



### **TANZ Appraised**

Product and System Appraisal

Appraisal # 12124

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## Appraised Product

- 1.1 The Atlantis Linea Quattro™ shower base, is a New Zealand designed and manufactured, preformed shower floor tray substrate. It is manufactured from a solid fibreglass core with a gelcoat top surface. The preformed shower tray is formed with an 85mm internal corner upstand and incorporates a 1:80 fall to a channel drainage outlet. The Atlantis Linea Quattro™ Shower Base is manufactured in various sizes and is available as either a level entry or a step entry tray configuration for timber or concrete substrates. The installation process requires the body of the waste fitting to be installed prior to the installation of the Atlantis Linea Quattro™ Shower Base. This must be undertaken by a qualified plumber. Refer to the Atlantis Linea Quattro™ shower base and waste fitting instructions Version 202003 (BFK-AQ-EC) for correct installation methods. Refer to the Atlantis Linea Quattro™ shower base, Essential Connection Kit Instructions for correct installation and product selection for continuing with a tiled wall installation system.

## Scope of this Appraisal

2.1 TANZ have appraised Atlantis Linea Quattro™ Shower Base as being acceptable for use in Wet Area applications that meet the requirements of E3 Internal Moisture of the NZBC. The product is for use as a preformed shower tray for use over acceptable floor substrates. The Atlantis Linea Quattro™ Shower Base has been appraised in conjunction with the following adhesives which are utilised to adhere the shower base tray to acceptable substrates as outlined in this appraisal.

- HB Fuller – Sturdi Bond Construction Adhesive
- Soudal – Gorilla Grip Construction Adhesive (low temp applications)

2.2 The Atlantis Linea Quattro™ Shower Base is not complete until a finished surface of tile or stone has been installed to the shower tray base. The following tile adhesives have been included in the scope of this appraisal and are the nominated specified tile adhesives for use over Atlantis Linea Quattro™ Shower Base. When adhering ceramic or porcelain tiles to an Atlantis Linea Quattro™ shower base, the Gelcoat surface of the base must first be sanded to achieve correct adhesion. The base must be sanded in a North, South, East, West direction. The nominated tile adhesives must then be back buttered to the shower tray. Listed below are independently tested tile adhesives that are deemed compatible with the Atlantis Linea Quattro™ shower base. Refer to the Atlantis website for further information and correct preparation and installation of the following products. When using one of the nominated tile adhesives, the approved epoxy grout and sealants from the same tile adhesive supplier must be used.

- Laticrete – Latapoxy 300 adhesive
- Laticrete – Spectra LOCK PRO
- Mapei - Kerapoxy tile adhesive
- Mapei – Kerapoxy
- Sika – Florbond 406

## Scope of Product

- 3.1 Atlantis Linea Quattro™ Shower Base has been appraised by TANZ as an Acceptable Solution for E3 Internal Moisture within the following scope:
- 3.2 Over floor substrates of concrete, plywood, compressed fibre cement sheet and tile and slate underlay fibre cement sheeting.
- 3.3 When a finished surface of ceramic or stone tile is installed to the conditions outlined in the Atlantis Essential Connection Kit instructions and the TANZ Wet Area Waterproof Membrane and Tile System Installation" methodology.
- 3.4 When the floor substrate structure has been designed and constructed to ensure that deflections in the substrate do not exceed 1/360th of the span of the building elements used to construct the substrate.
- 3.5 When the Atlantis Linea Quattro™ Shower Base is installed by accredited applicators of the product type.

## Product Limitations

- 4.1 Tile and Stone finishes are outside of the scope of this product appraisal.
- 4.2 When installed outside of the TANZ Wet Area Waterproof Membrane and Tile System Installation" methodology.
- 4.3 Areas of a wet area that are outside of the defined area of the Atlantis Linea Quattro™ Shower Base and Atlantis EasyChannel™ system.

## Building Code Compliance (NZBC)

- 4.4 It is the opinion of TANZ, that Atlantis Linea Quattro™ Shower Base, when installed in accordance with the information and conditions of this appraisal will meet the following provisions of the NZBC:
  - B2 Durability: Performance B2.3.1 (b) and B2.3.2
  - E3 Internal Moisture: Performance E3.3.2 to E3.3.6
  - F2 Hazardous Building Materials Performance F2.3.1

4.5 It is the opinion of TANZ, that the Atlantis Linea Quattro™ Shower Base when designed and installed in accordance with the information and conditions of this appraisal, will conform to the following AS/NZS standards, nominated Acceptable solution for E3 Internal Moistures of the NZBC and the Code of Practice for Internal Wet Area Membranes information as at the date of publication.

- AS- 3740: 2010 - Waterproofing of domestic wet areas
- AS/NZS 4858: 2004 – Wet-area membranes
- E3/AS2 Internal Wet-area Membrane Systems - Membranes installed in accordance with sections 1–4 of the IWAM Code of Practice (as modified by the Acceptable Solution) will comply with Building Code clauses E3.3.2 – E3.3.6.
- Internal Wet Area Membranes (IWAM) code of practice 4th edition

## Durability

6.1 The Atlantis Linea Quattro™ Shower Base, when exposed to normal conditions of the environment and subjected use, are intended to have a minimum life period of 25 years as stated by the Atlantis Bathroom Style Ltd company and be compatible with ceramic and stone tile finishes that have a serviceable life of between 15 to 25 years.

## Maintenance

7.1 A regular check of the finished surfaces must be made to ensure it remains fully adhered to the substrate. Any cracks or damage that may occur must be repaired by a professional tradesperson immediately. Regular cleaning and inspections of the installed waste outlet system is required.

7.2 Cleaners that are used as part of the maintenance and cleaning should not have a high PH or be highly caustic, it is important that the cleaners have no detrimental effect to the tile adhesive or grout. Refer to the Atlantis website Cleaning and Maintenance document for specific information regarding acceptable cleaning products for use.

## Handling and Storage

- 8.1 All materials must be stored inside in a dry, frost-free environment out of direct sunlight. Materials must be stored up off concrete floors and cannot be exposed to freezing conditions. Handling of the materials on site is the responsibility of the applicator.
- 8.2 The Atlantis Linea Quattro™ Shower Base is non-toxic. However, when preparing the Atlantis Linea Quattro™ Shower Base for preparation before tiling over, the dust must not be ingested. A suitable breathing mask must be worn.
- 8.3 When using the Atlantis Linea Quattro™ Shower Base product, care must be taken to protect health, all health and safety guides must be followed, including wearing all appropriate PPE.

## Design Information

### General

- 9.0 The Atlantis Linea Quattro™ Shower Base is for Internal use in buildings where an impervious waterproof membrane is required to the floor and wall wet areas as defined in E3/AS2 to prevent damage to building elements and adjoining structures.
- 9.1 Sections 1-4 of the Internal Wet Area Membranes (IWAM) code of practice must be utilised in the design of internal wet areas that utilise the Atlantis Linea Quattro™ Shower Base product.
- 9.2 The “TANZ Wet Area Waterproof Membrane and Tile System Installation” design information must be utilised in the design of internal wet areas that utilise the Atlantis Linea Quattro™ Shower Base product.

9.3 Products that are not nominated in this document are outside the scope of this appraisal. No substitutions to any element of this appraisal are permitted.

9.4 The design must ensure that the shower mixer and tap penetrations are sealed correctly. Refer to:

- E3/AS2 4.3.5 see figure 9 page 56
- E3/AS2 4.4.6
- IWAM code of practice 4th edition
- TANZ Wet Area Waterproof Membrane and Tile System Installation Design Methodology
- Aquatite Wetwall Caddy product and installation information and details. Acrylic lined application
- Atlantis Linea Quattro™ Shower Base installation information version 202003 (BFK-AQ-EC) for base and waste fitting instructions

9.5 Movement and control joints may be required to satisfy the design requirements of a projects size and shape and the stone or tile finished surface.

9.6 The installed Atlantis Linea Quattro™ Shower Base product must be protected prior to and during installation of a tiled finished surface.

9.7 Timber framed systems must comply with:

- NZS 3604.

9.8 When a specific engineered design (SED) has been utilised, the framing elements must be at least the equivalent stiffness to the framing provisions, outlined in:

- NZS 3604 or comply with the serviceability scope of
- AS/NZS 1170.

9.9 In all substrates uses, structural framing must be provided so that the maximum span of the substrate meets all requirements of the substrate manufacturers technical information.

9.10 All sheet edges of timber substrate must be fully supported, unless stated otherwise in the manufacturers technical and installation information and the provided test data to support a claim is available to view and complies to an appropriate standard or verification method.

9.11 The timber framed systems that support the substrate must be constructed to prevent deflection in the substrate from exceeding 1/360th of the span.

9.12 Where NZS 3604 has been utilised, the allowable joist spans that are nominated in Table 7.1 shall be reduced by 20%

## Substrates

### Concrete and Masonry

10.11 All concrete and masonry substrates must be to specific engineering design (SED) meeting the requirements of the NZBC and the following NZS requirements:

- NZS 3101 Concrete Structures Standard
- NZS 3604 must meet concrete slab on ground requirements (or)
- NZS 4229 Concrete masonry buildings not requiring specific engineering design
- NZS 4230 Design of reinforced concrete masonry structures

### Plywood

10.12 Plywood must be a minimum of 17mm thick and comply with

- AS/NZS 2269 Plywood-structural

10.13 CD grade structural with the sanded C face installed upwards.

10.14 Treated H3 CCA treated.

10.15 LOSP treated plywood must not be used.

10.16 Plywood substrates must be supported with nogs/dwangs or framing with a maximum span of 400mm in each direction.

10.17 Fixed with 10g x 50mm stainless steel countersunk head screws, fixed at 150mm centres along the sheet edges and 200mm centres through the body of the sheet.

## Fibre Cement Compressed Sheet and Fibre Cement Sheet Tile and Slate Underlay

- 10.18 All fibre cement sheet products must be manufactured to the requirements of:
- AS/NZS 2908.2 Cellulose-Cement Products-Part 2: Flat sheets type B cat 3+
- 10.19 Must be specified by the manufacturer as being fit for purpose for wet area membrane substrates.
- 10.20 Installation must be carried out in accordance with the supplied manufacturers installation and product technical information and all test data confirming suitability for the intended use of the product.
- 10.21 Membrane installation must not proceed where the substrate surface temperature is below 10<sup>0</sup> C or above 35<sup>0</sup>C.

### Particle Board

- 10.22 Particle board must not be used as a new substrate in any wet area refer to:
- IWAM code of practice page 41.
- 10.23 For existing particle board substrates refer to:
- E3/AS2 4.1.3
  - Page 41 of the IWAM code of practice 4th edition



## Internal Moisture

11.1 The means of demonstrating compliance to NZBC clause E3 Internal Moisture for this appraisal is given as:

- E3/AS2 Internal Wet-area Membrane Systems - Membranes installed in accordance with sections 1–4 of the IWAM Code of Practice (as modified by the Acceptable solution for E3 Internal Moisture) will comply with Building Code clauses:
  - NZBC – Internal Moisture - clauses E3.3.2 – E3.3.6.
  - AS- 3740: 2010 - Waterproofing of domestic wet areas
  - AS/NZS 4858: 2004 – Wet-area membranes
  - Internal Wet Area Membranes (IWAM) code of practice 4th edition
  - TANZ Wet Area Waterproof Membrane and Tile System Installation Design Methodology

11.2 When installed to the provisions outlined in the Atlantis Linea Quattro™ Shower Base installation information version 202003 (BFK-AQ-EC) base and waste fitting instructions and to the requirements of this appraisal, Atlantis Linea Quattro™ Shower Base will prevent the passage of moisture from penetrating behind floor and wall linings or entering concealed spaces.

11.3 All surfaces of the membrane must have a finished surface of ceramic or stone tile. However, the shower tray surface can be left as a prefinished white acrylic surface.

11.4 For level entry, wet area designed showers and bathrooms, the fall must extend out a minimum of 1500mm from the position of the shower rose outlet.

11.5 There must be positive fall directed towards the drainage outlet.

11.6 All penetrations must be sealed by the requirements set out in E3/AS2

11.6 There must be positive fall directed towards the drainage outlet.

11.7 Where impervious wall finishes are used such as an acrylic liner, they must overlap the waterproof membrane by a minimum of 50mm.

## General Installation Information

### Skill Level Requirement

- 12.0 The installation of the framing and substrate must be completed by, or under the supervision of a Licenced Building Practitioner (LBP) with the relevant Licence class and in accordance with information contained inside this appraisal and the manufacturers supplied technical information.
- 12.1 The installation of the Atlantis Linea Quattro™ Aquaplane Easy Clean Waste must be performed by a licensed plumber for the waste outlet connection. The products components can only be installed by a person who has a good knowledge of the product technical information and can demonstrate good waterproofing practices. The installation of a finished tile or stone surface can only be installed by an accredited applicator of the selected, approved tile adhesive and grout system. All components of a tile adhesive and grout sealant system must be supplied from the same manufacturer and be approved by Atlantis Bathroom Style Ltd.

## Substrate Preparation

### General

- 13.1 All installed substrate types must be dry, free of dust/dirt and any grease/oils and detritus.
- 13.2 Are installed to the requirements of this appraisal and to the manufacturers supplied information.
- 13.3 Substrate surfaces must be even in plane and be free from nibs and sharp edges and concrete formwork release agents.
- 13.4 Wall substrates must be flat and true over a 4.0m straight edge placed in any direction of the wall area.
- 13.5 The relative humidity of the concrete substrates must be 75% or less before the application of Atlantis Linea Quattro™ Shower Base tray.

- 13.6 All voids, cracks, holes, rough areas must be filled with an appropriate type of material that is compatible with the installed substrate type. Refer to Atlantis Bathroom Style Ltd for further information.
- 13.7 All floor drainage and wall shower mixer and tap penetrations have been prepared and installed correctly to meet the requirements of E3/AS2 – clauses 4.3.3 and 4.3.5.
- 13.8 All falls meet the requirements as set out in this appraisal.
- 13.9 All drainage outlets are installed correctly and have positive fall directed towards them.

## Basis of the Appraisal

16.1 The following information supplied by Atlantis Bathroom Style Ltd has been reviewed by TANZ and forms the basis of this appraisal for the Atlantis Linea Quattro™ Shower Base product.

16.2 The preceding information has been utilised by TANZ to determine compliance to the NZBC and the relevant Acceptable Solutions of E3 Internal Moisture as outlined in this appraisal. See clause 12.1

16.3 A review of Atlantis Linea Quattro™ Shower Base technical information, installation methods and scope of use, has been undertaken by TANZ and found to be satisfactory to comply with

- AS 3740: 2010 Waterproofing of domestic wet areas
- E3/AS2
- B2 Durability

16.4 It is the opinion of TANZ, that when the Atlantis Linea Quattro™ Shower Base is used, designed, installed, and is maintained to the extent of this appraisal information, it is deemed to be fit for purpose as an Acceptable Solution for E3 Internal Moisture of the NZBC for use in an under-tile waterproof membrane system.

## Limitations of the Appraisal

The above appraisal is to be read in conjunction with the Atlantis Linea Quattro™ base and waste fitting instructions Version 202003 (BFK-AQ-EC)

The products described in the appraisal are limited to the use for Internal Waterproofing and wet area application in accordance with E3 and B2 of the NZBC

Atlantis Linea Quattro™ Shower Base is deemed fit for purpose as waterproof membrane system for wet area use in the New Zealand construction industry and all substrates must meet the relevant NZBC requirements to perform as an acceptable waterproofing barrier.

All information presented to TANZ to produce the following document has been provided by Atlantis Bathroom Style Ltd and is relied upon as accurate.

TANZ has provided the above appraisal in accordance with ISO9001 requirements for an appraisal of product/system.

The performance of the products listed in this appraisal is reliant on the product performing in the same way or like manner as the tested product samples and the products being installed strictly as per the required installation process.

Atlantis Bathroom Style Ltd warrants that all products used within the “system” will perform as required for the specified time frame as per the NZBC when installed as per Atlantis Linea Quattro™ Shower Base TDS and installation requirements.

TANZ offers no guarantee or warranty within this appraisal on behalf of the manufacturer, supplier, installer, or third party of the product/products or system.

TANZ does not act as an agent for the Atlantis Bathroom Style Ltd company.

This appraisal must be read in its entirety, in conjunction with Atlantis Linea Quattro™ Shower Base TDS and installation information and must not be partly duplicated and used in any other documentation.

Atlantis Bathroom Style Ltd agrees to the TANZ Terms and conditions for appraisal responsibilities.