

CERTIFICATE OF CONFORMITY

This product Certificate is issued under Section 269 of the Building Act 2004 for:

Viking Enviroclad Roofing and Deck Membranes System



Page 1 of 3



Product Description

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. Some Membranes are supplied with an APEEL™ protective film. The film which provides protection during construction is to be removed within 90 days of installation. The main membrane components are:

STP100 Enviroclad TPO white 1.14mm x 3.0m x 30.4m	STP500 Enviroclad TPO white 1.52mm x 3.0m 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
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
STP113 Enviroclad TPO grey 1.14mm x 3.66m wide	STP513 Enviroclad TPO grey 1.52mm x 3.66m wide
STP000 Enviroclad adhesive 19L	

Viking Enviroclad Roofing and Deck Membrane System must be installed using Viking Roofspec ancillary components as described in the Viking Roofspec Applicator Handbook V1.3 (30/05/2016) referenced as the Handbook.

Product purpose and use

1- Viking Enviroclad Roofing and Deck Membrane System 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.

2- Viking Enviroclad Roofing and Deck Membrane System has also been assessed for use as a roof and deck waterproofing membrane on specifically designed or existing buildings within the following scope:

- subject to specific structural and weathertightness design situated in wind pressures up to a maximum design differential ultimate limit state (ULS) of 6.5 kPa; 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.

Certificate holder

Viking Roofspec, A Division of Viking Group Ltd, 80 Alexander Crescent, Otara, Manukau City 2023, New Zealand
 Free phone: 0800 729 799, Free fax: 0800 729 788, Email: info@vikingroofspec.co.nz
 Web: www.vikingroofspec.co.nz

CodeMark Certification Body		28/03/2018	06/08/2018	28/03/2021	GM-CM30058-RevD
Global-Mark Pty Ltd, Suite 4.07, 32 Delhi Road, North Ryde NSW 2113, Australia Tel: +61 (0)2 9886 0222	Herve Michoux Managing Director	Date of issue	Last update	Date of next re-certification	Certificate Number

The purpose of construction site audits is to confirm the practicability of installing the product; and to confirm the appropriateness and accuracy of installation instructions. In issuing this certificate, Global-Mark has relied on the independent expert and/or laboratory advise or reports. This certificate is issued by Global-Mark Pty Limited, an independent certification body accredited by the product certification accreditation body (JAS-ANZ) appointed by the Chief Executive of the Ministry of Business Innovation and Employment under the Building Act 2004. The Ministry of Business Innovation and Employment does not in any way warrant, guarantee, or represent that the building method or product the subject of this certificate conforms with the New Zealand Building Code, nor accept any liability arising out of the use of the building method or product. The Ministry of Business Innovation and Employment disclaims, to the extent permitted by law, all liability (including negligence) for claims of losses, expenses, damages, and costs arising as a result of the use of the building method(s) or product(s) referred to in this certificate. This Certificate may only be reproduced in its entirety. It is advised to check that this Certificate of Conformity is currently valid and not withdrawn, suspended or superseded by a later issue by referring to the Ministry of Business Innovation and Employment website, <http://www.mbie.govt.nz/> New Zealand Building Code (NZBC) references the Building Code in force at the time of issuing the product certificate. Certificate holder will notify Global-Mark Pty Ltd in accordance with Regulation 15 of the Building (Product Certification) Regulations 2008

CERTIFICATE OF CONFORMITY

This product Certificate is issued under Section 269 of the Building Act 2004 for:

Viking Enviroclad Roofing and Deck Membranes System



Page 2 of 3



Compliance with the New Zealand Building Code (NZBC):

Viking Enviroclad Roofing and Deck Membrane System if designed, used, installed and maintained in accordance with the scope of this Certificate, will meet the following provisions of the NZBC:

Clause B1 STRUCTURE: Performance B1.3.1, B1.3.2 and B1.3.4 (b) (c) (d) (e) for the relevant physical conditions of B1.3.3 (a), (c), (h), & (p) Viking Enviroclad Roofing and Deck Membrane System meets these requirements.

Clause B2 DURABILITY: Performance B2.3.1 (b) and B2.3.2 (a), 15 years. Viking Enviroclad Roofing and Deck Membrane System meets these requirements.

Clause E2 EXTERNAL MOISTURE: Performance E2.3.1, E2.3.2 and E2.3.7 (b) and (c). Viking Enviroclad Roofing and Deck Membrane System meets these requirements.

Clause F2 HAZARDOUS BUILDING MATERIALS: Performance F2.3.1. Viking Enviroclad Roofing and Deck Membrane System meets this requirement and will not present a health hazard to people.

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

Subject to the following conditions and limitations:

1. Maintaining the validity of and compliance with the BRANZ Appraisal No. 656 (2015) Amended 14 November 2017 Viking Enviroclad Roofing and Deck Membrane referenced as the BRANZ Appraisal including inspection and maintenance requirements
2. Comply with Viking Roofspec Membrane Care and Maintenance Guide V1.0
3. The Viking Enviroclad Roofing and Deck Membrane System can only be used with the ancillary components provided by Viking Roofspec listed in the Handbook. Where these components are substituted with alternative products, these applications fall outside the scope of this Certification.
4. For existing buildings, the suitability of the roof or deck needs to be confirmed by a professional meeting the design conditions 1 of this certificate.

Design Conditions:

1. Product specification and incorporation of the Viking Enviroclad Roofing and Deck Membrane System 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.
2. The design must be in compliance with the requirements of the BRANZ Appraisal and the Technical Literature Enviroclad Set series 1.10 dated 29/04/2015 Detail EC01 to EC24, which includes but 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.
3. The design of details not covered by the Technical Literature is subject to specific weathertightness design. Weathertightness details that are developed by the designer are outside of the scope of this Certificate.
4. The design and construction of the substrate and movement and control joints is specific to each building, and therefore is the responsibility of the building designer and building contractor and is outside the scope of this Certificate. 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.
5. Viking Enviroclad Roofing and Deck Membrane System installed using any of the three installation methods is suitable for use in areas subject to a maximum design differential Ultimate Limit State wind pressure of 2.7 kPa, subject to the limitations of the substrate.
6. Minimum fall requirements are 1 in 30 (2 degrees) for roofs; 1 in 40 (1.5 degrees) for decks and 1 in 100 (0.5 degrees) for gutters. *Note: Where possible BRANZ recommends a minimum 1:60 (1 degree) slope for gutters.*
7. All falls must slope to an outlet and be built into the substrate. Fall can not be created with mortar screeds over the membrane.
8. Separation or protection must be provided to Viking Enviroclad Roofing and Deck Membrane System from heat sources such as fire places, heating appliances, flues and chimneys. Part 7 of NZBC Acceptable Solutions C/AS1 - C/AS6 and NZBC Verification Method C/VM1 provide methods for separation and protection of combustible materials from heat sources.
9. 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.
10. Integral roof gardens, steps within the deck and direct downpipe discharge to the decks level are outside the scope of this Certificate.
11. The membrane must be continually protected from physical damage for trafficable area by pedestal protection system for deck or the use of Enviroclad walkway for roof.
12. Though 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 to be non-potable due to possible

CERTIFICATE OF CONFORMITY

This product Certificate is issued under Section 269 of the Building Act 2004 for:

Viking Enviroclad Roofing and Deck Membranes System



Page 3 of 3



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.

13. Viking Enviroclad Roof and Deck Membrane Systems installed using the standard method of fully bonded with heat welded seams is suitable for use in areas subject to a maximum design differential Ultimate Limit State wind pressure of 6.5kPa, subject to the limitations of the substrate. Viking Enviroclad Roof and Deck Membrane Systems installed using either of the mechanical fastenings methods, HP-X Fasteners and Piranha Plates or Rhino Bond System is suitable for use in areas subject to maximum design differential Ultimate Limit State wind pressure of 2.7 kPa, subject to the limitations of the substrate.

Product Installation Conditions:

1. Installation shall be carried out by a Viking Roofspec trained and licensed installer.
2. Installation shall be undertaken in accordance with all relevant technical information related to the selected installation method, including information contained within the BRANZ Appraisal and the Handbook.
3. Installer must complete the Substrate Checklist: concrete (September 2013) or Substrate Checklist; Plywood (March 2015).
4. 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.
5. Dry storage must be provided for all products and the rolls of membrane must be lying down on pallets.
6. 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.
7. Concrete substrates can be checked for dryness by using a hygrometer, as set out in BRANZ Bulletin No. 515. The relative humidity of the concrete must be 75% or less before membrane application.
8. 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.
9. 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.

End of the record