

Certificate no: CMNZ30092

Version: C

Original issue date: 08/04/2018

Version date: 19/06/2024

Renewal Date: 19/06/2027

1. Certificate Holder Details



Viking Roofspec, A Division of Viking Group Ltd
Trading as Viking Roofspec,
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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

Global-Mark Managing Director.



Herve Michoux

Product Certificate

Viking GM Torch On Membrane System

3. Description of Building Method or Product

Viking GM Torch-On Membrane Systems are a range of torch-applied reinforced modified-bitumen membranes for use as fully bonded double-layer torch-on waterproofing membranes on nominally flat and pitched roofs.

There are four Viking GM Torch-On Membrane Systems; Phoenix Super APAO, Lybra SBS, Gemini APP and Halley-P (No-Flame).

4. Intended use of Building Method or Product

Viking GM Torch-On Membrane Systems are roof waterproofing membrane systems.

5. New Zealand Building Code Provisions

Viking GM torch On Membrane Systems 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

6. Conditions and Limitations of Use

1. Viking GM Torch-On Membrane Systems are certified for use as a roof 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, and
 - 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, concrete or Strandsarking® (roof only), and
 - v. with a minimum fall in accordance with the finish fall requirement of the Code of Practice for Reinforced Modified Bitumen Membraned (RMBM) Systems for Roofs and Decks, 4th Edition, March 2021.



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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, concrete or Strandsarking® (roof only), and
 - iii. with a minimum fall in accordance with the finish fall requirement of the Code of Practice for Reinforced Modified Bitumen Membraned (RMBM) Systems for Roofs and Decks, 4th Edition, March 2021.
 - c) where the membrane is on a trafficable area of a roof it must be continually protected from physical damage by pedestal protection system or other approved means.
2. Subject to the structural limitations of the substrate, Viking GM Torch-On Membrane Systems are certified for use up to a maximum design differential Ultimate Limit State wind pressure of 6 kPa.
 3. Viking GM Torch-On Membrane Systems shall be:
 - a) designed and installed in accordance with the requirements of BRANZ Appraisal No. 948 (2022) – Viking GM Torch On Membranes (Amended 15 December 2022) and the Technical Literature “Viking_Roofspec_Torch-On Details_201123”, 23 November 2020, and
 - b) Installed by a Viking Roofspec trained and licensed installer.
 4. For existing buildings, the suitability of the substrate shall be confirmed by a professional qualified to design buildings within the scope specified in Condition #1.
 5. Product specification and incorporation of the Viking GM Torch-On Membrane Systems into the building design shall be carried out by a competent building professional, qualified to design buildings within the scope specified in Condition #1.
 6. 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 roof surface and direct downpipe discharge to the roof level.

7. Health and Safety Information

1. Standard industry safety practices and manufacturer safety requirement as detailed in the technical literature including the Code of Practice for Reinforced Modified Bitumen Membraned (RMBM) Systems for Roofs and Decks, 4th Edition, March 2021 must be observed at all times. In particular, the application of Viking GM Torch on Membrane System requires the use of a torch with naked flames which introduces several hazards.
2. Please refer to Viking Industry Product Technical Datasheets and Safety Data Sheets (SDS) as detailed in Section 9 of this certificate.



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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, 6 & 16
B2 DURABILITY	Alternate solution	1, 2, 3, 4, 5 & 6
E2 EXTERNAL MOISTURE	Acceptable solution E2/AS1 Third Edition including amendment 10 (5/11/2020)	1, 2, 3, 4, 5, 6 & 16
F2 HAZARDOUS BUILDING MATERIALS	Alternate solution	1, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14 & 15

9. Supporting Documentation for Certification

Rev	Author	Description	Date and/or Revision
001	Viking Roofspec	Viking Torch-On Membrane Brochure	VK_Edition-V4-2022
002	Viking Roofspec	Viking Torch-On Membrane Applicator Training Handbook	VK_Edition-V4-2023
003	Viking Roofspec	Viking_Roofspec_Torch-on Details_201123	23 November 2020
004	Viking Roofspec	Membrane Care & Maintenance Guide -Torch-On Membrane	Version 1.0
005	BRANZ	BRANZ Appraisal No. 948 (2022) – Viking GM Torch On Membranes	15 December 2022
006 *	BRANZ	BRANZ Means of Compliance – Basis of Appraisal – Viking GM Torch On Membranes – BRANZ Appraisal No 948 (2022)	3 March 2022
007	Viking Roofspec	Safety Data Sheet – Easy Paste	May 2023
008	General Membrane SpA	Product Data Sheet – Orion Ponti 5mm	June 2012
009	General Membrane SpA	Product Data Sheet – General Fix EVO	23 March 2015



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010	Viking Roofspec	Safety Data Sheet – Tanking Mastic (P&S)	May 2023
011	Viking Roofspec	Safety Data Sheet – Elastigum	May 2023
012	Viking Roofspec	Safety Data Sheet – Torch-on Primer Solvent Based	May 2023
013	Viking Roofspec	Safety Data Sheet - Torch-on Primer Water Based	May 2023
014	Viking Roofspec	Safety Data Sheet – Vapour Barrier Primer	May 2023
015	Viking Roofspec	Safety Data Sheet – Pitched Roofing Sealant	May 2023
016	Waterproofing Membrane Association of New Zealand	Code of Practice for Reinforced Modified Bitumen Membrane (RMBM) systems for roofs and decks	4 th Edition, March 2021

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

10. Supporting Information About Description (Optional)

The Viking Torch-on Membrane systems use the following products:

	Base sheet	Cap Sheet Grey	Cap Sheet Black
Phoenix Super APAO	SEM331 (3mm) / SEM127 (4mm)	SEM148	SEM145
Lybra SBS	SEM227	SEM248	SEM245
Gemini APP	SEM327	SEM348	SEM345
Halley P No-flame	SEM712	SEM711	SEM710
Self-adhesive Base Sheet	SEM330	-	-
Isolink Vented Base Sheet	SEM701	-	-

For Phoenix Super APAO, Lybra SBS & Gemini APP systems, the base sheets are 3mm thick (plus 4mm option for Phoenix Super APAO) modified non-woven polyester/fibreglass composite reinforced, torch on bitumen membranes. The cap sheets are 4mm thick modified, non-woven polyester/fibreglass composite reinforced, torch on bitumen membranes finished in various ceramic chip colours.

For Halley P systems, the base sheet is a 3mm thick SBS modified, non-woven polyester fibreglass composite reinforced self-adhesive bitumen membrane. The cap sheet is a 4mm thick SBS modified, non-woven polyester fibreglass composite reinforced self-adhesive bitumen membrane finished in various ceramic chip colours.

All sheets are delivered in 1m x 10m rolls (except Halley P Cap sheets in 1m x 8m rolls).

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Ancillary components supplied by Viking Roofspec include:

Orion Ponti Carpark Membrane SEM027 (1m x 10m)	Bitumen Sealant SES013
Torch on primer solvent based SES297 & SES299	Torch on primer water base SES300
Easy Paste SES302 & SES303	Reinforcing Polyester Tape VSC300 (100mm x 91m)
Multi-purpose Drain/Overflow SDM049, SDM051, SDM055, SDM065	Roof vents IMV111, IMV112
Deck Drain SDM050, SDM050B, SDM056	Scuppers IMT107, IMT108, IMT109
EVO Solar Mounts SEM403 (A, B, C, D)	Leaf/gravel grates IMT301, IMT302, IMT303, IMT304
Sump IMR100, IMR120 & IMR130	Elastigum SES015
Nicholsons RoofTrak with Torch on Flange APAO NRT002	S/S Kick out Diverters IMT604, IMT605
WMAI Drip Edge IMT702	Bitumen Fillets 1.2m IMT603
Architectural Finishing Series IMT700, IMT701, IMT702, IMT703, IMT704, IMT705, IMT706, IMT707	
Pressure Bar and Termination Flashings SDF110C, IMT708, IMT709, IMT710, IMT711	

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, the Code of Practice for Reinforced Modified Bitumen Membraned (RMBM) Systems for Roofs and Decks, 4th Edition, March 2021 and the Technical Literature "Viking_Roofspec_Torch-On Details_201123" for the design of the Viking GM Torch-On Membrane Systems, shall be considered:
 - a. the requirements of the BRANZ Appraisal, the Code of Practice for Reinforced Modified Bitumen Membraned (RMBM) Systems for Roofs and Decks, 4th Edition, March 2021 and the Technical Literature "Viking_Roofspec_Torch-On Details_201123", 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 2nd edition (02 November 2022) – C/AS2 amendment 3 (02 November 2023) and NZBC Verification Method C/VM1 2nd edition (02 November 2022) provide methods for separation and protection of combustible materials from heat sources.
 - c. Viking GM Torch-On Membrane Systems are 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.

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- e. All falls must slope to an outlet and be built into the substrate. Fall cannot be created with mortar screeds over the membrane.
 - 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_Torch-On Details_201123" for the installation of the Viking GM Torch-On Membrane Systems, 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 GM Torch-On Membrane Systems shall comply with Viking Roofspec Membrane Care and Maintenance Guide V1.0.

All CodeMark certificates that are current must be registered with MBIE. MBIE maintains a register of valid product certificates. [Please find the register here.](#)

If the certificate is not listed on this register or it appears as (SUSPENDED), it is not a valid CodeMark certificate and does not have to be accepted by a building consent authority as establishing compliance with the New Zealand Building Code.



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