

## Evolight S – Torch On System

### Building Product Information Requirements Compliance Statement

Date: 09/08/23 (version 2)

Product name: **Evolight S**

Product identifier: **Evolight S**

### Product Line

Evolight S Torch On Membrane System consists of SBS modified, polyester reinforced, bitumen torch on membranes for roofs, decks, and balconies.

### Product Description

Evolight S Torch on Membrane System is a fully bonded, torch on system for use on roofs, gutters, parapets, decks, and balconies. It is used where an impervious waterproof membrane is required. to prevent damage to building elements and adjoining areas. The system can be used on new or existing buildings. Evolight S a 3 mm thick (BASE SHEET), torch-applied, plastomeric bitumen waterproof membrane with ultralight Reoxthene technology and an upper surface finish of talc/sand/lightweight polypropylene, used as a base sheet in a multi-layer system. It is supplied in 1 m x 10 m rolls. Evolight S Mineral, a 4.5 mm thick (CAP SHEET), torch-applied, plastomeric bitumen waterproof membrane with ultra-light Reoxthene technology and an upper surface of slate granule (mineral) used as a cap sheet in a multi-layer system. It is supplied in rolls of 1 m x 10 m rolls in various colours. Substrates: **Plywood substrates** must be treated to H3 (CCA treated). LOSP treated plywood must not be used. Plywood must comply with NZBC Acceptable Solution E2/AS1, Paragraph 8.5.3 and 8.5.5. **Concrete substrates** must be to a specific engineering design meeting the requirements of the NZBC, such as concrete construction to NZS 3101

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WE SUPPLY THE FOLLOWING MAPEI GROUP BRANDS AND SYSTEMS:



## **Relevant Building Code Clauses**

B2 Durability — B2.3.1 (b)

E2 External moisture — E2.3.1, E2.3.2, E2.3.7

F2 Hazardous building materials — F2.3.1

## **Contributions to Compliance**

**Clause B2 DURABILITY:** Performance B2.3.1 (b) 15 years. Evolight S Torch On Membrane System meets this requirement.

**Clause E2 EXTERNAL MOISTURE:** Performance E2.3.1 and E2.3.2. Evolight S Torch On Membrane System meets these requirements.

**Clause F2 HAZARDOUS BUILDING MATERIALS:** Performance F2.3.1. Evolight S Torch On Membrane System meets this requirement.

**REF:** BRANZs Appraisal 1043(2018) for independent assessment.

## **Scope and Design Requirements**

Evolight S Torch on Membrane System has been designed as a roof and deck waterproofing membrane on buildings within the following scope.

The scope limitations of NZBC Acceptable Solution E2/AS1, the scope limitations of NZBC Acceptable Solution E2/AS1, with regard to building height and floor plan area when subject to specific structural design; with substrates of plywood or suspended concrete slab, with minimum falls for **plywood roofs of 1:30, concrete substrates of 1:60** and **plywood decks of 1:40**; and with deck size limited to 40 m<sup>2</sup> situated in NZS 3604 Wind Zones up to, including *Extra High*.

Evolight S Torch On Membrane System has also been designed as roof and deck waterproofing membranes on buildings within the following scope: subject to specific structural and weathertightness design; with substrates of plywood or suspended concrete slab; and, situated in specific design wind pressures up to a maximum design differential ultimate limit state (ULS) of 6 kPa; and, with the weathertightness design of junctions for each specific structure being the responsibility of the building designer.

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 downpipes directly discharging to the deck; and, with the deck membranes continually protected from physical damage by a pedestal protection system.

The design and construction of the substrate and movement and control joints is specific to each building, and therefore is the responsibility of the building designer and building contractor and is outside the scope. The membranes must be installed by MBP (NZ) Ltd approved installers.

### **Conditions and Limitations**

Installation must be completed by installers, approved by MBP (NZ) Ltd.

Installation of substrates must be completed by tradespersons with an understanding of roof construction, in accordance with instructions given within the MBP (NZ) Ltd Technical Literature.

### **Supporting Documentation**

The following additional documentation supports the above statements:

#### **Evolight S Torch on Membrane System (Product datasheet)**

REV - 1 - 21 Product Data Sheet

<https://www.mapei.com/nz/en/products-and-solutions/products/detail/evolight-s--roofing---decking-membrane>

#### **Evolight S Roofing and Decking (Maintenance)**

Care & Maintenance - 23

<https://www.mapei.com/nz/en/products-and-solutions/products/detail/evolight-s--roofing---decking-membrane>

#### **BRANZ Appraisal 1043 (Certification)**

<https://www.mapei.com/nz/en/products-and-solutions/products/detail/evolight-s--roofing---decking-membrane>

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**Warnings and Bans**

Evolight S is not subject to a warning or ban under section 26 of the Building Act 2004.

## **Appendix**

All relevant building code performance clauses listed in this document:

### **B2 Durability**

#### **B2.3.1**

Building elements must, with only normal maintenance, continue to satisfy the performance requirements of this code for the lesser of the specified intended life of the building, if stated, or:

#### **(b)**

15 years if:

those building elements (including the building envelope, exposed plumbing in the subfloor space, and in-built chimneys and flues) are moderately difficult to access or replace, or

failure of those building elements to comply with the building code would go undetected during normal use of the building but would be easily detected during normal maintenance.

### **E2 External moisture**

#### **E2.3.1**

Roofs must shed precipitated moisture. In locations subject to snowfalls, roofs must also shed melted snow.

#### **E2.3.2**

Roofs and exterior walls must prevent the penetration of water that could cause undue dampness, damage to building elements, or both.

#### **E2.3.7**

Building elements must be constructed in a way that makes due allowance for the following:

the consequences of failure:

the effects of uncertainties resulting from construction or from the sequence in which different aspects of construction occur:

variation in the properties of materials and in the characteristics of the site.

**F2 Hazardous building materials****F2.3.1**

The quantities of gas, liquid, radiation, or solid particles emitted by materials used in the construction of buildings, shall not give rise to harmful concentrations at the surface of the material where the material is exposed, or in the atmosphere of any space.

**Version History**

<b>Version number</b>	<b>Written by</b>	<b>Checked by</b>	<b>Date issued</b>	<b>Changes from previous version</b>
V2 09/08/23	JP	PT	24/08/2023	V1 03/08/23