

Waterproofing Systems bituFLAME® torch on tanking

Product Technical Statement: 102938



is an APP membrane manufactured using distilled bitumen formulated with elastomeric polymers.

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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



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

BRANZ Appraisal

[995](#)

Technical Statement

Product Description

bituFLAME is an APP-modified bitumen membrane reinforced with 180 gsm non-woven polyester fabric. bituFLAME has good flexibility at both high and low temperatures.

Scope of use

The bituFLAME specialist tanking membrane system is used to provide waterproofing protection to below ground building structures such as basements, retaining walls, full envelope tanking (vertical and horizontal), carparks, tunnels, underpass walkway tunnels, lift pits, generator rooms and substations.

Substrates include insitu concrete, masonry and polystyrene blocks and tilt slab panels.

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(a)
- **Clause E2 External moisture:** Performance E2.3.3
- **Clause F2 Hazardous building materials:** Performance F2.3.1

Notes

B 2.3.1(a) Durability 50 years

E 2.3.3 Walls, floors, and structural elements in...

F 2.3.1 The quantities of gas, liquid, radiation or...

Evidence

The product meets the requirements set out in the following documents, or relevant parts of cited standards within the documents:

Brnz Appraisal 995

Supporting Evidence

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



BRANZ Appraisal
[995](#)

Use in Service History

25 Years in Service History

Product Criteria

Design requirements

Masonry concrete blocks, in-situ concrete, tilt slabs to be sound, clean and dry, free of concrete release agents and concrete dust and contaminants.

All surfaces to be flush pointed. Moisture content to be 75% RH.

For polystyrene block surfaces flush point any manufacturing grooves, foundation to the polystyrene block construction joint and ensure surface is clean and dry.

Ensure correct primer is used for substrate for the application.



Company Contact Details

BITUFLAME

TANKING MEMBRANE

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Use extruded bitumen fillets where required.

Installation requirements

Refer the Waterproofing Systems installation guidelines and specifications.

Only installed by licenced LBP registered Waterproofing Systems NZ Ltd applicators.

Quality Control checksheets must be completed for each job and kept as a record of evidence to ensure the installation meets WPSNZ specification.

The system should be installed in dry conditions.

The substrate must have a maximum moisture content of 75% RH for concrete at the time of laying.

For extended foundations, install extruded bitumen fillets.

For flush foundation, use bituFLAME strips (for single layer) to create an under flashing at floor-wall construction joint.

Primer is applied at the correct application rate.

Installation of bituFLAME membrane system.

Maintenance requirements

Refer to the Care & Maintenance instructions available on our website and are attached to the Warranty document.

Warrantees

When fixed according to specification and subject to normal environmental conditions and use, the bituFLAME membrane system will have an in-service life of not less than 50 years.

Single Layer : A 15 Year Material Warranty is issued on receipt of Quality Control Checksheet/s and warranty application.

2 Layer : A 20 Year Material Warranty is issued on receipt of Quality Control Checksheet/s and warranty application.



Date last validated: **29 May 2020**



Date last updated: **29 May 2020**

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