

# Mapei Evolight S Roofing & Decking Membrane

Product Technical Statement: 109341



Evolight S Torch-on Membrane is a SBS modified , polyester reinforced bitumen for roofs and balcony

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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



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

BRANZ Appraisal

[1043](#)

## Technical Statement

### Product Description

- Created with distilled bitumen-based compound
- Ultra-light REOXTHENE technology, with Evalith™ XTR polyester spunbond from Johns Manville
- Stabilized and reinforced with longitudinal glass fiber threads
- The special type of compound, which surpasses previous weight/thickness parameters (density compound ≤0,96 gr/cm3 Test method ISO 1183), and the improved mechanical characteristics of the fabric (excellent elongation, remarkable tensile strength) makes these membranes suitable for the heaviest use.

### Scope of use

Evolight S Torchon membrane has been BRANZ appraised as a roof and deck waterproofing membrane on buildings within the following scope:

- the scope limitations of NZBC Acceptable solutions E2/AS1 , Paragraph1.1:or
- the scope of 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,
- with substrates of plywood or suspended concrete slab:and,
- with minimum falls for roofs of 1:30 and decks of 1:40 , and
- with deck size limited to 40m2: , and
- situated in NZS 3604 Wind Zones , up to and including Extra high

Roofs and decks waterproofed with Evolight S torch on membrane system must be designed and constructed in accordance with the following limitations.

- nominally flat or pitched roofs and decks constructed to drain water to gutters and drainage outlets complying with the NZBC ;and
- with no steps within the deck level , no integral roof gardens and no down pipes direct discharge to the decks;and
- with the deck membranes continually protected from physical damage by a pedestal protection system.

### 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 B2 Durability:** Performance B2.3.1(b)
- **Clause E2 External moisture:** Performance E2.3.1, E2.3.2
- **Clause F2 Hazardous building materials:** Performance F2.3.1

### Supporting Evidence

The product has and can make available the following additional evidence to support the above statements:



BRANZ Appraisal

[1043](#)

## Product Criteria

### Design requirements

Intended for roofs gutters parapets decks and balcony's. Falls must be built into the substrate.

- minimum falls , roofs 1 in 30 , decks 1:40 and gutters 1:100
- Allowance for deflection and settling must be designed

**masterspec partner**

### Company Contact Details



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- Evolight S is impermeable therefore a means of dissipating construction moisture must be provided in the building design , in compliance with clause E2.3.6
- Drainage droppers must be used and fitted with a clamp and grate to reduce potential blockages.
- Penetrations and up-stands of the membranes must be raised above the level of the possible flooding caused by the blockage of the roof outlet.

## Installation requirements

Installation must be completed by installers , approved by Mapei NZ Ltd. Installations of substrates must be completed by tradesman with an understanding of roof construction.

## Maintenance requirements

The membrane system must be regularly checked for damage(annually) rubbish and debris.

Special care must be taken when inspecting the membrane roof system to ensure the continuing prevention of moisture ingress.

The care and maintenance document - provided by Mapei NZ Ltd - must be followed and maintained through the life of the roof , parapet gutter or balcony.

## Warrantees

Durability warranty periods of 20 years will apply to the Evolight S Roofing and Decking system.

## Company Product Information

### Quality Assurance



ISO 9001 (Quality Management)



Date last validated: **03 August 2023**



Date last updated: **03 August 2023**

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