

Viking Roofspec Enviroclad F.B.S. (Fleece-backed) Membrane

Product Technical Statement: 104533



Fleece-backed waterproof membrane. Reroofing solution installed over old bitumen or rough substrate.

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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:

CodeMark

BRANZ Appraisal
[656 \(2020\)](#)

Technical Statement

Product Description

Viking Enviroclad FBS is a reroofing solution installed over old bitumen or rough substrates such as concrete and tongue and groove, to create a watertight roof finish.

It is a fleece-backed roofing membrane consisting of:

- 1.4 mm layer polyester fleece-backing
- 1.14mm of Enviroclad TPO roofing membrane

The 2 are factory laminated together. When installed the fleece-back bonds with the substrate, transforming an ugly roof surface into an aesthetically gratifying roof.

- High impact and UV resistant.
- 33% greater puncture resistance than most bitumen systems.
- Available in grey or white and offers solar reflectivity.
- Overlaying negates any costs associated with stripping, reconstructing and reconditioning the current roofing surface and no redesigning costs.
- Overlaying avoids exposing the interior of the building to the changing weather conditions as the roof is replaced.
- No need to dump the old roof reducing wastage costs and avoiding filling the local land-fill.

Scope of use

Viking Enviroclad FBS has been assessed as a roof and deck waterproofing membrane on buildings within the following scope:

- The scope limitations of NZS 3604:2011 and NZBC Acceptable Solution E2/AS1, Paragraph 1.1; or,
- The scope limitations of NZBC Acceptable Solution E2/AS1, Paragraph 1.1 with regards to building height and floor plan area when subject to specific structural design; and,
- Situated in NZS 3604:2011 Wind Zones, up to, and including Extra High; and,
- With substrates of plywood or suspended concrete slab.

Viking Enviroclad FBS has also been assessed for use as a roof and deck waterproofing membrane on specifically designed buildings within the following scope;

- Subject to specific structural and weathertightness design situated in wind pressures up to a maximum differential ultimate limit state (ULS) of 2.7kPa; and,
- With substrates of plywood or suspended concrete slab.
- With the weathertightness design of junctions for each specific structure being the responsibility of the building designer.

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, B1.3.2, B1.3.3, B1.3.3(a), B1.3.3(c), B1.3.3(e), B1.3.3(h), B1.3.3(m), B1.3.3(p), B1.3.4, B1.3.4(b), B1.3.4(c),



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B1.3.4(d), B1.3.4(e)

- **Clause B2 Durability:** Performance B2.3.1, B2.3.1(b), B2.3.2, B2.3.2(a)
- **Clause E2 External moisture:** Performance E2.3.1, E2.3.2, E2.3.7, E2.3.7(b), E2.3.7(c)
- **Clause F2 Hazardous building materials:** Performance F2.3.1

Evidence

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

Please refer to the CodeMark certificate for all evidence of compliance.

Supporting Evidence

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



CodeMark



BRANZ Appraisal
[656 \(2020\)](#)

Product Criteria

Design requirements

Product specification and incorporation of Viking Enviroclad FBS 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 both the Viking Enviroclad BRANZ Appraisal No. 656 and where the design limitations are outlined for the scope of this PTS.

Enviroclad FBS is supplied as a complete system with proprietary heat-weldable accessories to deal with roof penetrations including internal and external corners and pourable pockets. [Click here for a comprehensive list of all accessories.](#)

Installation requirements

- Installation shall be carried out by a Viking Roofspec licensed installer.
- Installer must complete the Substrate Checklist: concrete (September 2013) or Substrate Checklist: plywood (March 2015).
- For a full list of installation requirements, please refer to the website.

Maintenance requirements

- Maintenance requirements for Enviroclad FBS are outlined in Viking's 'Membrane Care and Maintenance Guide'.
- In the event of damage to the membrane, the membrane must be repaired by an approved applicator only who can remove the damaged portion and heat weld a patch as for new work.
- Drainage outlets must be maintained to operate effectively.

Warrantees

The Viking Enviroclad FBS system is backed by a 20-year product warranty. For specific projects, Enviroclad FBS may be eligible for Viking's Full System Warranty, which covers the product and installation in one document for a 20-year period.

Company Product Information

Environmental

Enviroclad FBS is ENERGY STAR rated and Cool Roof Rating Council certified in the USA. In New Zealand, Enviroclad FBS will contribute points to a building's Green Star Rating. Other environmental benefits include:

- Product supplied cut-to-length means minimal waste.
- 100% recycling of off-cuts during its manufacturing process.
- Solar reflectivity - lower energy usage for cooling buildings (white Enviroclad FBS offers 92% solar reflectivity).
- Its ability to be installed over existing membranes means no dumping of old product in to local land-fill.
- Enviroclad FBS is officially potability-certified for collecting drinking water off a roof.
- Heat weldability means no oil-based tapes and primers.
- It can be installed using mechanical fastenings which negates the need for adhesive if desired.

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Quality Assurance



ISO 9001 (Quality Management)

Relationships



Member of New Zealand Green Building Council



Date last validated: **07 July 2020**



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