

# Viking Torch-On Membranes

Version: TO-PDS-V1.0

## Introduction:

This Data Sheet is to serve as a reference guide for Viking Roofspec Licensed Installers who are already familiar with Viking Roofspec systems. and are responsible for Viking roof-system installations. The following guide contains precautions, best uses and application procedures for the correct installation of Viking Bitumen Torch-On membranes APP, SBS, APAO

Viking Torch-On can be used for both commercial and residential buildings. It can be applied over suitably prepared existing surfaces as a re-roof solution or on new Substrates. It is also suitable for low-slope, pitched roofs, internal gutters, parapets, balconies / decks, and roof gardens. Viking Roofspec advise that all Reinforced Modified Bitumen Membranes incorporate a trafficable floating deck surface on pedestals such as Buzon.

Viking Torch-On are torch applied or self-adhered two-layer bituminous waterproofing membrane systems. The two-layers consist of a 3mm thick Base-sheet which is torch-applied or self-adhered to a primed substrate and a 4mm thick Black or Grey coloured ceramic-chip Cap-sheet. The Cap-sheet protects the roof system from ozone and UV degradation. A non-woven polyester / fibre-glass composite reinforced mesh within both sheet layers provides latitudinal tensile strength and high puncture resistance.

## Properties

Cap Sheets			
Properties	Lybra (SBS)	Gemini (APP)	Phoenix Super (APAO)
Roll Size (Width x Length)	1 m x 10 m	1 m x 10 m	1 m x 10 m
Thickness	4mm	4mm	4mm
Weight	45 Kg	45 Kg	55 Kg
Colour	Black/Grey	Black/Grey	Black/Grey
Serviceable temperature range	+100°C to -15°C	+120°C to -10°C	+140°C to -35°C.

Base Sheets			
Properties	Phoenix Galaxy (APAO)	Self-Adhered	Vented Base Sheet
Roll size (Width x Length)	1 m x 10m	1 m x 10m	1.05m x 7.5 m
Thickness	3mm	3mm	3mm
Weight	35kg	35kg	25kg
Cold Flexibility	-35°C	-25°C	-10°C

**\*All Cap sheets are compatible with base sheets**

**Approved Substrates:**

- Plywood (see installation guide to meet minimum requirements)
- Concrete (see installation guide to meet minimum requirements)
- Strand Sarking (see installation guide to meet minimum requirements)
- Polyiso and Warm Roofs (see installation guide to meet minimum requirements)
- Cross Laminated Timber (CLT)

**Installation:**

## Pre installation

- All surfaces must be checked to ensure they are dry, clean, smooth, and free from sharp edges, loose or foreign materials, that may affect the adhesion of the membrane or may damage the membrane. *Refer to Substrate installation guides for different surfaces.*
- When setting out the roof, consider your layout to incorporate aesthetic and economical aspects. Lay membrane from low points, drainage outlets and gutters, up the roof /deck slopes. Viking Torch-on is usually installed running down the slope to minimize water retention behind laps on the roof.
- Minimize the laps within the gutter, by running membrane down the length of the gutter – not across it.
- Use chalk lines or straight edges to insure straight neat lines of the finished membrane.
- Install Bitumen Fillet if timber or mortar fillets have not already been installed.

## Base Sheet

- Apply Viking Solvent or Water based primer to substrate.
- Install drainage outlets into gutters before laying the main roof. Outlets must be rebated into the substrate to avoid ponding. All gutters /roofs should have overflows or fall to external gutters.
- Whilst unrolling the membrane roll use a correct size gas torch to heat the membrane until a bitumen bleed is established (Not required for Self-Adhered base sheets).
- Overlap previous rolls sides with a minimum of 75mm and end laps 150mm ensuring all laps face downhill.
- Weld all lap joints carefully ensuring all joints/ laps are tested progressively.
- Stagger the roll to avoid four corners meeting in one place and creating excessive build up.

## Cap Sheet

- Before proceeding, ensure the first layer has been completed and tested
- If there has been an extended period between installing the base layer and the cap sheet, then ensure the base layer is clean and dry.
- The laps of the cap sheet must offset the laps of the base sheet by half or 500mm.
- Torch down the Cap sheets so that they are fully bonded to the base sheet.
- After each two or three rolls are laid. Weld all lap joints ensuring a bead of bitumen bleed is visible to seal the lap sheets ends, testing all joints progressively.

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### Precautions

- Store modified bitumen sheets in a cool, dry, and well-ventilated area, away from direct sunlight and heat sources. Store at minimum +5°C
- Avoid stacking rolls excessively to prevent deformation or damage to the sheets.
- Inspect the substrate for any irregularities, moisture, or debris before installation.
- Ensure the substrate is clean, dry, and free from any loose materials, oil, grease, or other contaminants that may hinder proper adhesion.
- Wear appropriate personal protective equipment (PPE), such as gloves and safety goggles, when handling and installing modified bitumen sheets.
- Work in well-ventilated areas or use respiratory protection when working with bitumen products to avoid inhalation of fumes.
- Ensure that the modified bitumen sheets are compatible with the specific substrate and any adhesives or primers used during installation.
- Avoid direct contact between modified bitumen sheets and incompatible materials that may lead to chemical reactions or degradation of the sheets.
- Protect the installed modified bitumen sheets from foot traffic, sharp objects, and construction debris that may puncture or damage the waterproofing layer.
- Consider installing a protective layer, such as insulation or a protection board, above the modified bitumen sheets to safeguard them during subsequent construction phases.
- Regularly inspect the modified bitumen sheets for signs of damage, deterioration, or wear over time.
- Perform necessary maintenance and repairs promptly to extend the service life of the waterproofing system.

### Storage:

Handling and storage of all materials whether on or off site is under the control of the Viking Roofspect Licensed and Trained Installers. Dry storage must be provided for all products and the rolls of membrane must be standing upright on the salvageable edge, do not let rolls get crushed under weight of stacking pallets on top of each other.

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