

Waterproofing Systems NZ Ltd duroTUF TPO Roof & Deck Membrane

Product Technical Statement: 107649



duroTUF TPO is a high performance environmentally friendly membrane with excellent UV resistance.

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

BRANZ Appraisal

[950](#)



Technical Statement

Scope of use

The duroTUF TPO membrane is used to provide waterproofing protection on commercial, apartments, residential roofs, decks and balconies with a heat weldable accessory range which is fully compatible providing the best waterproofing protection system available on low slope roofs.

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, E2.3.6
- **Clause F2 Hazardous building materials:** Performance F2.3.1

Notes

The duroTUF TPO membrane will meet the following provisions

B2 Durability B2.3.1(b)

E2 External Moisture E2.3.1, E2.3.2 and E2.3.6

F2 Hazardous Building Materials F2.3.1

Evidence

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

AS/NZS 2269 Plywood - Structural

BRANZ Good Practice - Membrane Roofing

AS/NZS 1170:2002 Structural Design action - general principles

NZS3101:2006 The design of Concrete Structures

NZS 3604:2011 Timber Framed Buildings

Acceptable Solutions and Verification Methods for NZBC External Moisture Clause E2

The Building Regulations 1992

Supporting Evidence

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



BRANZ Appraisal

[950](#)

Use in Service History

The in service history of TPO membranes in New Zealand is now 15 years without any issues.

Product Criteria

Design requirements

Plywood and concrete substrates to be clean and fully dry/cured. Plywood: Construction Plywood grade H3.2 CCA treated kiln dried 17mm thick for roofs, 19mm thick for decks.

Concrete: smooth surface finish to be either U2 wood float or U3 steel trowel to NZ 3114.

Company Contact Details



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Specified falls:

Roofs - 2° slope (1:30)

Decks - 1.5° slope (1:40)

Gutters - 1° slope (1:100)

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 duroTUF TPO system should be installed in dry conditions.

The substrate must have a maximum moisture content of 20% for plywood and 75% RH for concrete at the time of laying.

Substrate falls for the installation are correct.

Dropper outlets and scuppers are installed to specification.

Cut-back primer is applied at the correct application rate.

Installation of duroTUF TPO membrane system.

Maintenance requirements

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

Warrantees

When installed to specification and subject to normal environmental conditions and use, the duroTUF TPO membrane system will exceed 20 year period when properly maintained.

A 20 Year material warranty is issued on receipt of Quality Control Checksheet/s and warranty application.

Company Product Information

Environmental

duroTUF TPO membrane is a friendly environmental choice.

White duroTUF TPO is energy star compliant with an SRI (Solar Resistance Index) of 101.

An aspect of sustainable design that is becoming more and more important as the global demand for energy grows, for example, we're using more recycled content.

duroTUF TPO membrane is 100% recyclable.

Quality Assurance



ISO 9001 (Quality Management)



Date last validated: **07 July 2020**



Date last updated: **07 July 2020**

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