

Viking Roofs spec Viking GM Torch-on Membrane Systems – Gemini APP, Lybra



Two-layer torch-on waterproofing membrane system for roofing and decking applications.

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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 Roofs spec confirms that this minimum level of assurance has been met or exceeded by the following:
CodeMark

BRANZ Appraisal
[948 \(2017\)](#)

Technical Statement

Product Description

This modified bitumen membrane system is designed for above and below-ground waterproofing applications. Its double-layer system is torched on; the heat of which maximises the seal to the most intricate and vulnerable areas for leaks such as roof penetrations, internal corners and gutter junctions.

Suitable for low slope/flat roofs, gutters, parapets and between concrete slabs and under floors. Suitable for inland use or coastal conditions.

- The 3mm "base" sheet (an APP asphalt based membrane) followed by a 4mm mineral-chip "cap" sheet available in black and grey, make up the double-layer system (torch-applied).
- UV and Ozone depletion resistant.
- Rot and puncture resistant.
- Rubberised system for extreme climates (won't crack in cold, flexible up to -15C).
- BRANZ appraised No. 567.
- 20 year product warranty and eligible for Viking's comprehensive Full System Warranty.
- Manufactured by one of Europe's leading modified bitumen membrane manufacturers.

Masterspec reference- 4423SB

Scope of use

These torch-on membranes are suited to tricky/confined roofs seeing they can be "formed" in to tight corners and awkward areas susceptible to leaks. They are suitable for low-slope roofs (flat or curved), gutters and parapets, waterproofing beneath a floating deck, inland and coastal conditions, commercial buildings and homes.

Viking Gemini APP, Lybra SBS and Phoenix Super APAO Waterproofing Membranes have been assessed as roof waterproofing membranes on buildings within the following scope:

- The scope limitations of NZS 3604:2011 and NZBC Acceptable Solution E2/AS1, Paragraph 1.1; or, Complies with E2 as an Alternative Solution
- 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; and,
- With a minimum fall for roofs of 1:30 (2 degrees).

Viking Gemini APP, Lybra SBS and Phoenix Super APAO Waterproofing Membranes have also been assessed for use as roof waterproofing membranes on buildings within the following scope:

- Subject to specific structural and weather tightness design situated in wind pressures up to a maximum design differential ultimate limit state (ULS) of 6 kPa; and,
- With substrates of plywood or suspended concrete slab.

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



masterspec partner

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- **Clause B2 Durability:** Performance B2.3.1, B2.3.1(b)
- **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

Notes

Please refer to Viking GM Mercury FC PTS for below-ground waterproofing and Viking GM General Garden FLL Antirrootfor roof gardens.

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 BRANZ certificate attached 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
[948 \(2017\)](#)

Use in Service History

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Product Criteria

Design requirements

Product specification and incorporation of the Viking Gemini APP, Lybra SBS and Phoenix Super APAO Waterproofing membranes 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, and; has ready access to the technical specifications including installation details and standards. Viking Gemini APP, Lybra SBS and Phoenix Super APAO systems comes with a range of accessories including sumps, scuppers and overflows, diverters, droppers and Architectural Finishing Series of flashing and termination bars.

Installation requirements

Installation shall be carried out by a Viking Roofspec trained and licensed installer. Installation shall be undertaken in accordance with all relevant technical information related to the selected installation method, including information contained within the, the Code of PRACTICE for Torch-on Membrane Systems for Roofs, 1st Edition, October 2008. Long term properties of the material may be affected by contact with petroleum-based products such as oils, greases and solvents.

Maintenance requirements

The membrane roof system must be regularly (at least annually) checked for damage, rubbish, debris and following contractor Damages, such as small punctures and tears must be repaired as recommended by Viking Roofspec. Special care must be taken when inspecting the membrane roof systems to ensure the continuing prevention of moisture ingress, and repairs must be undertaken where required. Drainage outlets must be maintained to operate effectively.

Warrantees

The Viking Gemini APP & Lybra SBS system are backed by a 20 year product warranty. Viking Phoenix Super APAO System is backed by a 25 year warranty. For specific projects, all three system types can be eligible to be covered by Viking's Full System Warranty. This warranty covers the product and installation in one document, for a 20 year period. Special conditions apply.

Company Product Information

Environmental

Bitumen is a bi-product of the oil refining process. Torch-on membranes provide a constructive use of this waste product. The robust nature of a modified bitumen membrane system will ensure sustainability through longevity. A Viking General Membrane Torch-on roof can be overlaid at the end of its useful life, avoiding the dumping of the old roof and the filling of landfills with inorganic waste.

Quality Assurance



ISO 9001 (Quality Management)

Relationships

Viking Roofs spec Viking GM Torch-on Membrane Systems – Gemini APP, Lybra



Member of New Zealand Green Building Council

Videos

['The Peak' Queenstown Hill - Drone Footage](#)



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