



BRANZ Appraised

Appraisal No. 1310 [2026]

PREPRUFE® 300R PLUS DAMP PROOF AND TANKING MEMBRANE (ALLCO)

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BRANZ Appraisals

Technical Assessments of
products for building and
construction.



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Product

- 1.1 PREPRUFE® 300R Plus Damp Proof and Tanking Membrane is a pre-applied damp-proof membrane (DPM) and tanking membrane for basement retaining walls and floors. It is applied under floor slabs and foundations and to the exterior face of basement retaining walls to prevent liquid water or water vapour penetrating to the interior face in spaces where moisture may cause damage.
- 1.2 PREPRUFE® 300R Plus is supplied as multi-layered composite sheets in roll form.

Scope

- 2.1 PREPRUFE® 300R Plus has been appraised for use as a tanking membrane within the following scope:
 - on buildings subject to specific design with substrates of in-situ or precast concrete complying with NZS 3101; and,
 - where the membrane is subject to hydrostatic pressure with the pressure not to exceed 2 bar [20 m head of water].
- 2.2 PREPRUFE® 300R Plus must be adequately protected against damage during backfilling and in service.
- 2.3 The products must be installed by Allco Waterproofing Solutions Ltd licensed applicators.

Building Regulations

New Zealand Building Code (NZBC)

- 3.1 In the opinion of BRANZ, PREPRUFE® 300R Plus Damp Proof and Tanking Membrane, if designed, used, installed and maintained in accordance with the statements and conditions of this Appraisal, will meet the following provisions of the NZBC:

Clause B2 DURABILITY: Performance B2.3.1 [a] not less than 50 years. PREPRUFE® 300R Plus meets this requirement. See Paragraph 9.1.

Clause E2 EXTERNAL MOISTURE: Performance E2.3.3. PREPRUFE® 300R Plus meets this requirement. See Paragraphs 11.1–11.3.

Clause F2 HAZARDOUS BUILDING MATERIALS: Performance F2.3.1. PREPRUFE® 300R Plus meets this requirement.

Technical Specification

- 4.1 Materials supplied by Allco Waterproofing Solutions Ltd and GCP Australia Pty Ltd are as follows:
- **PREPRUFE® 300R Plus** - a pre-applied, multi-layered composite sheet comprising of a thick HDPE film, pressure-sensitive adhesive and a weather-resistant protective coating for use as a below ground DPM or tanking membrane. PREPRUFE® 300R Plus is a tougher grade used for horizontal applications and vertical detailing. It is supplied in 1.2 mm thick x 1.2 m wide x 30 m long rolls.
 - **PREPRUFE® Tape LT** - a pre-applied, multi-layered composite sheet comprising of a thick HDPE film pressure-sensitive adhesive, a weather-resistant protective coating and a self-adhesive underside used to detail all PREPRUFE® installations. It is supplied in 0.7 mm thick x 100 mm wide x 15 m long rolls.
 - **PREPRUFE® CJ Tape LT** - a pre-applied, multi-layered composite sheet comprising of a thick HDPE film pressure-sensitive adhesive, a weather-resistant protective coating and a self-adhesive underside used to detail construction joints in PREPRUFE® installations. It is supplied in 0.7 mm thick x 200 mm wide x 15 m long rolls.
 - **BITUTHENE® Liquid Membrane** - a two-component, polyurethane-bitumen mastic used to seal critical areas and details. It is supplied as a 5.7 L pail kit.
 - **SWELLSEAL® Mastic WA** - hydrophilic mastic waterstop as secondary waterproofing to construction joints, piles, pile caps, around cast-in penetrations and similar areas. There is one grade only, suitable for fresh, salt and brackish waters.
 - **Waterstop RX-DH** - a flexible strip waterstop manufactured from 75% sodium bentonite and 25% butyl rubber. It is primarily designed to stop water infiltration through both vertical and horizontal concrete construction joints, junctions between new and existing construction, irregular surfaces and around wall penetrations such as plumbing and electrical conduits. It is supplied in 6.1 m long rolls.
 - **Waterstop XP** - a hydrophilic expanding strip waterstop that provides a positive seal in horizontal and vertical concrete construction joints. Specifically for use in low pH or high saline environments. It is supplied in 6 m long rolls.
 - **Aquadrain 15X** - a prefabricated drainage composite consisting of a heavy filter fabric adhered to a high strength plastic drainage core. It is supplied in 1.2 m wide x 15.6 m long rolls.

Handling and Storage

- 5.1 Handling and storage of all materials, whether on-site or off-site, is under the control of the installer. Dry storage must be provided for all products and the membranes must be protected from sunlight and ultraviolet (UV) radiation. Rolls of membrane must be stored on end.
- 5.2 Products must be within their shelf life at the time of installation.

Technical Literature

- 6.1 This Appraisal must be read in conjunction with:
- Work Method Statement (WMS): DGL - Allco, PREPRUFE® 300R Plus – Pre-Applied Waterproofing Membrane – NZ, Version 2.0, dated 07/07/2026.
- 6.2 All aspects of design, use, installation and maintenance contained in the Technical Literature and within the scope of this Appraisal must be followed.

Design Information

Substrate Design

Control Joints

- 7.1 Where control or construction joints are formed in the substrate, Allco Waterproofing Solutions Ltd must be consulted for use of the membranes over these joints.

Concrete Slab-on-ground

- 7.2 The membrane must be laid on a minimum of 75 mm thickness of site concrete or well compacted sand. The structural concrete slab placed over the membranes must be a minimum of 100 mm thick.

Backfilling and Drainage

- 8.1 As PREPRUFE® 300R Plus is a pre-applied DPM tanking membrane on specifically designed substrates, there is no backfilling required.

Durability

Serviceable Life

- 9.1 PREPRUFE® 300R Plus is expected to have a serviceable life of at least 50 years, provided it is installed and maintained in accordance with this Appraisal and continually protected from sunlight and UV radiation.

Maintenance

- 10.1 Annual inspections must be made of the membrane's top edge seal and protection, and the drainage pipe to ensure all are functioning as originally designed.
- 10.2 If required, the drainage pipe must be cleared to remove any sediment or silt build-up. The slope of the backfill capping must be maintained at all times.

External Moisture

- 11.1 PREPRUFE® 300R Plus when installed in accordance with this Appraisal and the Technical Literature will prevent water vapour (DPM) from penetrating to the interior face of basement retaining walls and floors in spaces where moisture may cause damage. The membrane has a vapour flow resistance of not less than 90 MN s/g.
- 11.2 The membrane can be used to form sealed joints and to seal penetrations. The top edge of the membrane must be sealed to the wall as set out in the Technical Literature and protected.
- 11.3 Building designers must ensure junctions with other membranes, such as at the floor/wall junction, form a waterproof joint. These junctions have not been assessed and are outside the scope of this Appraisal.

Installation Information

Installation Skill Level Requirement

- 12.1 All design and building work must be carried out in accordance with the PREPRUFE® 300R Plus Technical Literature and this Appraisal. All building work must be undertaken by Allco Waterproofing Solutions Ltd licensed applicators. Where the work involves Restricted Building Work (RBW), this must also be completed by, or under the supervision of, a Licensed Building Practitioner (LBP) with the relevant Licence Class.

System Installation

Site Preparation

- 13.1 All surfaces are to be sound and solid to eliminate movement during concrete placement. Substrates must be regular and smooth with no gaps or voids greater than 12 mm. Grout must be used around all penetrations such as utility conduits for stability.

Membrane Installation

- 13.2 PREPRUFE® 300R Plus must be installed to all areas required to achieve a waterproof finish, in accordance with Allco Waterproofing Solutions Ltd's Technical Literature. Temperatures must be -4°C or above during installation.
- 13.3 The HDPE film must be facing the prepared substrate and the treated white coating surface facing the new concrete. The end laps must be staggered to avoid build up of layers.

- 13.4 Vertical lengths greater than 2.4 m must be mechanically fastened under the vertical laps at 0.6 m intervals using flat head nails or fixings suitable for the substrate. Fixings are to be placed through the lap so that the membrane lays flat to enable heavy rolling. Fixings within the sheet must be covered with a patch of PREPRUFE® Tape.
- 13.5 All cut ends or laps must be completed using PREPRUFE® Tape.
- 13.6 Concrete must be placed within 56 days.

Inspections

- 13.7 The Technical Literature and the installation company's Quality Control sheets must be referred to during the inspection of the membrane installation.

Health and Safety

- 14.1 Safe use and handling procedures for the membranes are provided in the Technical Literature.

Basis of Appraisal

The following is a summary of the technical investigations carried out:

Tests

- 15.1 The following testing of PREPRUFE® 300R Plus has been undertaken:
 - Tensile strength, elongation, nail tear, water vapour permeability, low temperature flexibility after heat ageing, static indentation, dynamic indentation, unrolling at low temperatures, resistance to water pressure [also tested on joints], peel resistance from concrete heat aged, resistance to sliding, tensile strength of joints, chisel impact, air leakage, shear strength of joints, water vapour transmission, tensile strength, tear resistance, watertightness and resistance to static loading.
- 15.2 Test methods and results have been reviewed by BRANZ and found to be satisfactory.

Other Investigations

- 16.1 A durability opinion has been given by BRANZ technical experts.
- 16.2 Practicability of installation has been assessed by BRANZ and found to be satisfactory.
- 16.3 The Technical Literature has been examined by BRANZ and found to be satisfactory.

Quality

- 17.1 The manufacture of the membranes and accessory products have not been examined by BRANZ, but details regarding the quality and composition of the materials used were obtained by BRANZ and found to be satisfactory.
- 17.2 The quality of materials supplied to the market is the responsibility of Allco Waterproofing Solutions Ltd.
- 17.3 Quality of installation and shelf life validity of materials on-site is the responsibility of the Allco Waterproofing Solutions Ltd licensed applicator.
- 17.4 Designers are responsible for the building design, and building contractors are responsible for the quality of construction of substrate systems in accordance with the instructions of Allco Waterproofing Solutions Ltd.
- 17.5 Building owners are responsible for the maintenance of the membrane systems in accordance with the instructions of Allco Waterproofing Solutions Ltd.



Sources of Information

- NZS 3101:2006 Concrete structures standard.
- NZS 3604:2011 Timber-framed buildings.
- NZS 4229:2013 Concrete masonry buildings not requiring specific engineering design.
- NZS 4230:2004 Design of reinforced concrete masonry structures.
- Ministry of Business, Innovation and Employment Record of amendments - Acceptable Solutions, Verification Methods and handbooks.
- The Building Regulations 1992.



In the opinion of BRANZ, **PREPRUFE® 300R Plus Damp Proof and Tanking Membrane [Allco]** is fit for purpose and will comply with the Building Code to the extent specified in this Appraisal provided it is used, designed, installed and maintained as set out in this Appraisal.

The Appraisal is issued only to **GCP Australia Pty Ltd**, and is valid until further notice, subject to the Conditions of Appraisal.

Conditions of Appraisal

1. This Appraisal:
 - a) relates only to the product as described herein;
 - b) must be read, considered and used in full together with the Technical Literature;
 - c) does not address any Legislation, Regulations, Codes or Standards, not specifically named herein;
 - d) is copyright of BRANZ.
2. **GCP Australia Pty Ltd:**
 - a) continues to have the product reviewed by BRANZ;
 - b) shall notify BRANZ of any changes in product specification or quality assurance measures prior to the product being marketed;
 - c) abides by the BRANZ Appraisals Services Terms and Conditions;
 - d) warrants that the product and the manufacturing process for the product are maintained at or above the standards, levels and quality assessed and found satisfactory by BRANZ pursuant to BRANZ's Appraisal of the product.
3. BRANZ makes no representation or warranty as to:
 - a) the nature of individual examples of, batches of, or individual installations of the product, including methods and quality of work;
 - b) the presence or absence of any patent or similar rights subsisting in the product or any other product;
 - c) any guarantee or warranty offered by **GCP Australia Pty Ltd**.
4. Any reference in this Appraisal to any other publication shall be read as a reference to the version of the publication specified in this Appraisal.
5. BRANZ provides no certification, guarantee, indemnity or warranty, to **GCP Australia Pty Ltd** or any third party.

For BRANZ



Claire Falck
Chief Executive
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