



PRODUCT CERTIFICATE

Viking GM Torch On Membrane Systems



KEY INFORMATION

CERTIFICATE: **GM-CM30092 RevB**

1	SUMMARY OF 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 three Viking GM Torch-On Membrane Systems; Lybra SBS, Gemini APP and Phoenix Super APAO	
2	SUMMARY OF INTENDED USE OF BUILDING METHOD OR PRODUCT
Viking GM Torch-On Membrane Systems have been assessed as a roof waterproofing membrane system.	
3	BUILDING CODE PROVISIONS
Viking GM torch On Membranes Systems 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 for the relevant physical conditions of B1.3.3 (a), (b) & (h). Viking GM torch On Membranes Systems meet these requirements.	
Clause B2 DURABILITY: Performance B2.3.1 (b), 15 years. Viking GM torch On Membranes Systems meet this requirement.	
Clause E2 EXTERNAL MOISTURE: Performance E2.3.1, E2.3.2 and E2.3.7 (a), (b) and (c). Viking GM torch On Membranes Systems meet these requirements.	
Clause F2 HAZARDOUS BUILDING MATERIALS: Performance F2.3.1. Viking GM torch On Membranes Systems meet this requirement and will not present a health hazard to people.	

4	CERTIFICATE HOLDER DETAILS
Viking Roofspect, A Division of Viking Group Ltd 80 Alexander Crescent, Otara, Manukau City 2023 info@vikingroofspect.co.nz 0800 729 799 www.vikingroofspect.co.nz	

ISSUED	LAST UPDATE	EXPIRY
08/04/20218	22/02/2021	08/04/2024
5 SIGNATURE		
 Herve Michoux, Global Mark Managing Director		

6	PRODUCT CERTIFICATION BODY
Global-Mark Pty Ltd 57 Willis Street Wellington, 6011 customer.service@global-mark.co.nz +64 9 889 0622 www.global-mark.co.nz	
The complaints process for this certificate can be found here:	
https://www.global-mark.com.au/?s=complaint	



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CERTIFICATE V1.4

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7 CONDITIONS AND LIMITATIONS OF USE

1. Viking GM Torch-On Membrane Systems are certified for use as a roof waterproofing membrane:
 - a. on buildings:
 - 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,
 - 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,
 - situated in NZS 3604:2011 Wind Zones, up to, and including Extra High, and
 - with substrates of plywood or suspended concrete slab, and
 - b. on specifically designed or existing buildings:
 - 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,
 - c. with substrates of plywood or suspended concrete slab, and
 - with a minimum fall of 1 in 30 (2 degrees) for roofs and 1 in 100 (0.5 degrees) for gutters, and
 - d. 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 6.5kPa
3. Viking GM Torch-On Membrane Systems shall be:
 - a. designed and installed in accordance with the requirements of the BRANZ Appraisal 948 (2017), amended 18 Sept 2019 and the Technical Literature “Viking_Roofspec_Torch-On_Details_201123”, dated 23 November 2020, and
 - b. Installed by a Viking Roofspec trained and licensed installer.
4. For existing buildings, the suitability of the roof 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

8 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 Torch-on Membrane Systems for Roofs ,1st Edition, October 2008 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 Safety Data Sheets (SDS) as detailed in Section 13 of this certificate.

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9 SUPPORTING INFORMATION ABOUT DESCRIPTION			
The three systems use the following products:	Base sheet	Cap Sheet Grey	Cap Sheet Black
Lybra SBS	SEM227	SEM248	SEM245
Gemini APP	SEM327	SEM348	SEM345
Phoenix Super APAO	SEM127	SEM148	SEM145
<p>The base sheet is a 3mm thick APP/3mm thick SBS/4mm thick APAO modified non-woven polyester/fibreglass composite reinforced, torch on bitumen membrane. The cap sheet is a 4mm thick APP/4mm thick SBS/4mm thick APAO modified, non-woven polyester/fibreglass composite reinforced, torch on bitumen membrane finished in various ceramic chip colours. All sheets are delivered in 1m x 10m rolls.</p> <p>The ancillary components supplied by Viking Roofspec are as follows</p>			
Torch on primer solvent based SES299		Torch on primer water based SES300	
Dropper outlets IMT400 & IMT401		Roof vents IMV111, IMV112	
Roof Outlets Sure fix drain/grate IMT500, IMT 501 & IMT502		Scuppers IMT100, IMT101, IMT102, IMT104	
Overflow IMT105		Leaf/gravel grates IMT301, IMT302, IMT303, IMT304	
Drain SDM049		Elastigum SES015	
Pegasus Spot vent sheet SEM400		Sump IMR100, IMR120 and IMR130	
10 SUPPORTING INFORMATION ABOUT INTENDED USE			
Nil			
11 SUPPORTING INFORMATION ABOUT CONDITIONS AND LIMITATIONS OF USE			
<p>1. The following requirements of the BRANZ Appraisal, the Code of PRACTICE for Torch-on Membrane Systems for Roofs ,1st Edition, October 2008 and the Technical Literature “Viking_Roofspec_Torch-On Details_201123” for the design of the Viking GM Torch-On Membrane Systems, shall be considered:</p> <ol style="list-style-type: none"> the requirements of the BRANZ Appraisal, the Code of PRACTICE for Torch-on Membrane Systems for Roofs ,1st Edition, October 2008 and the Technical Literature “Viking_Roofspec_Torch-On 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. 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 amendment 5 (05 November 2020) - C/AS2 amendment 2 (05 November 2020)) and NZBC Verification Method C/VM1 amendment 5 (05 November 2020) provide methods for separation and protection of combustible materials from heat sources. 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. 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. All falls must slope to an outlet and be built into the substrate. Fall cannot be created with mortar screeds over the membrane. 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. 			

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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. 515. 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

12 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
Clause B1 STRUCTURE	Alternate solution	1, 2, 3, 4, 5, 6, 7, 8 and 9
Clause B2 DURABILITY	Alternate solution	1, 2, 3, 4 and 5
Clause E2 EXTERNAL MOISTURE	Acceptable solution E2/AS1 Third Edition including amendment 10 (5/11/2020)	1, 2, 3, 4 and 5
Clause F2 HAZARDOUS BUILDING MATERIALS	Alternate solution	1, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13 and 14

13 SUPPORTING DOCUMENTATION FOR CERTIFICATION

Ref	Author	Title	Date and/or revision
1	Viking Roofspec	Viking Torch-On Membranes Brochure	V2.0 2019
2	Viking Roofspec	Viking Torch-On Membranes Applicator Training Handbook	VK_Edition-V1-2019
3	Viking Roofspec	Viking_Roofspec_Torch-on Details_201123	23 November 2020
4	BRANZ	Viking GM Torch On Membranes - Appraisal No. 948 (2017) amended 18/09/2019	18 September 2019
5 *	BRANZ	BRANZ Appraisals Means of Compliance - Basis of Appraisal - Viking GM Torch On Membranes Covered by BRANZ Appraisal No 948 (2017)	5 February 2018)
6	Viking Roofspec	Product Data Sheet – Easy Paste	12 Aug 2019
7	General Membrane SpA	Product Data Sheet – General Garden FLL 4mm	May 2006
8	General Membrane SpA	Product Data Sheet – Orion Ponti 5mm	Jun 2012
9	General Membrane SpA	Product Data Sheet – General Fix EVO	23 Mar 2015
10	Viking Roofspec	Safety Data Sheet – Tanking Mastic (P&S)	Aug 2018
11	Viking Roofspec	Safety Data Sheet – Elastigum	Aug 2018
12	Viking Roofspec	Safety Data Sheet – Torch-on Primer Solvent Based	Jul 2018
13	Viking Roofspec	Safety Data Sheet - Torch-on Primer Water Based	Jul 2018

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14	Viking Roofspec	Safety Data Sheet – Vapour Barrier Primer	Jul 2018
* This document was provided commercial in confidence and is not publicly available.			

14	CONDITIONS RELATING TO NOTIFICATION		
a)	the certificate holder notifies the product certification body in writing of any intended change to any of the following particulars:		
i.	the name, address, or contact details of the certificate holder:		
ii.	any address of a location where a certified product is produced or manufactured:		
b)	the certificate holder notifies the product certification body in writing of any intended change, modification, or alteration to any of the following:		
i.	the certified building method or product:		
ii.	the method of its production or manufacture:		
iii.	the product quality plan prepared in respect of the certified building method or product:		
iv.	the application or installation instructions for the certified building method or product:		
v.	any documentation relating to the use and maintenance of the certified building method or product:		
c)	if the certificate holder has any reason to suspect that the certified building method or product does not comply with the Building Code, the certificate holder notifies the product certification body in writing of the reason for that suspicion:		
d)	if the certificate holder or the product certification body finds that a certified building method or product that has been released on the market does not comply with the Building Code, the certificate holder discloses that fact in disclosure statements published in a form that is acceptable to the product certification body and to the chief executive:		
e)	if the certificate is suspended or revoked, the certificate holder—		
i.	notifies all customers to whom the building method or product is regularly supplied; and		
ii.	immediately ceases using the certificate, the mark of conformity, and any reference to the number of the certificate.		
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