

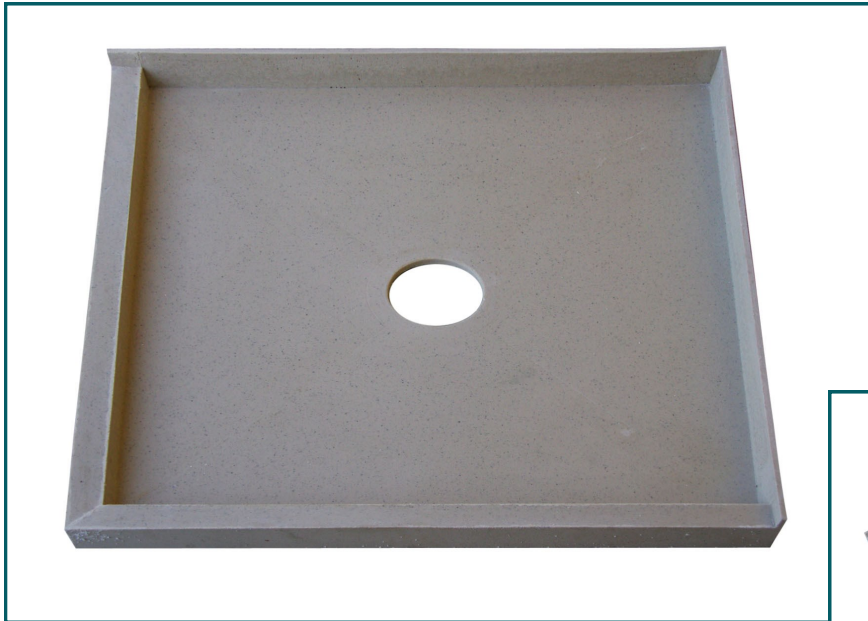


EXPIRES 30 JUNE 2022

BEAL Appraisal Certificate



The TileEzy Range of Shower Bases



Product

- 1.1 The TileEzy Shower Bases are a range of water resistant products designed for use in showers where tiled floors and walls are specified. The products offer durable, water impermeable and aesthetically pleasing solutions for shower installations.
- 1.2 The products are pre-formed HD EPS foam shapes with a waterproof resin, containing non-organic ingredients, which the manufacturer believes could be durable as a cementitious material.

Building Regulations

- 2.1 In the opinion of BEAL, the TileEzy Shower Base products, when designed, installed and maintained in accordance with the statements and conditions of this Appraisal Certificate, will meet the following provisions of the New Zealand Building Code:
- 2.2 Clause B1 MECHANICAL ADHESION
Performance B1.3.2 where the recommended accessories are used Refer 7.1
- 2.3 Clause B2 DURABILITY
Performance B2.3.1(b) 15 years where additional protection of the product is provided. See paragraphs 8.1 - 8.3
- 2.4 Clause E3 INTERNAL MOISTURE
Performance E3.3.3. "Floor surfaces of any space containing sanitary fixtures or sanitary appliances must be impervious and easily cleaned. See paragraphs 9.1 - 9.2
- 2.5 Clause F2 HAZARDOUS BUILDING MATERIALS
Performance F2.3.1. The TileEzy Shower Bases products meets this requirement and will not present a health hazard to people. See paragraph 10.1
- 2.6 Clause H1 ENERGY EFFICIENCY
Performance H1.3.1 The thermal properties of the products contribute to the building's energy efficiency. Refer P 11.1.
- 2.7 The TileEzy Shower Base system has been appraised as an **Alternative Solution** in terms of the Building Code

Applicant:

**ELIM New Zealand Ltd.**

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The most up to date version of this BEAL Appraisal Certificate can be viewed at www.beal.co.nz

Scope and Limitations

3.1 The TileEzy's range of Shower Bases have been appraised for use as an Interior sanitary fixture, incorporating a waste water outlet, within the following scope:

- Scope limitations of NZBC Acceptable Solution E3/AS1, Paragraph 3.1.1; and,
- Constructed with timber framing complying with the NZBC; or,
- Constructed with steel framing complying with the NZBC; and,

3.2 Installation of components and accessories supplied by ELIM New Zealand Ltd must be carried out only by personnel trained and approved by ELIM New Zealand Ltd.

Technical Literature

4.1 Refer to the TileEzy Technical Manual version 3.0. All aspects of design, use, installation and maintenance contained within the Technical Literature and scope of this Appraisal Certificate must be followed .

4.2 For a copy of this Technical Literature and any subsequent updates please refer to:

www.showerbase.co.nz

Technical Specification

Shower Bases

5.1 The composition of the products supplied by ELIM NZ Ltd. are as follows:

The products are pre-formed foam shapes over which is a durable waterproofing membrane, to which a tile adhesive and tiles can be applied. There is a range of shower base sizes which are described in TABLE 1.

Accessories

5.2 Accessories approved by ELIM NZ Ltd. for use with the products include:

- **Sealant**

Ecofix tile adhesive has been found suitable as an adhesive under the shower bases.

- **Neutral Cure Silicone**

Holdfast's FixAll and Den Braven's HYBRIFIX have been approved as a sealant or adhesive applied between the shower base and the surface of the flange.





- **Waterproof Membranes**

Superflex from Ardex and Dampfix Gold from Bostik NZ have been determined as a compatible waterproofing membrane with the products.

Handling and Storage

5.3 The product must be stored inside, in a well

TABLE 1

Shape	Model	Dimension (mm)	Available options*
	TE-D900 TE-D950 TE-D1000 TE-D1050	900 x 900 950 x 950 1000 x 1000 1050 x 1050	a, b
	TE-S900 TE-S950 TE-S1000 TE-S1050	900 x 900 950 x 950 1000 x 1000 1050 x 1050	a, b
	TE-C90XX TE-C10XX	900 x 900~3000 1000 x 1000~3000	
	TE-R9012 TE-R95125	900 x 1200 950 x 1250	

D: Diamond
S: Square
C: Custom size
R: Rectangle

a: outlet in central round area
b: outlet in corner round area

ventilated area, up off concrete floors, kept dry, out of direct sunlight and away from freezing conditions.

Design Information

General

6.1 The TileEzy products are for use on new and existing floors in wet rooms where a tiled, waterproof surface finish is required to prevent damage to building elements and adjoining areas.

6.2 Use of the TileEzy products are designed to provide a simple solution for designers, builders and installers of tiled showers, a pre-formed base that is quick and easy to install.

6.3 It is essential that the subfloor structure be inspected for structural durability before installing the TileEzy products.

6.4 At the conclusion of the inspection, particularly for renovation work, it may be determined that there is a need for repair or replacement of part of the floor substructure. Any such repair or replacement work is to be to specific design and is therefore the responsibility of the owner/building designer.

Repaired Suspended Concrete Floors

6.5 Repaired concrete suspended floors must be to a specific engineered design, meeting the requirements of the NZBC. E.g. NZS 3101.

Mechanical Performance - Clause B1

7.1 The TileEzy products when used in accordance with this Appraisal Certificate meet this performance.

Durability - Clause B2

8.1 The TileEzy products when used in accordance with this Appraisal Certificate and subjected to normal conditions of environment and use, is expected to have a serviceable life of at least 15 years.

Maintenance

8.2 The maintenance of the completed application of the TileEzy's Shower Base with sealants and waterproof system, is described in the ELIM NZ Ltd. Technical Manual. This consists of annual inspection and, where necessary, removal of objects or contamination materials that could reduce the performance and/or life of the installed system.

8.3 In the event of damage to the tiles or and membrane, the location and details along with photos shall be recorded with a copy supplied to the applicator company or ELIM NZ Ltd. for actioning. No applicator may carry out repairs without the prior approval of ELIM NZ Ltd.

8.4 Drainage outlets must be maintained to operate properly and surface finishes must be kept clean.

Internal Moisture - Clause E3

9.1 The installation of the TileEzy products and specified accessories will contribute to a building meeting the performance requirements of Clause E3 of the New Zealand Building Code. The specific requirements of such are detailed in the ELIM NZ Ltd. Technical Manual and need to be strictly followed.

9.2 The design of details not included within the Technical Literature are subject to specific design and are outside the scope of this Appraisal Certificate.

Hazardous Building Materials - Clause F2

10.1 The TileEzy products when installed according to

the requirements of this appraisal meets this requirement and will not present a health hazard to people using the building.

Energy Efficiency - Clause H1

11.1 The highly insulative material incorporated into the TileEzy products contributes to a building meeting its 'building performance index'. Note that the insulation rating of the TileEzy shower base is not affected by the installation of TileEzy Shower Niches where also used.

Installation Information

Installation Skill Requirement

12.1 Installation of the TileEzy products shall be by personnel trained and approved by ELIM New Zealand Ltd.

Preparation of Substrates

12.2 Floor 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.

12.3 New concrete must have cured for minimum of 28 days and must have a relative humidity reading of less than 75% before application of the waterproofing membrane.

12.4 The moisture content of any new timber floor or wall framing and substructure must be no higher than 18%. Fibre-cement and plywood sheet shall be dry with a moisture content being no greater than that stipulated by the manufacturer, at the time of installation.

Health and Safety

12.5 The safe use and handling of the coating system and related products are provided in the Technical Literature. The products must used in conjunction with the relevant materials safety data sheet for each product.

Basis of Appraisal

BEAL use the compliance verification procedure to demonstrate compliance with the relevant clauses of the NZBC based on a risk analysis procedure. The following is a summary of the technical investigations carried out

Assessments

13.1 The following assessments of the TileEzy Shower Bases have been undertaken by BEAL: Review of test data and technical literature and installation information supplied by ELIM NZ Ltd.

Tests

14.1 The following testing has been undertaken by BEAL to verify compliance:

- Mechanical adhesion
- Durability by way of mechanical testing
- Durability by way of adhesion testing of nominated sealants to specified substrates before and after accelerated age conditioning
- Bond strength to nominated substrate materials
- Water resistance by way of hydrostatic water resistance
- Thermal performance of the insulative component.

14.2 The above test results and assessments have been assessed by BTS and found satisfactory.



Other Investigations

15.1 An opinion has been given by BEAL of the durability of The TESB and specified accessories based on test data and in-service history.

15.2 The installation of the TileEzy products was also evaluated in practical building situations assessing the following;

- Ease of installation
- Potential risks of non-performance when being installed
- Any external factors that could affect the quality of the installed product
- Ease of repair or maintenance

15.3 The Technical Literature has been examined by BEAL and found to be satisfactory.

Quality

16.1 The manufacture of the TileEzy's Shower Bases products has not been assessed by BEAL, but details regarding the quality and composition of the materials used were obtained by BEAL and found to be satisfactory.

16.2 The quality of materials, components and accessories supplied by ELIM NZ Ltd. is managed through the use of a Building Product Quality Plan.

16.3 The ELIM NZ Ltd. Building Product Quality Plan ensures continuous conformance with the quality requirements from purchase to supply of components.

16.4 ELIM NZ Ltd.'s Building Product Quality Plan is reviewed and audited at least annually by BEAL or appointed agent.

16.5 Designers are responsible for the substructure design, and building contractors are responsible for the quality of construction of the substructure or new substrate in accordance with the instructions of the substrate manufacturer and this Appraisal Certificate.

16.6 Building owners are responsible for the maintenance of the tiled over TileEzy products in accordance with the instructions of ELIM NZ Ltd. and this Appraisal Certificate.

Sources of Information

- AS/NZS 4858 Wet Area Membranes
- AS/NZS 1580.408.5 Paints and related materials
- AS/NZS 2908 Cellulose-cement materials
- Compliance Document for Clause E3, Department of Building and Housing, Second edition Feb 1998, incorporating amendments 1 to 4.
- New Zealand Building Code Handbook and Approved Documents, Building industry Authority, 1992.
- The Building Regulations 1992, up to, and including, July 2011 Amendment.
- Test data and technical literature supplied by the manufacturer in the USA.

Concluding statement

17.1 In the opinion of BEAL, the TileEzy products are fit for purpose and will comply with the NZBC to the extent specified provided that it is used, designed, installed and maintained as set out in this Appraisal Certificate.

The Appraisal Certificate is issued only to ELIM NZ Ltd., and is valid until further notification, subject to the conditions of this Appraisal.

Conditions of Appraisal

1. This appraisal Certificate :
 - a) Relates only to the TESB as described herein;
 - b) Must be read, considered and used in full, together with the current version of the Technical Literature
 - c) Does not address any legislation, regulations, codes or standards, not specifically named herein;
 - d) Is copyright of BEAL
2. The Appraisal Certificate holder continues to meet the quality requirements of the ELIM NZ Ltd. Building Product Quality Plan and has the plan audited and Appraisal certificate revalidated by BEAL on an annual basis.
3. ELIM NZ Ltd. shall notify BEAL and obtain approval of any changes of the product specification or quality assurance prior to product being marketed including any trade literature, web site info or the like.
4. BEAL makes no representation as to:
 - a) The nature of individual examples of, batches of, or individual installations of the product, including methods and workmanship;
 - 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 the Appraisal Certificate holder.
5. BEAL's verification of the building product or system complying with one or more of the above-mentioned criteria is given on the basis that the criteria used were those that were appropriate to demonstrate compliance with the NZBC at the date of this Appraisal Certificate. In the event that the criteria is withdrawn or amended at a later date, this Appraisal may no longer remain valid.
6. Any reference in this Appraisal Certificate to any other publication shall be read as a reference to the version of publication specified in this Appraisal Certificate.

Authorised Signatory



C R Prouse - Manager
BEAL Testing Services
[Updated July 2020]

