

SEALING OF PENETRATIONS IN WET AREA LININGS

Generic Scope

Penetrations for shower mixers, taps, and associated plumbing fittings and the like shall be waterproofed by sealing with proprietary flange systems in a manner that allows access to enable repairs and replacement of ceramic disks, pipe fittings and washers without damaging the seal or finished surfaces. Building elements must be constructed in a way that makes due allowance for the consequences of failure.

1. General

- 1.1** This section relates to the Aquatite™ Wetwall Caddy™ a two part moulded ABS (Cup) and Polycarbonate (Flange) plastic device being 55mm in depth. Designed to create a seal in a wet area lining and prevent the passage of moisture into a wall cavity by encompassing the body and fittings of a shower mixer, tap and related plumbing fixtures and diverting moisture back out the front of the device and down the face of a wall lining, alerting the building owner to a water ingress or faulty plumbing issue while preventing any water damage from occurring.

2. Documents

- 2.1** Documents referred to in this section are as follows.
- | | |
|---------------------------------------|-------------------------------|
| NZBC B2 DURABILITY: | Performance B2.3.2 |
| NZBC E3 INTERNAL MOISTURE: | Objective E3.1 |
| | Functional Requirement E3.2 |
| | Performance E3.3.5 and E3.3.6 |
| NZBC F2 HAZARDOUS BUILDING MATERIALS: | Performance F2.3.1 |

AS/NZS: 4858 Wet Area Membranes	AS/3740:
Waterproofing of Wet areas in residential buildings.	
BCA 3.8.1 WET AREAS.	
E2/VM1	
AS/NZS 4284: 1995 Testing of Building Facades	
E3/VM1: No specific methods have been adopted for verifying compliance with performance of the NZBC E3	

- 2.2** Manufacturers documents referred to in this section are as follows.

Aquatite™ Wetwall Caddy™ Tile lined Installation Instructions.
Acrylic lined Installation instructions.
15-year Material Warranty.
15-year Product Warranty.
Wetwall Caddy™ Producer Statement
WMAI (NZ) Internal Wet Area Membranes
Code of Practice published Sept 2015
Copies of the literature are available from Aquatite™ Enterprises Ltd.

Web: www.wetwallcaddy.nz
Email chris@aquatite.com
Phone: 0508 427 828

3. Warranties

- 3.1** The Aquatite™ Enterprises Ltd warranty provides that when installed correctly to the manufacturer's installation instructions, the Aquatite™ Wetwall Caddy™ will provide a seal between the wet area lining and the wall cavity and will prevent moisture from entering the wall cavity via the penetration in the wall lining that occurs when installing shower mixers, taps and related plumbing fittings for a period of 15 years from the date of installation.
- 3.2** Refer to the Documents section for the required form which needs to be fully completed, signed and returned within three months of completion of the pre-lining inspection or tanking inspection to Aquatite Enterprises Ltd, PO box 48086, Silverstream, Upper Hutt 5142 New Zealand.

4. Requirements

- 4.1** No substitutions: Substitutions are not permitted to any Aquatite™ Wetwall Caddy™ products specified.
- 4.2** Related trades: Installation of the Aquatite™ Wetwall Caddy™ must be completed by tradespersons with a good understanding of plumbing and must be in accordance with the instructions given within the technical literature.
- 4.3** The function, purpose and all relevant information regarding the Installation of the Aquatite™ Wetwall Caddy™ must be made available to the Builder, Tiler, Water proofer and Shower Unit/Liner installer and they must have an understanding of their requirements needed to complete the installation of the products to the manufacturer's instructions.
- 4.4** Maintenance: No maintenance can be carried out on the Aquatite™ Wetwall Caddy™ once the product has been installed as they are inaccessible after the lining has been installed. However the faceplate of a shower mixer can be removed to gain access into the body and fittings for servicing or replacement of a shower mixer unit. It must be noted that it is a requirement of all shower mixers for this to be achieved for warranty purposes of the tapware product.
- 4.5** Producer Statement: Provide the producer statement with details of the installer to the Building Consent Authority or Territorial Authority for final information requirements to complete the producer statement and to activate the 15-year product warranty.
- 4.6** Health and Safety: There are no particular health and safety requirements to consider when using the Aquatite™ Wetwall Caddy™
- 4.7** Handling and Storage: The Aquatite™ Wetwall Caddy™ components must be stored in a dry place indoors away from direct sunlight and heat. Care must be taken to ensure that components are not damaged before or during installation.

5. Performance

- 5.1** Provided that the Aquatite™ Wetwall Caddy™ is not exposed to ultra violet light and when installed correctly to the manufacturers installation instructions they are expected to have a serviceable life compatible with that of the plumbing installation and the wall lining.
- 5.2** The Installer must except responsibility for the correct installation of the Aquatite™ Wetwall Caddy™
- 5.3** Inspections: The Manufacturers technical information may be referred to during the inspection of the Aquatite™ Wetwall Caddy™ installations by Building Consent Authorities and Territorial Authorities.
- 5.4** The relevant BCA or TA must complete the required information on the producer statement to activate the 15-year product warranty.
- 5.5** The required inspection process for the Aquatite™ Wetwall Caddy™ is at a pre-lining or tanking inspection stage and the products can be viewed in situ to complete this process.
- 5.6** Contact Aquatite™ Enterprises Ltd to obtain photographic images of the installation of the product in a Tiled lined example or an acrylic lined example if required.
- 5.7** Tests: The Aquatite™ Wetwall Caddy™ has been tested and appraised by Branz as an Alternative Solution of the NZBC E3 Internal Moisture. (525 2008) This appraisal has been now been withdrawn by Aquatite Enterprises Ltd in anticipation of the development of an appropriate Verification Method (VM) for E3 Internal Moisture being developed at a later stage.
- 5.8** Water tightness testing was conducted using relevant components of the method of E2/VM1 drawn from AS/NZS 4284
- 5.9** E3/VM1 testing is not available as no specific methods have been adopted or developed for verifying compliance with the performance of the NZBC E3.

6. Product

- 6.1** The Aquatite™ Wetwall Caddy™ will perform the following functions when installed to the manufacturer's installation instructions.
- 6.2** Prevent the direct entry of moisture into the construction cavity from water ingress from the faceplate of a shower mixer.
- 6.3** Prevent moisture that leaks from the plumbing connections that are encompassed by the Wetwall Caddy™ from entering the construction cavity.
- 6.4** Create a seal in the wet area lining for the penetration that occurs when installing shower mixers, taps and related plumbing fittings.
- 6.5** Divert moisture that enters the Wetwall Caddy™ back out the front of the required access hole and down the face of the wall.
- 6.6** Allows for an access hole to be constructed for the purpose of meeting tapware manufacturer's warranty requirements.
- 6.7** Alert a building owner to the fact that they have a moisture leak while preventing any water damage from occurring.

6.8 Supply access back into the shower mixer for servicing or replacement without disrupting or damaging existing seals or finished surfaces.

6.9 Designed to meet and exceed the requirements of:
NZBC B2 DURABILITY: Performance B2.3.2
NZBC E3 INTERNAL MOISTURE: Objective E3.1
Functional Requirement E3.2
Performance E3.3.5 and E3.3.6
NZBC F2 HAZARDOUS BUILDING MATERIALS:
Performance F2.3.1
AS 3740: Waterproofing of Wet areas in residential buildings.
BCA 3.8.1 WET AREA

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AND YOUR CLIENTS
WETWALL CADDY™**