

TileEZY SHOWER BASE



SPECIFICATION

PRODUCT DESCRIPTION

The TileEzy Shower Bases and Shower Niches are ranges of construction products designed for use in showers where tiled floors and walls are specified. The range offers a reliable, waterproof, and aesthetic pleasing solution for shower installations. It's a great solution where there is a high-quality finish requirement. The main advantages are:

- Watertight solutions
- Crack free
- Light weight
- High strength
- Time-efficient installation
- Durable

Watertight: The TileEzy Shower Base and Shower Niche products are impervious to water, even without any other waterproofing membrane over the top. Therefore, it can act as a second water barrier when the top waterproofing layer is damaged accidentally.

Crack Free: The TileEzy products are manufactured from a durable polymer material incorporating some flexibility. When there is settlement occurring during the installation, or movement during its intended life, the movement between flooring and shower base can be tolerated.

Light Weight: The TileEzy Shower Base's base density is $40 \pm 4 \text{ kg/m}^3$, only ~2% mass compared to traditional cement-based shower tray base (about 2300 kg/m³).

High Strength: The TileEzy Shower Base's compression strength at 10% deformation is greater than 0.5 MPa, and it is able to withstand a wide range of unexpected forces, which are inevitable when it is handled, transported, and covered during the process of installation.

Time-efficient: The TileEzy Shower Base and

shower Niche products are one-piece pre-moulded products, which makes the installation process very quick and easy.

Durable: Made from a composite plastic containing non-organic ingredients, these products could be as durable as a typical cementitious base.

MAINTENANCE

The TileEzy Shower Base and Shower Niche when installed in accordance with the recommendations of this technical manual and the relevant NZBC can be expected to provide trouble-free service. Maintenance inspections should be carried out regularly by persons knowledgeable in waterproofing work. The tiled shower base shall be inspected annually, and particular attention should be given to the waterproofing membrane and integrity of the joints.

Other than the need to maintain the tiled surface, there are no special maintenance measures needed.

COMPLIANCE WITH BUILDING CODE

TileEzy Shower Base and Shower Niche products comply with the following clauses of the New Zealand Building Code:

- **Clause B1 – ADHESION**

The TileEzy Shower Base and Shower Niche products meets the performance requirements of New Zealand Building Code (NZBC) Clause B1.3.2, when it is installed following the manufacturer's instructions.

- **Clause B2 - DURABILITY**

The TileEzy Shower Base and Shower Niche products meets the performance requirements of



New Zealand Building Code (NZBC) Clause B2.3.1 (b), 15 years, when it is installed following the requirements and steps stated in this technical manual, where the shower base is “*moderately difficult to access or replace, and would go undetected during normal use of the building, but would be easily detected during normal maintenance*”.

- Clause E3 - INTERNAL MOISTURE

The TileEzy Shower Base installed under a waterproofing membrane contributes to the requirements of NZBC E3 relating to the resistance of water penetration, provided the integrity of the specified system is maintained.

- Clause F2 - HAZARDOUS BUILDING MATERIALS

In reference to NZBC Clause F2 regarding Hazardous Building Materials, the TileEzy Shower Base and Shower Niche products are non-hazardous.

- Clause H1 - ENERGY EFFICIENCY

The TileEzy products contribute to a building meeting its ‘building performance index’.

COMPONENTS & ACCESSORIES

- The shower bases:

TileEzy Shower Base is supplied by Elim New Zealand Ltd. Composed of high-density fair retardant polystyrene and fibreglass on the surface, which provide a durable, watertight base over which a waterproofing membrane and tiles can be applied. There is a range of sizes, include 22 standard sizes and unlimited customizes.

- Accessories: Den Braven Hybrifix or Holdfast's FixAll sealant has been approved as an adhesive between the shower base and the waste flange. Low-level solvent construction adhesive(e.g: Titebond multi-purpose, Holdfast nail power, Fuller Maxbond) or wall tile adhesive has been approved as a sealant applied under the shower base and

between the upstand of the shower base and the

bottom frame. Any Waterproof Membranes are compatible with the TESB.

DESIGN CONSIDERATION

- Floor Preparation

It is essential that the floor be free of contaminants, flat and free of protrusions to ensure good adhesion between the floor and the underside of the shower base.

- Wall Preparation

Wall framing and additional jack-studs and nogs shall be straight and true to enable the Shower Niche to be installed parallel to the surface of the wall.

- Wall connections

A butt-Joint connection is employed between the interior linings and the top of the TileEzy Shower Base upstand, using a neutral silicone, to seal the joint. Refer to diagrams and Fig 1. for details.

- Wall waterproofing

The selected liquid applied waterproofing membrane must be compatible with the TileEzy Shower Base or Shower Niche. If there is any doubt, contact ELIM New Zealand Limited.

- Waste fittings

A 80-100mm adjustable waste fitting with cover is recommended.

- Base underside adhesive

Holdfast's FixAll and Den Braven's HIBRIFIX – high quality single component joint sealants with high adhesive strength and excellent durability, supplied by Elim New Zealand Ltd.



CONSTRUCTION REQUIREMENTS

Installation of the TileEzy Shower Base and Shower Niche products must be following this Technical literature. Specific requirements of other building elements are:

- The interior linings shall have 100mm clearance from the flooring;
- The floor waste outlet can be located at the centre, or suited to a customized design.
- The flooring can be either concrete or wooden. The acceptable variation from the flat is ± 2 mm. The flooring shall be dry and free of any float and dust.
- Where a concrete floor topping has been applied, the minimal curing time shall be 28 days.
- All shower base products shall be restored out of the weather, and handled with care, due to its brittleness property.
- Elim New Zealand Ltd recommends that installation of the TileEzy shower base be undertaken by an Elim trained applicator. See website or call 09-4142968 for more details.

DURABILITY

The TESB subjected to normal conditions of environment and use, is expected to have a serviceable life of at least 20 years. Warranties based on specific projects are available from ELIM New Zealand Ltd.

SAFETY AND HEALTHY

The products contain harmless substance and made from fair retardant materials, safe to install, when installed according to the requirement and will not present a health hazard to people using the building.

INSTALLATION

Installation of the TESB shall be by personnel trained and approved by ELIM New Zealand Ltd.

Floor substrates must be dry, clean and stable before installation. Surfaces must be smooth and free from nibs, sharp edges, dust, dirt or other materials such as oil, grease or concrete formwork release agents.

New concrete must use wall tile adhesive to install. The moisture content of any new timber floor and or Fibrecement and plywood sheet shall be dry with a moisture content being no greater than that stipulated by the manufacturer, at the time of installation. Installation must strictly follow ELIM New Zealand Ltd provide the installation manual.

WARRANTY

The exact duration and terms of the available warranty may depend on many variables in a given project. Please contact Elim New Zealand Ltd for details applicable to your specific project.

(a) The product must be installed by a trained applicator from Elim, strictly following this technical manual at the time of installation, utilizing specified components or compliant products in this technical manual.

(b) The building works in which the product has been incorporated must be designed and constructed in strict compliance with all relevant provisions of the current New Zealand Building Code and Building Consent relating to the building works.

(c) The customer's sole remedy under this warranty is that Elim New Zealand Ltd will supply replacement products, rectify the affected products or pay for the cost of the replacement or rectification of the affected products.

(d) Elim New Zealand Ltd will not be liable for any losses or damages, whether direct or indirect including property damage, personal injury, consequential loss, economic loss or loss of profits, arising in contract or negligence or howsoever arising. Without limiting the foregoing Elim New



Zealand Ltd will not be liable for any claims, damages or defects arising from or in any way attributable to poor workmanship, poor design or detailing of materials that the products attached.

(e) All warranties, conditions, liabilities and obligations other than those specified in this warranty are excluded to the fullest extent permitted by law. This warranty does not exclude or modify any legal rights a customer may have under the Consumer Guarantees Act 1993. Unless otherwise specified in writing at the time of sale, Elim New Zealand Ltd assumes no liability for the product being fit for any particular purpose under the Building Act 2004, other legislation or at common law.

PRODUCT DATA

- **Fire Resistance:** Because of its high mineral content, it is virtually incombustible.
- **Thermal Expansion:** The shower base is a composite of mineral materials and resin, and capable of accommodating normal movements encountered in well-designed building structures.
- **Toxicity and odour:** the product is non-toxic and odourless.
- **Mass:** The mass of shower base varies due to a number of factors, such as the differing proportions of constituents utilised in its manufacture and the nature and quality of coarse aggregate incorporated. For practical and load calculation purposes, however, the nominal mass can be taken to be 50 kg/m³.
- **Resistance to water:** The shower base is impervious to water, and tested against AS/NZS 4201.
- **Resistance to biological attack:** The shower base is vermin-proof and rot-proof.

- **Flexural Strength:** 9.3MPa, Tested against AS/NZS 2908.2

DISCLAIMER

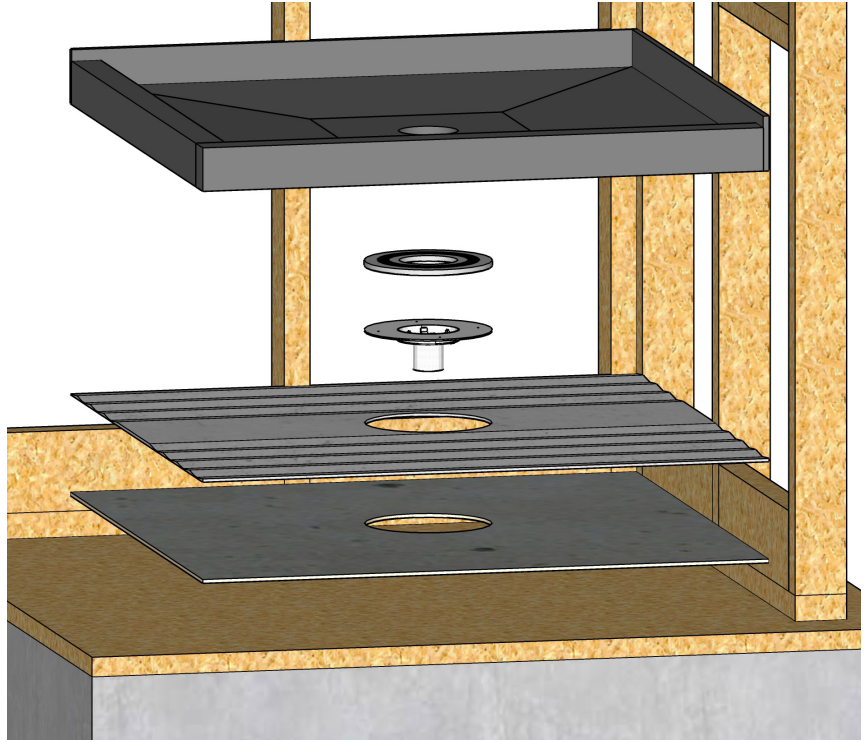
This information is intended solely as a guide and to provide general design advice concerning the use of TileEzy shower base and shower niche products in typical applications. Before using any product or system, checks should be made to ensure that the product is suitable for use in the specific application. This information does not contain the full details required for construction, nor does it constitute an express statement as to fitness for a particular purpose, professional advice is required to take into account all site specific influences.

Elim New Zealand reserves the right to alter or update information parameters and formulations at any time without prior notice.

TileEzy Shower Tray

The TileEzy Shower Bases (TESB), is a range of construction products designed for use in showers where tiled floors and walls are specified. The range offers a reliable, watertight, and aesthetic pleasing solutions for shower installations. It's a better option for tiled showers to satisfy client's watertight and aesthetical requirements.

Installation of the TESB shall be by personnel trained and approved by ELIM New Zealand Ltd. Floor substrates must be dry, clean and stable before installation. Surfaces must be smooth and free from nibs, sharp edges, dust, dirt or other materials such as oil, grease or concrete formwork release agents. New concrete must use wall tile adhesive to install. The moisture content of any new timber floor and or Fibrecement and plywood sheet shall be dry with a moisture content being no greater than that stipulated by the manufacturer, at the time of installation. Installation must strictly follow ELIM New Zealand Ltd provide the installation manual.



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<http://showerbase.co.nz>