



CODEMARK

Certificate No: BRANZ-CM-1007
Date of Issue: 07 August 2020
Revision Date: 07 August 2023

CERTIFICATE HOLDER



TPO Logistics NZ Ltd

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Jeremy Probett
Distributor
TPO Logistics NZ Ltd

CERTIFICATION BODY



BRANZ
BRANZ Limited

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Cheyldra Percy
Chief Executive Officer
BRANZ Limited

PRODUCT CERTIFICATE

THIS IS TO CERTIFY EVERGUARD AND EVERGUARD EXTREME TPO ROOF AND DECK MEMBRANES

KEY INFORMATION

1. DESCRIPTION OF PRODUCT

EverGuard® and EverGuard® Extreme TPO Roof and Deck Membranes are fully bonded, single ply, polyester fabric reinforced, thermoplastic polyolefin (TPO) waterproofing sheet membranes. EverGuard® is a standard membrane and EverGuard® Extreme has increased UV inhibitors and both are available in white or grey. The products are identified by a label on the packaging.

2. USE OF PRODUCT

EverGuard® and EverGuard® Extreme TPO Roof and Deck Membranes are for use for waterproofing nominally flat and low pitch roofs and decks on buildings within the following scope:

- buildings with roof and deck membranes substrates of plywood or concrete; and,
- within the limitations of NZBC Acceptable Solution E2/AS1; Paragraph 1.1 with regards to building height and floor plan area and situated in NZS 3604 Wind Zones, up to, and including Extra High; or
- buildings subject to specific structural and weathertightness design up to a maximum design differential ultimate limit state [ULS] of 6 kPa.

3. COMPLIES WITH THE FOLLOWING PROVISIONS OF THE NEW ZEALAND BUILDING CODE (NZBC)

Clause B1 STRUCTURE: Performance B1.3.1, B1.3.2, B1.3.3(h) and B1.3.4.

Clause B2 DURABILITY: Performance B2.3.1(b) 15 years and B2.3.2(a).

Clause E2 EXTERNAL MOISTURE: Performance E2.3.1, E2.3.2 and E2.3.7.

Clause F2 HAZARDOUS BUILDING MATERIALS: Performance F2.3.1.

4. SUBJECT TO THE FOLLOWING CONDITIONS AND LIMITATIONS

- 4.1 Plywood substrates shall comply with section 8.5 of NZBC Acceptable Solution E2/AS1 when the product is being used within the scope limitations of E2/AS1. Where the product is being used within the scope of this certificate but outside the scope limitations of E2/AS1, plywood substrates and supporting framing shall be subject to specific engineering design.
- 4.2 Reinforced concrete substrates shall be subject to specific engineering design.

The Certificate Holder must maintain compliance with the conditions set out in Regulation 15 of the Building (Product Certification) Regulations 2008.

This Certificate is issued by BRANZ Limited, an independent certification body accredited by the product certification body appointed by the Chief Executive of the Ministry of Business, Innovation and Employment (MBIE) under the Building Act 2004. MBIE does not in any way warrant, guarantee or represent that the building method or product the subject of this certificate conforms with the New Zealand Building Code, nor accept any liability arising out of the use of the building method or product. MBIE disclaims, to the extent permitted by law, all liability (including negligence) for claims of losses, expenses, damages and costs arising as a result of the use of the building method(s) or products(s) referred to in this certificate.

It is advised to check that this Product Certificate is currently valid and not withdrawn, suspended or superseded by a later issue, by referring to the MBIE website, www.mbie.govt.nz

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- 4.3 Plywood must be treated to H3 Hazard Class [CCA treatment]. LOSP treated plywood must not be used.
- 4.4 Roof and deck drainage must be designed and constructed to discharge water to gutters and outlets complying with the NZBC.
- 4.5 The following minimum falls apply:
 - Roofs 1:30
 - Decks 1:40
 - Gutters 1:100
- 4.6 Deck sizes are limited to 40 m² for buildings within the scope limitations of NZBC Acceptable Solution E2/AS1, Paragraph 1.1. Deck sizes greater than 40 m² must be subject to specific weathertightness design.
- 4.7 Decks membranes must be continually protected from physical damage by a suitable pedestal protection system. Where regular foot traffic on a roof is envisaged i.e. maintenance of equipment, a walkway is required to be installed to ensure the membrane is protected. The membranes are intended for limited, irregular pedestrian access only.
- 4.8 There must be no steps within a deck level.
- 4.9 There must be no integral gardens on roofs or decks.
- 4.10 No downpipes are to directly discharge to decks.
- 4.11 The EverGuard® and EverGuard® Extreme TPO Roof and Deck Membranes must be installed in accordance with manufacturers instructions by TPO Logistics Ltd trained and approved installers.

5. HEALTH AND SAFETY

EverGuard® and EverGuard® Extreme Roof and Deck Membranes are TPO based membranes. Suppliers instructions and typical practices for working with handling and maintaining TPO based membranes should be observed.

6. REFERENCE DOCUMENTS

This Product Certificate must be read in conjunction with:

- EverGuard® and EverGuard® Extreme TPO Roof and Deck Membranes, Version 2019.

SCHEDULE: INFORMATION THAT SUPPORTS KEY INFORMATION

7. SUPPORTING INFORMATION ABOUT DESCRIPTION OF PRODUCTS

PRODUCT SPECIFICATION

EverGuard® and EverGuard® Extreme TPO Roof and Deck Membranes - are thermoplastic polyolefin (TPO) sheet laminated around a woven polyester reinforcement. EverGuard® is the standard product and EverGuard® Extreme has increased UV inhibitors. They are supplied in grey or white colour and in rolls 1.1, 1.5 and 2.0 mm thick, 1.2, 1.5 and 3.0 wide and 30.5 m long. Rolls are wrapped in plastic printed with the GAF mark and EverGuard® TPO. Each roll has a sticker attached which gives the product, factory and colour codes. A manufacturing batch number is also printed on the top edge of the membrane. Packaging or containers identifies other components and materials.

EverGuard® TPO Bonding Adhesive - a solvent based, rubberised contact adhesive.

EverGuard® H2O Bonding Adhesive - water based, rubberised contact adhesive.

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EverGuard® TPO Seam Cleaner - a solvent based liquid for cleaning seams prior to heat welding. It is supplied in 1 US Gallon pails.

Performed Vent Boots - a moulded TPO membrane boot designed to fit 25 - 150 mm diameter pipes.

Preformed Corners - moulded TPO membrane inside and outside corners.

UN-55 Detailing Membrane - an unreinforced TPO membrane flashing/reinforcement material for penetrations and corners.

UN-55 T-Joint Cover Patches - an unreinforced TPO membrane cover patch.

Cut Edge Sealant - is a polymer based sealant.

Preformed Split Pipe Boots - are fabricated TPO membrane boots for various sized penetrations.

Corner Curb Wraps - fabricated corners for flashing curbs or plinths.

Pourable Sealer Pockets - for irregular shaped roof penetrations.

8. SUPPORTING INFORMATION ABOUT INTENDED USE OF PRODUCT

DESIGN REQUIREMENTS

Roofs and decks must be designed and constructed to shed precipitated moisture. They must also take account of snowfalls in snow prone areas.

The Technical Literature includes details for weathertightness within scope limitations of NZBC Acceptable Solution E2/AS1, Paragraph 1.1. The design of details outside this scope or not covered by the Technical Literature must be subject to specific weathertightness design and are outside the certification scope.

The minimum fall for roofs is 1:30, for decks 1:40 and for gutters is 1:100. All falls must slope to an outlet. Roof and deck falls must be built into the substrate.

Drainage flanges must be used for any outlet and must be fitted with a grate or cage to reduce potential sources of blockages. An overflow must be provided where the roof does not drain to an external gutter or spouting.

Penetrations and upstands of the membrane must be raised above the level of any possible flooding caused by blockage of roof drainage.

Separation or protection must be provided to EverGuard® and EverGuard® Extreme TPO Roof and Deck Membranes from heat sources such as fire places, heating appliances, flues and chimneys. Part 7 of NZBC Acceptable Solutions C/AS1 and C/AS2 and NZBC Verification Method C/VM1 provide methods for separation and protection of combustible materials from heat sources.

INSTALLATION REQUIREMENTS

EverGuard® and EverGuard® Extreme TPO Roof and Deck Membranes are impermeable; therefore a means of dissipating construction moisture must be provided in the building design and construction to meet code compliance with NZBC Clause E2.3.6.

The effective control of internal moisture must be considered at the design stage due to the impermeability of the membrane. Refer to BRANZ publication Good Practice Guide: Membrane Roofing.

EverGuard® and EverGuard® Extreme TPO Roof and Deck Membranes may be adversely affected by contact with bituminous substances.

Installation of the membranes must be completed by TPO Logistics NZ Ltd approved installers.

MAINTENANCE REQUIREMENTS

In the event of damage to the membrane, it must be repaired by removing the damaged portion and applying a patch as for the new work.

Drainage outlets must be maintained to operate effectively.

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9. SUPPORTING INFORMATION ABOUT CONDITIONS AND LIMITATIONS OF USE

All conditions and limitations provided as stated in this product certificate.

10. BASIS FOR CODEMARK CERTIFICATION

The following evaluations have been carried out on EverGuard® and EverGuard® Extreme TPO Roof and Deck Membranes to determine compliance with the NZBC:

- Compliance with NZBC Clause B1 (Structure) is determined through compliance of plywood substrates with the requirements of NZBC Acceptable solution E2/AS1, concrete substrates with the requirements of NZS 3101, and of the adhesive with the assessment of the adhesive strength to 6 kPa.
- A durability and hazardous building materials assessment has been undertaken of EverGuard® and EverGuard® Extreme TPO Roof and Deck Membranes by BRANZ technical experts.
- A weathertightness assessment has been undertaken of EverGuard® and EverGuard® Extreme TPO Roof and Deck Membranes by BRANZ technical experts.
- Site visits have been carried out by BRANZ to assess the practicability of installation, and to examine completed installations.
- The referenced Technical Literature has been examined by BRANZ and found to be satisfactory.

11. RESPONSIBILITIES FOR USE OF THE CERTIFIED PRODUCT

- TPO Logistics NZ Ltd is responsible for the quality of supply to the market.
- TPO Logistics NZ Ltd approved installers are responsible for the quality of the membrane system installation.
- Building contractors are responsible for the construction of the supporting structure in accordance with the instructions of TPO Logistics NZ Ltd and the building designer.
- Building owners are responsible for the maintenance of the system in accordance with the instructions of TPO Logistics NZ Ltd.

12. DOCUMENTATION SUPPORTING CERTIFICATION

- AS/NZS 1170:2002 Structural Design action - general principles.
- BRANZ Appraisal 823 [2015] - Everguard and Everguard Extreme TPO Roof and Deck Membranes.
- NZS 3101:2006 The design of concrete structures.
- NZS 3604:2011 Timber-framed buildings.
- Ministry of Business, Innovation and Employment Record of Amendments for Compliance Documents and Handbooks.
- The Building Regulations 1992.

13. CONDITIONS RELATING TO NOTIFICATION

The certificate holder [TPO Logistics NZ Ltd] must notify the product certification body [BRANZ] in writing, of any intended change to any of the following particulars:

- The name, address, or contact details of the certificate holder;
- Any address of a location where a certified product is produced or manufactured.

The certificate holder shall notify the product certification body in writing of any intended change, modification, or alteration to any of the following:

- The certified building method or product;
- The method of its production or manufacture;
- The Product Quality Plan prepared in respect of the certified building method or product;

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- The application or installation instructions for the certified building method or product;
- Any documentation relating to the use and maintenance of the certified building method or product.

If the certificate holder has any reason to suspect that the certified building method or product does not comply with the Building Code, the certificate holder shall notify the product certification body in writing of the reason for that suspicion.

If the certificate holder or the product certification body finds that a certified building method or product that has been released on the market does not comply with the Building Code, the certificate holder shall disclose that fact in a published disclosure statement in a form that is acceptable to the product certification body and to MBIE.

If the certificate is suspended or revoked, the certificate holder—

- Shall notify all customers to whom the building method or product is regularly supplied; and
- Immediately cease using the certificate, the mark of conformity, and any reference to the number of this certificate.

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