

Viking Roofspec Bituclad4 Waterproofing Membrane

Product Technical Statement: 104628



Underground waterproofing system providing protection from water ingress for below-ground structures

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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

[864 \(2014\)](#)

Technical Statement

Product Description

The Viking Bituclad4 Membrane is a modified-bitumen, torch-on, damp-proof membrane (DPM) waterproofing system for vertical and horizontal tanking applications. It is primarily applied to the outside of a sub-structure of a building (such as a foundation or basement) to prevent water ingress.

Other forms of tanking where Bituclad4 can be used include under floor slabs, behind masonry walls, the lining of substrates of in situ or precast concrete; retaining walls, cellars, lift shafts, tunnels, plaza decks, roof gardens and planter boxes.

Viking Bituclad4 is comprised of a 4mm thick reinforced-polyester and fibreglass SBS (styrene butadiene styrene) modified-bitumen membrane which is torch-applied for maximum adhesion to a compatibly primed surface. The inherent reinforcement in the sheet maximises the tensile strength necessary to deal with latitudinal movement of the substrate. The Bituclad4 system consists of the membrane, bituminous primer, bituminous gum, protection boards and drainage boards,

Bituclad4 has a cold flexibility down to -15 degrees Celsius. Being 4mm thick, it possesses very high puncture resistance as well as very high chemical resistance. Bituclad4 resists hydrostatic pressure and is mechanically strong.

Bituclad4 comes in rolls 4mm thick x 1.0m wide x 10m long. It is BRANZ Appraised No.864 (2014) and holds a 20-year product warranty. Viking Roofspec is an active member of the Waterproofing Membrane Association Inc. (W.M.A.I.); an incorporation of companies whose goal is to lift the standard of waterproofing in New Zealand. The W.M.A.I. is formulating a "Tanking Code of Practice" for the Department of Building and Housing.

Scope of use

Viking Bituclad4 DPM 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 in situ or precast concrete complying with NZS 3101 or concrete masonry complying with NZS 4230; and,
- Where subsoil drainage and free draining granular backfill has been placed behind basement walls.

Viking Bituclad4 DPM Membranes must be adequately protected against damage during backfill and in service.

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 B1 Structure:** Performance B1.3.1
- Clause B2 Durability:** Performance B2.3.1, B2.3.1(a), B2.3.2, B2.3.2(a)
- Clause E2 External moisture:** Performance E2.3.3
- Clause F2 Hazardous building materials:** Performance F2.3.1

Supporting Evidence

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



BRANZ Appraisal

[864 \(2014\)](#)

Product Criteria



masterspec partner

Company Contact Details



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Design requirements

Product specification and incorporation of Viking Bituclad4 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. 864 \(2014\)](#) where the design limitations are outlined for the scope of this PTS.

Accessories in the Viking Bituclad4 system include bituminous primer (20L), bituminous gum, protection boards and drainage boards. [Click here to read more about Bituclad4's 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 No. 864 (2014).
- Long term properties of the material may be affected by contact with petroleum-based products such as oils, greases and solvents.

Maintenance requirements

- Annual inspections must be made of the membrane's top edge seal and protection, the backfill capping, and the drainage pipe to ensure all are functioning as originally designed.
- 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.

Warrantees

The Viking Bituclad4 system is backed by a 20-year product warranty.

Company Product Information

Quality Assurance



ISO 9001 (Quality Management)

Relationships



Member of New Zealand Green Building Council



BRANZ 864



Date last validated: **04 May 2016**



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