Viking Roofspec Ltd Details, 1/03/2022.
- Product Data Sheet, July 2023.

6.2 All aspects of design, use, installation and maintenance contained in the Technical Literature and within the scope of this Appraisal must be followed.

Design Information

General

- 7.1 Viking Peel & Stick Membrane is applied to the exterior face of basement retaining walls and on site concrete under concrete slab-on ground to prevent water vapour penetrating to the interior face in spaces where moisture may cause damage.
- 7.2 The membrane is a self-adhering, cold-applied, polymer-rubber modified bitumen sheet in roll form and is applied as single layer system.

Substrate Design

- 7.3 Substrate design must be in accordance with the NZBC to a relevant standard, such as NZS 3101 for concrete, and NZS 4229 or NZS 4230 for concrete masonry.
- 7.4 The substrate must have a surface finish that is smooth, clean and free from defects or irregularities which may damage the membrane or allow water to be trapped behind the membrane.

Control Joints

- 8.1 Where control or construction joints are formed in the substrate, Viking Roofspec Ltd must be consulted for use of the membrane over these joints.

Concrete Slab-on-Ground

- 9.1 The membrane must be laid on a minimum of 75 mm thickness of site concrete. The structural concrete slab placed over the membrane must be a minimum of 100 mm thick.

Backfilling and Drainage

- 10.1 The membrane must be protected against damage by the placement of a protection material between the membrane and the granular fill. Minimum protection requirements are:
 - [a] 6 mm corflute.
 - [b] 30 mm polystyrene foam sheet.
 - [c] a proprietary drainage board system.
- 10.2 The backfilling must be a granular, free-draining material with the top of the backfill capped with an impervious clay fill which may be covered with topsoil if required. The impervious capping and topsoil must slope with a minimum of 1:30 fall away from the wall.
- 10.3 The subsoil drainage system must have a minimum 100 mm diameter pipe with openings to collect water, a geotextile filter fabric or other filter material to prevent silting of the pipe, have access for cleaning the subsoil pipe, and be a minimum 200 mm below the floor level and a sloped minimum 1:200 fall to a drainage outlet.
- 10.4 After backfilling, the installation is completed with a termination bar and sealant in accordance with the details contained within the Technical Literature to protect the upper edge of the membrane.

Durability

Serviceable Life

- 11.1 Viking Peel & Stick Membrane is expected to have a serviceable life of at least 50 years, provided it is installed and maintained in accordance with this Appraisal and is continually protected from sunlight and UV radiation.

Maintenance

- 12.1 Annual inspections must be made of the membrane's termination bar and sealant and protection, the backfill capping, and the drainage pipe to ensure all are functioning as originally designed.
- 12.2 If required, the drainage pipe must be cleared to remove any sediment or silt build-up. The slope of the backfill capping must be maintained at all times.

External Moisture

- 13.1 Viking Peel & Stick Membrane, when installed in accordance with this Appraisal and the Technical Literature, will prevent water vapour from penetrating to the interior face of basement retaining walls and floors in spaces where moisture may cause damage. The membrane has a vapour flow resistance of not less than 90 MN s/g.
- 13.2 The membrane is self-adhesive and can be used to form sealed joints and to seal penetrations. The top edge of the membrane must be sealed to the wall as set out in the Technical Literature and be protected.
- 13.3 Building designers must ensure junctions with other membranes, such as at the floor/wall junction, form a waterproof joint. These junctions have not been assessed and are outside the scope of this Appraisal.

Installation Information

Installation Skill Level Requirement

- 14.1 Installation of the membranes must be completed by trained applicators, approved by Viking Roofspect Ltd.
- 14.2 Installation of substrates must always be carried out in accordance with the Viking Peel & Stick Membrane Technical Literature and this Appraisal, by, or under the supervision of, a Licensed Building Practitioner [LBP] with the relevant Licence Class.

System Installation

Substrate Preparation

- 15.1 All surfaces must be checked to ensure they are dry, clean, smooth and free from sharp edges, loose or foreign materials, oil, grease or other deleterious material that may affect adhesion or may damage the membranes.

Priming

- 15.2 All substrates must be primed before application of the membrane. Viking Roofspec Ltd should be contacted to confirm the most suitable primer. Application instructions for the primers are contained in the technical data sheets.

Membrane Installation - Walls

- 15.3 Starting at the lowest point, the membrane must be installed in accordance with the Technical Literature. Sheet edges and ends must be overlapped in accordance with the Technical Literature. Internal and external corners must be reinforced with an extra layer of membrane 300 mm wide. Protection material must be installed before backfilling. Backfilling must commence immediately after the membrane is installed to ensure the membrane is not left exposed to sunlight or UV radiation for longer than 30 days. The backfilling should be coordinated with the membrane installer.

Membrane Installation - Floors

- 15.4 The under-slab membrane must be installed in accordance with the Technical Literature. Sheet edges and ends must be overlapped in accordance with the Technical Literature. The membrane must be inspected for damage and any damage must be repaired in accordance with the Technical Literature. The membrane must not be exposed to UV radiation for any longer than 30 days before the structural concrete slab is placed.

Inspections

- 15.5 The Technical Literature and the approved applicator Quality Control sheets must be referred to during the inspection of the membrane installation.

Health and Safety

- 16.1 Safe use and handling procedures for the membrane is provided by Viking Roofspec Ltd.

Basis of Appraisal

The following is a summary of the technical investigations carried out:

Tests

- 17.1 The following testing of Viking Peel & Stick Membrane has been undertaken by various organisations for thickness, elongation, puncture resistance, low temperature pliability, water absorption, vapour permeability, adhesion to concrete with and without primer, tensile strength, shear strength, crack bridging, resistance to fungi and hydrostatic pressure resistance.
- 17.2 Test methods and results have been reviewed by BRANZ and found to be satisfactory.

Other Investigations

- 18.1 A durability opinion has been given by BRANZ technical experts.
- 18.2 Practicability of installation has been assessed by BRANZ and found to be satisfactory.
- 18.3 The Technical Literature has been examined by BRANZ and found to be satisfactory.

Quality

- 19.1 The manufacture of the Viking Peel & Stick Membrane has been examined on behalf of BRANZ, including methods of quality control.
- 19.2 The quality of materials supplied to the market is the responsibility of Viking Roofspec Ltd.
- 19.3 Quality of installation on-site is the responsibility of the Viking Roofspec Ltd approved installer.
- 19.4 Designers are responsible for the building design, and building contractors are responsible for the quality of construction of substrate systems in accordance with the instructions of Viking Roofspec Ltd.
- 19.5 Building owners are responsible for the maintenance of the membrane system in accordance with the instructions of Viking Roofspec Ltd.

Sources of Information

- NZS 3101:2006 Concrete structures standard.
- NZS 3604:2011 Timber-framed buildings.
- NZS 4229:2013 Concrete masonry buildings not requiring specific engineering design.
- NZS 4230:2004 Design of reinforced concrete masonry structures.
- Ministry of Business, Innovation and Employment Record of amendments - Acceptable Solutions, Verification Methods and handbooks.
- The Building Regulations 1992.

Amendments

Amendment No. 1, dated 16 April 2025

This Appraisal has been amended to update the Appraisal holder name.



In the opinion of BRANZ, **Viking Peel & Stick Membrane** is fit for purpose and will comply with the Building Code to the extent specified in this Appraisal provided it is used, designed, installed and maintained as set out in this Appraisal.

The Appraisal is issued only to **Viking Roofspect Ltd**, and is valid until further notice, subject to the Conditions of Appraisal.

Conditions of Appraisal

1. This Appraisal:
 - a) relates only to the product as described herein;
 - b) must be read, considered and used in full together with the Technical Literature;
 - c) does not address any Legislation, Regulations, Codes or Standards, not specifically named herein;
 - d) is copyright of BRANZ.
2. **Viking Roofspect Ltd:**
 - a) continues to have the product reviewed by BRANZ;
 - b) shall notify BRANZ of any changes in product specification or quality assurance measures prior to the product being marketed;
 - c) abides by the BRANZ Appraisals Services Terms and Conditions;
 - d) warrants that the product and the manufacturing process for the product are maintained at or above the standards, levels and quality assessed and found satisfactory by BRANZ pursuant to BRANZ's Appraisal of the product.
3. BRANZ makes no representation or warranty as to:
 - a) the nature of individual examples of, batches of, or individual installations of the product, including methods and quality of work;
 - b) the presence or absence of any patent or similar rights subsisting in the product or any other product;
 - c) any guarantee or warranty offered by **Viking Roofspect Ltd**.
4. Any reference in this Appraisal to any other publication shall be read as a reference to the version of the publication specified in this Appraisal.
5. BRANZ provides no certification, guarantee, indemnity or warranty, to **Viking Roofspect Ltd** or any third party.

For BRANZ



Claire Falck
Chief Executive
Date of Issue:
01 July 2024