



BRANZ Appraised

Appraisal No. 884 [2025]

FIBERTITE ROOFING SYSTEMS

Appraisal No. 884 [2025]

This Appraisal replaces BRANZ
Appraisal No. 884 [2020]



BRANZ Appraisals

Technical Assessments of
products for building and
construction.

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Product

- 1.1 FiberTite Roofing Systems are fully-bonded, ketone ethylene ester [KEE] based waterproofing membranes for roofs and decks.

Scope

- 2.1 FiberTite Roofing Systems have been appraised as roof and deck waterproofing membranes on buildings within the following scope:
 - the scope limitations of NZBC Acceptable Solution E2/AS1; or,
 - the scope limitations of NZBC Acceptable Solution E2/AS1 with regard to building height and floor plan area when subject to specific structural design; and,
 - with substrates of plywood or suspended concrete slab; and,
 - with minimum falls for plywood roofs of 1:30, concrete roofs of 1:60 and plywood and concrete decks of 1:40; and,
 - with deck size limited to 40 m²; and,
 - situated in NZS 3604 Wind Zones up to, and including, Extra High.
- 2.2 FiberTite Roofing Systems have also been appraised as roof and deck waterproofing membranes on buildings within the following scope:
 - subject to specific structural and weathertightness design; and,
 - 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.
- 2.3 Roofs and decks waterproofed with FiberTite Roofing Systems 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.
- 2.4 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 of this Appraisal.
- 2.5 The membranes must be installed by Rooflogic Limited approved applicators.

Building Regulations

New Zealand Building Code (NZBC)

3.1 In the opinion of BRANZ, FiberTite Roofing Systems, 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 [b] 15 years. FiberTite Roofing Systems meet this requirement. See Paragraphs 10.1 and 10.2.

Clause E2 EXTERNAL MOISTURE: Performance E2.3.1 and E2.3.2. FiberTite Roofing Systems meet these requirements. See Paragraphs 13.1-13.9.

Clause F2 HAZARDOUS BUILDING MATERIALS: Performance F2.3.1. FiberTite Roofing Systems meet this requirement.

Technical Specification

4.1 Materials supplied by Seaman Corporation are as follows:

- **36 mil FiberTite** - a KEE-based membrane, reinforced with 840 x 1,000 denier weft reinforced polyester knit fabric. It is supplied as a 0.91 mm thick light grey sheet membrane in rolls either 1.88 or 2.54 m wide and 30.48 m long.
- **36 mil FiberTite-FB** - a KEE-based membrane, reinforced with 840 x 1,000 denier weft reinforced polyester knit fabric and has a non-woven polyester felt heat bonded to the underside. It is supplied as a 0.91 mm thick light grey sheet membrane in rolls either 1.88 or 2.54 m wide and 30.48 m long.
- **45 mil FiberTite** - a KEE-based membrane, reinforced with 840 x 1,000 denier weft reinforced polyester knit fabric. It is supplied as a 1.14 mm thick light grey sheet membrane in rolls either 1.88 or 2.54 m wide and 30.48 m long.
- **45 mil FiberTite-SM** - a KEE-based membrane, reinforced with 840 x 1,000 denier weft reinforced polyester knit fabric. The underside of the membrane has a slightly modified version of the KEE compound. It is supplied as a 1.14 mm thick, light grey sheet membrane in rolls either 1.88 or 2.54 m wide and 30.48 m long.
- **45 mil FiberTite-SM-FB** - a KEE-based membrane, reinforced with 840 x 1,000 denier weft reinforced polyester knit fabric. The underside has a slightly modified version of the KEE compound and a heat-bonded non-woven polyester felt. It is supplied as a 1.14 mm thick light grey sheet membrane in rolls either 1.88 or 2.54 m wide and 30.48 m long.
- **FTR 101** - a general purpose, single component, moisture curing polyether sealant. It is coloured white and supplied in 330 ml cartridges.
- **FTR 190e** - a low VOC solvent-borne contact adhesive for bonding the non-fleece back FiberTite membranes. It is an amber colour and supplied in 5 US Gallon pails [18.9 L].
- **FTR 490** - a high performance, polymeric water-borne adhesive for bonding the FiberTite fleece back membranes. It is coloured white and supplied in 5 US Gallon pails [18.9 L].
- **FiberTite CR-20 Polyurethane Foam Adhesive** - a 3M™ polyurethane foam insulation and fleece back membrane adhesive. It is a two-component adhesive.
- **FiberClad Coated Metal** - a heat weldable, polymeric coated sheet metal flashing used with all FiberTite Roofing Systems. It is supplied as 1.2 x 3 m sheet, 0.50 mm thick.
- **Flashing Accessories** - are pre-moulded and sheet form, non-reinforced accessories to be used with the FiberTite Roofing Systems.
- **Fixing Accessories** - a range of washers and fasteners for the various application of FiberTite Roofing Systems.

Handling and Storage

- 5.1 Handling and storage of all materials, whether on-site or off-site, is under the control of the Rooflogic Limited approved applicators. Dry storage must be provided for all products and the rolls of membrane must be stored in an upright position.

Technical Literature

- 6.1 This Appraisal must be read in conjunction with:
- FiberTite Details: FT-V01 [Barge End], FT-V01 [Parapet Cover Flashing], FT-VT02 Roof/Cladding Junction], FT-VT02 [Change in Pitch transition Membrane to Metal Roofing], FT-VT03, FT-VT04, FT-RWM01, FT-RWM02, FT-RWM03, FT-RWM05, FT-RWM06, FT-RWM07, FT-T01, FT-SL01, FT-P01, FT-P03, all dated Mar 15.
- 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

General

- 7.1 FiberTite Roofing Systems are fully-bonded, single layer systems for use on roofs, decks, gutters and parapets. There are five membranes available, refer to Paragraph 4.1 for options. They are used where an impervious waterproof membrane is required to prevent damage to building elements and adjoining areas. The products can be used on new or existing buildings. Rooflogic Limited should be consulted as to the suitability of any existing substrates prior to using FiberTite Roofing Systems.
- 7.2 The effective control of internal moisture must be considered at the design stage due to the impermeability of the membranes. Refer to the BRANZ Good Practice Guide: Membrane Roofing.
- 7.3 All the systems require a pedestal protection system for when anything other than irregular maintenance foot traffic is expected. Rooflogic Limited should be consulted for the best system to meet the design requirements.

Structure

- 8.1 FiberTite Roofing Systems as fully bonded single layer systems are suitable for use in areas subject to maximum wind pressures of 6 kPa ULS.

Substrates

Plywood

- 9.1 Plywood must be treated to H3 [CCA treated]. LOSP treated plywood must not be used. Plywood must comply with NZBC Acceptable Solution E2/AS1. Where specific design is used [i.e. outside the scope of NZBC E2/AS1], the plywood thickness and fixing size may increase and centres may decrease to meet specific wind loadings. Timber framing must comply with NZS 3604, or where specific engineering design is used, the framing shall be of at least equivalent stiffness to the framing provisions of NZS 3604, or comply with the serviceability criteria of AS/NZS 1170. In all cases, framing must be provided so that the maximum span of the substrate as specified by the substrate manufacturer is met and all sheet edges are fully supported.

Concrete

- 9.2 Concrete substrates must be to a specific engineering design meeting the requirements of the NZBC, such as concrete construction to NZS 3101.

Existing Construction

- 9.3 A thorough inspection of the substrate must be made to ensure it is in fit condition and does not contain any materials that will adversely affect the performance of the membrane.

- 9.4 Repairs must be undertaken, where applicable, to ensure the substrate is sound, the joints are sealed, and the flashings are sound. Plywood substrates must be checked for screw fixings, and, if necessary, refixed as for new plywood.

Durability

Serviceable Life

- 10.1 FiberTite Roofing Systems are expected to have a minimum durability of at least 15 years, with an expected serviceable life of 25 years, provided they are designed, used, installed and maintained in accordance with this Appraisal and the Technical Literature.

Chemical Resistance

- 10.2 Industrial air pollutants and windborne salt deposits should not significantly affect the durability of the membranes. However, the long term properties of the material may be affected by contact with low molecular weight petroleum distillates.

Maintenance

- 11.1 The membrane roof and deck systems must be regularly [at least annually] checked for damage, rubbish and debris. Damage, such as small punctures and tears must be repaired as recommended by Rooflogic Limited.
- 11.2 Special care must be taken when inspecting the membrane roof systems to ensure the continuing prevention of moisture ingress, and repairs must be undertaken where required.
- 11.3 Drainage outlets must be maintained to operate effectively.

Prevention of Fire Occurring

- 12.1 Separation or protection must be provided to FiberTite Roofing Systems from heat sources such as fireplaces, heating appliances and chimneys. NZBC Acceptable Solutions C/AS1 and C/AS2 provide methods for separation and protection of combustible materials from heat sources.

External Moisture

- 13.1 Roofs and decks must be designed and constructed to shed precipitated moisture. They must also take account of snowfalls in snow prone areas. A means of meeting code compliance with NZBC Clause E2.3.1 is given by the Technical Literature which aligns with details in NZBC Acceptable Solution E2/AS1.
- 13.2 When installed in accordance with this Appraisal and the Technical Literature, FiberTite Roofing Systems will prevent the penetration of water and will therefore meet code compliance with NZBC Clause E2.3.2. The membranes are impervious to water and will give a weather-tight roof.
- 13.3 Roof and deck falls must be built into the substrate.
- 13.4 The minimum fall for plywood roofs is 1 in 30, concrete roofs 1 in 60, decks 1 in 40 and for gutters 1 in 100. All falls must slope to an outlet. Inadequate falls will allow moisture to collect and increase the risk of deterioration of the membrane. *[Note: Where possible, a fall of 1 in 60 in the gutters is preferred.]*
- 13.5 Allowance for deflection and settlement of the substrate must be made in the design of the roof to ensure falls are maintained and no ponding of water can occur.
- 13.6 FiberTite Roofing Systems 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.
- 13.7 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.
- 13.8 Penetrations and upstands of the membranes must be raised above the level of any possible flooding caused by the blockage of roof drainage.
- 13.9 The design of details not covered by the Technical Literature is subject to specific weathertightness design and is outside the scope of this Appraisal.

Installation Information

Installation Skill Level Requirement

- 14.1 All design and building work must be carried out in accordance with the FiberTite Roofing Systems Technical Literature and this Appraisal. All building work must be undertaken by Rooflogic Limited approved 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.

Preparation of Substrates

- 15.1 Substrates must be dry, clean and stable before installation commences. Surfaces must be smooth and free from nibs, sharp edges, dust, dirt or other materials such as oil, grease or concrete formwork release agents. All surface defects must be filled to achieve an even and uniform surface.
- 15.2 The relative humidity of concrete substrates must be 75% or less before membrane application. The concrete can be checked for dryness by using a hygrometer, as set out in BRANZ Bulletin No. 585.
- 15.3 The moisture content of the plywood and timber substructure must be a maximum of 20% and the plywood sheets must be dry at time of membrane application. This will generally require plywood sheets to be covered until just before the membrane is laid, to prevent rain wetting.

Membrane Installation

- 16.1 The installation of this membrane system is very complex and limited to approved applicators only. The Rooflogic Limited Applicator's Manual should be referred to in all instances for the correct procedures.

Inspections

- 17.1 Critical areas of inspection for waterproofing systems are:
- Construction of substrates, including crack control and installation of bond breakers and movement control joints.
 - Moisture content of the substrate prior to the application of the membrane.
 - Acceptance of the substrate by the membrane installer prior to application of the membrane.
 - Installation of the membrane to the membrane marketer's instructions.

Health and Safety

- 18.1 Safe use and handling procedures for FiberTite Roofing Systems are provided in the Technical Literature. The products must be used in conjunction with the relevant Material Safety Data Sheets for each membrane.

Basis of Appraisal

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

Tests

- 19.1 Testing of FiberTite Roofing Systems has been undertaken by the following organisations:
- British Board of Agrément - tensile strength, elongation, resistance to tear, dimensional stability, water vapour transmission, water absorption, resistance to water pressure, resistance to folding at low temperature, static indentation over concrete, dynamic indentation over perlite, fatigue cycling [500 cycles at -10°C], peel resistance of welded joint, shear strength of welded joint
 - International Code Council Evaluation Service (ICC-ES) has issued an ESR Report. The report states that the materials have been assessed based upon satisfactory independent test results to the requirements of AC75-2010.
- 19.2 BRANZ has reviewed the information and has found it to be satisfactory.

Other Investigations

- 20.1 A durability opinion has been provided by BRANZ technical experts.
- 20.2 Installation of the membranes has been assessed by BRANZ for practicability and found to be satisfactory.
- 20.3 The Technical Literature has been examined by BRANZ and found to be satisfactory.

Quality

- 21.1 The manufacture of the FiberTite Roofing Systems has 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.
- 21.2 The quality of supply of the product to the market is the responsibility of Rooflogic Limited.
- 21.3 Quality on-site is the responsibility of the Rooflogic Limited approved applicators.
- 21.4 Designers are responsible for the substrate design, and building contractors are responsible for the quality of construction of substrate systems, in accordance with the instructions of the substrate supplier, Rooflogic Limited and this Appraisal.

Sources of Information

- AS/NZS 1170:2002 Structural design action - General principles.
- AS/NZS 2269:2012 Plywood - Structural.
- BRANZ Good Practice Guide: Membrane Roofing [Second Edition], October 2015.
- ICC-ES - AC75 - Membrane roof covering systems, July 2010.
- NZS 3101:2006 Concrete structures standard.
- NZS 3604:2011 Timber-framed buildings.
- Ministry of Business, Innovation and Employment Record of amendments - Acceptable Solutions, Verification Methods and handbooks.
- The Building Regulations 1992.



In the opinion of BRANZ, **FiberTite Roofing Systems** are fit for purpose and will comply with the Building Code to the extent specified in this Appraisal provided they are used, designed, installed and maintained as set out in this Appraisal.

The Appraisal is issued only to **Seaman Corporation**, 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. **Seaman Corporation:**
 - 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 **Seaman Corporation**.
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 **Seaman Corporation** or any third party.

For BRANZ



Claire Falck

Chief Executive

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26 November 2025