

Certificate no: CMNZ30058

Version: F

Original issue date: 28/03/2018

Version date: 19/06/2024

Renewal Date: 19/06/2027

## 1. Certificate Holder Details



**Viking Roofspec, A Division of Viking Group Ltd**  
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## 2. Product Certification Body

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**Complaints:** The complaints process for this certificate can be found here:  
[www.global-mark.co.nz/complaints](http://www.global-mark.co.nz/complaints)

## Global-Mark Managing Director.



Herve Michoux

# Product Certificate

## Viking Enviroclad Roofing and Deck Membrane System

### 3. Description of Building Method or Product

Viking Enviroclad Roofing and Deck Membrane System is a single ply, polyester fabric reinforced, thermoplastic polyolefin (TPO) waterproofing sheet membrane for flat or pitched roofs and decks. It can be applied as a fully bonded or mechanically fixed system.

### 4. Intended use of Building Method or Product

Viking Enviroclad Roofing and Deck Membrane System is a roof and deck waterproofing membrane system.

### 5. New Zealand Building Code Provisions

Viking Enviroclad Roofing and Deck Membrane System if designed, used, installed and maintained in accordance with the scope of this Certificate will comply with or contribute to compliance with the following performance provisions of the NZ Building Code:

Clause B1 STRUCTURE:	Performance B1.3.1, B1.3.2 and B1.3.4, for the relevant physical conditions of B1.3.3 (a), (b), (c) & (h)
Clause B2 DURABILITY:	Performance B2.3.1 (b) 15 years and B2.3.2 (a)
Clause E2 EXTERNAL MOISTURE:	Performance E2.3.1, E2.3.2 and E2.3.7
Clause F2 HAZARDOUS BUILDING MATERIALS:	Performance F2.3.1

Water Supplies: Water is not contaminated by Viking Enviroclad Roof and Deck Membrane System which complies with AS/NZS 4020:2005.

### 6. Conditions and Limitations of Use

- 1) Viking Enviroclad Roofing and Deck Membrane System is certified for use as a roof and deck waterproofing membrane:
  - a) on buildings:
    - i) within the scope limitations of NZS 3604:2011 and NZBC Acceptable Solution E2/AS1, Third Edition including amendment 10 (5/11/2020), Paragraph 1.1, or
    - ii) within the scope limitations of NZBC Acceptable Solution E2/AS1, Third Edition including amendment 10 (5/11/2020), Paragraph 1.1 with regards to building height and floor plan area when subject to specific structural design, and
    - iii) situated in NZS 3604:2011 Wind Zones, up to and including Extra High, and
    - iv) with substrates of plywood, Cross Laminated Timber (CLT), Stransarking® (roof only) or concrete slab, and
    - v) with a minimum fall of 1 in 30 (2 degrees) for plywood roofs, 1 in 60 (1 degrees) for concrete, 1 in 40 (1.5 degrees) for decks and 1 in 100 (0.5 degrees) for gutters, and



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- b) on specifically designed or existing buildings:
    - i) subject to specific structural and weathertightness design situated in wind pressures up to a maximum design differential ultimate limit state (ULS) specified in #2 below, and
    - ii) with substrates of plywood, Cross Laminated Timber (CLT), Stransarking® (roof only) or concrete slab, and
    - iii) with a minimum fall of 1 in 30 (2 degrees) for plywood roofs, 1 in 60 (1 degrees) for concrete, 1 in 40 (1.5 degrees) for decks and 1 in 100 (0.5 degrees) for gutters, and
  - c) where the membrane on a trafficable deck is continually protected by a pedestal protection system and the membrane on a trafficable area of a roof is protected by an Enviroclad walkway.
- 2) Subject to the structural limitations of the substrate, Viking Enviroclad Roof and Deck Membrane Systems is certified for use:
    - a) up to a maximum design differential Ultimate Limit State wind pressure of 6.5kPa when installed using the standard method of fully bonded with heat welded seams, or
    - b) up to a maximum design differential Ultimate Limit State wind pressure of 2.7 kPa when installed using either of the mechanical fastenings methods, HP-X Fasteners and Piranha Plates or Rhino Bond System.
  - 3) Viking Enviroclad Roofing and Deck Membrane System shall be:
    - a) designed and installed in accordance with the requirements of the BRANZ Appraisal 656 (2020) – Amended 28 March 2024 and the Technical Literature “Viking\_Roofspec\_EnviroClad\_Details\_201123”, dated 23 November 2020, and
    - b) Installed by a Viking Roofspec trained and licensed installer.
  - 4) APEEL™ protective film applied to some membranes for protection during construction shall be removed within 90 days of installation.
  - 5) For existing buildings, the suitability of the roof or deck shall be confirmed by a professional qualified to design buildings within the scope specified in Condition #1.
  - 6) Product specification and incorporation of the Viking Enviroclad Roofing and Deck Membrane System into the building design shall be carried out by a competent building professional, qualified to design buildings within the scope specified in Condition #1.
  - 7) This certification does not include:
    - a) details not covered by the Technical Literature, which shall be subject to specific weathertightness design, and
    - b) the design and construction of the substrate including movement and control joints, and
    - c) applications where ancillary components other than those provided by Viking Roofspec listed in the Technical Literature are substituted with alternative products, and
    - d) integral roof gardens, steps within the deck and direct downpipe discharge to the deck level.

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### 7. Health and Safety Information

1. Standard industry safety practices and manufacturer safety requirements as detailed in the technical literature including the applicable SDS must be observed at all times.
2. Please refer to Viking Industry Safety Data Sheets (SDS) as detailed in Section 9 of this certificate.
3. Although, Viking Enviroclad Roof and Deck Membrane Systems have been shown to comply with AS/NZS 4020:2005, it must be noted that all water collected off roof surfaces made from any material is considered non-potable due to possible contamination from other sources. Water collection in this way can only be considered potable if it has been passed through a suitable sterilization system. Sterilization systems such as this have not been assessed and are outside the scope of this Certificate.
4. The first 25 mm of rainfall from a newly installed Viking Enviroclad Roof and Deck Membrane System roof must be discarded before water collection starts. This is to remove residues which may have developed in the processes involved in the production of a Viking Enviroclad Roof and Deck Membrane System membrane roof.

### 8. Basis for Certification

The certification decision is based on independent technical review(s) of test report(s), engineering opinion(s) and other documented evidence(s), factory audit(s) and site review(s)

Code Clause	Compliance pathway	Evidence
B1 STRUCTURE	Alternate solution	1, 2, 3, 4 & 5
B2 DURABILITY	Alternate solution	1, 2, 3, 4 & 5
E2 EXTERNAL MOISTURE	Alternate solution	1, 2, 3, 4 & 5
F2 HAZARDOUS BUILDING MATERIALS	Alternate solution	1, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16 & 17

### 9. Supporting Documentation for Certification

Rev	Author	Description	Date and/or Revision
001	Viking Roofspec	Enviroclad Brochure	VK_Edition-V7-2023
002	Viking Roofspec	Enviroclad Applicator Training Handbook	VK_Edition-V3-2023
003	Viking Roofspec	Viking_Roofspec_EnviroClad Details_201123	23 November 2020



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004	BRANZ	Viking Enviroclad Roofing and Deck Membrane - Appraisal No. 656 (2020)	28 March 2024
005 *	BRANZ	BRANZ Appraisals Means of Compliance - Basis of Appraisal - Viking Enviroclad Roofing and Deck Membrane Covered by BRANZ appraisal No 656 (2020)	14 May 2020
006	Carlisle Construction Materials	Safety Data Sheet – Flexible Fast Adhesive Part A	May 2023
007	Carlisle Construction Materials	Safety Data Sheet – Flexible Fast Adhesive Part B	May 2023
008	Viking Roofspec	Safety Data Sheet – Enviroclad Adhesive	May 2023
009	Viking Roofspec	Safety Data Sheet – Weathered Membrane Cleaner	May 2023
010	Viking Roofspec	Safety Data Sheet – Clear Cut-Edge Sealant	May 2023
011	Viking Roofspec	Safety Data Sheet – One-Part Pourable Sealer (White)	May 2023
012	Viking Roofspec	Safety Data Sheet – Water Cut-off Mastic	May 2023
013	Viking Roofspec	Safety Data Sheet – Flexible FAST Adhesive Dual Cartridge	May 2023
014	Viking Roofspec	Safety Data Sheet – Cav-Grip	March 2023
015	Viking Roofspec	Safety Data Sheet – Low VOC Untack Cleaner	March 2023
016	Viking Roofspec	Safety Data Sheet – Universal Single-ply sealant	July 2023
017	AWQC	Test Report – AS/NZS 4020:2018 Testing of products for use in contact with drinking water	7 March 2024

\* These documents were provided commercial in confidence and are not publicly available



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### 10. Supporting Information About Description (Optional)

The main membrane components are:

STP000	Enviroclad (Sure-weld bond adhesive – 19 litre pail)	STP100	Enviroclad TPO white 1.14mm x 3.0m x 30.4m
STP109	Enviroclad TPO grey 1.14mm x 5.0m x 30.4m	STP110	Enviroclad TPO grey 1.14mm x 3.0m x 30.4m
STP110A	Enviroclad APEEL TPO grey 1.14mm x 3.0m x 30.4m	STP113	Enviroclad TPO grey 1.14mm x 3.66m wide
STP204	Enviroclad F.B.S TPO grey 2.52mm x 3.6m x 30.4m	STP205	Enviroclad F.B.S TPO white 2.52mm x 3.6m x 30.4m
STP500	Enviroclad TPO white 1.52mm x 3.0m x 30.4m	STP509	Enviroclad TPO grey 1.52mm x 5.0m x 30.4m
STP510	Enviroclad TPO grey 1.52mm x 3.0m x 30.4m	STP510A	Enviroclad APEEL TPO grey 1.52mm x 3.0m x 30.4m
STP513	Enviroclad TPO grey 1.52mm x 3.66m wide	STP900B	Flexible FAST Adhesive Dual Cartridge (0.75 litre each part)
STP904	Cav Grip (solvent based adhesive – 13.6 kg aerosol)		

Viking Enviroclad Roofing and Deck Membrane System must be installed using Viking Roofspec ancillary components as described in the Viking Roofspec Applicator Handbook VK\_Edition-V3-2023 referenced as the Handbook.

### 11. Supporting Information About Intended Use (Optional)

Nil

### 12. Supporting Information About Conditions and Limitations of Use (Optional)

1. The following requirements of the BRANZ Appraisal and the Technical Literature “Viking\_Roofspec\_EnviroClad\_Details\_201123” for the design of the Viking Enviroclad Roof and Deck Membrane System, shall be considered:
  - a. the requirements of the BRANZ Appraisal and the Technical Literature “Viking\_Roofspec\_EnviroClad\_Details\_201123”, dated 23 November 2020, include but are not limited to drainage flanges, outlets, grates or cages, and overflow details. Penetrations and upstands of the membrane must be raised above the level of any possible flooding caused by blockage of roof drainage.
  - b. Separation or protection must be provided from heat sources such as fireplaces, heating appliances, flues and chimneys. Part 7 of NZBC Acceptable Solutions C/AS1 2<sup>nd</sup> edition (02 November 2022) - C/AS2 amendment 3 (02 November 2023) and NZBC Verification Method C/VM1 2<sup>nd</sup> edition (02 November 2022) provide methods for separation and protection of combustible materials from heat sources.
  - c. Viking Enviroclad Roofing and Deck Membrane System is impermeable, therefore a means of dissipating construction moisture must be provided in the building design and construction to meet code compliance with NZBC Clause E2.3.6.
  - d. Allowance for deflection and settlement of the substrate must be made in the design of the roof to ensure falls are maintained and no ponding of water can occur.
  - e. All falls must slope to an outlet and be built into the substrate. Fall must not be created with mortar screeds over the membrane.



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- f. Long term properties of the material may be affected by contact with bituminous materials or polystyrene insulation. Viking Roofspec should be contacted for advice in either of these situations.
  2. The following requirements of the BRANZ Appraisal and the Technical Literature “Viking\_Roofspec\_EnviroClad Details\_201123” for the installation of the Viking Enviroclad Roof and Deck Membrane System, shall be considered:
    - a. Dry storage must be provided for all products and the rolls of membrane must be lying down on pallets.
    - b. Substrates must be dry, clean and stable before installation commences. Surfaces must be smooth and free from nibs, sharp edges, dust, dirt or other materials such as oil, grease or concrete formwork release agents. All surface defects must be filled to achieve an even and uniform surface.
    - c. Concrete substrates can be checked for dryness by using a hygrometer, as set out in BRANZ Bulletin No. 585 Measuring moisture in timber and concrete -June 2015. The relative humidity of the concrete must be 75% or less before membrane application.
    - d. The moisture content of a timber substructure must be a maximum of 20% and plywood sheet must be dry at time of membrane application. This will generally require plywood sheets to be covered until just before the membrane is laid, to prevent rain wetting.
  3. The ongoing care and maintenance of the Viking Enviroclad Roof and Deck Membrane System shall comply with Viking Roofspec Membrane Care and Maintenance Guide V1.0.
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