



BRANZ Appraised

Appraisal No.525 [2006]

BRANZ Appraisals

Technical Assessments of products
for building and construction

**BRANZ
APPRAISAL
No. 525 (2006)**

Amended 19 February 2008.

**AQUATITE™
WETWALL CADDY™ &
CAVITY CUP™**

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Product

1.1 The AQUATITE™ Wetwall Caddy™ and AQUATITE™ Cavity Cup™ are moulded ABS plastic enclosures designed to collect water from potential leaks inside walls from water plumbing fittings and discharge the water through the face plate and outside the wall cavity alerting the building owner to the faulty plumbing.



Scope

2.1 AQUATITE™ Wetwall Caddy™ and AQUATITE™ Cavity Cup™ have been appraised for use as cavity water egression components installed in buildings within a framed cavity.

Building Regulations

New Zealand Building Code (NZBC)

3.1 In the opinion of BRANZ, the AQUATITE™ Wetwall Caddy™ and AQUATITE™ Cavity Cup™ 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 B2.3.2. The AQUATITE™ Wetwall Caddy™ and AQUATITE™ Cavity Cup™ meet this requirement. See Paragraph 8.1.

Clause E2 EXTERNAL MOISTURE: Performance E2.3.2. The AQUATITE™ Wetwall Caddy™ and AQUATITE™ Cavity Cup™ will contribute to meeting this requirement.

Clause E3 INTERNAL MOISTURE: Performance E3.3.6. The AQUATITE™ Wetwall Caddy™ and AQUATITE™ Cavity Cup™ will contribute to meeting this requirement.

Clause F2 HAZARDOUS BUILDING MATERIALS: Performance F2.3.1. The AQUATITE™ Wetwall Caddy™ and AQUATITE™ Cavity Cup™ meet this requirement and will not present a health hazard to people.

3.2 This is an Appraisal of an **Alternative Solution** in terms of the New Zealand Building Code Compliance.

Technical Specification

4.1 Components supplied by Aquatite Enterprises Ltd are:

- Cavity Components - AQUATITE™ Wetwall Caddy™ consist of two parts: a moulded ABS plastic cup, white in colour and a clear polycarbonate faceplate.
- AQUATITE™ Cavity Cup™ is a one-piece moulded ABS plastic cup and flange, white in colour.
- Sealant - Holdfast® Fix All® 220LM MS Polymer waterproof, elastic, UV resistant joint sealant for interior and exterior applications.

Handling and Storage

5.1 The AQUATITE™ Wetwall Caddy™ and AQUATITE™ Cavity Cup™ 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.

Technical Literature

6.1 Refer to the Appraisals listing on the BRANZ Website for details of the current Technical Literature for the AQUATITE™ Wetwall Caddy™ and AQUATITE™ Cavity Cup™. The Technical Literature must be read in conjunction with this Appraisal. All aspects of design, use, installation and maintenance contained within the scope of this Appraisal and the Technical Literature must be followed.

Design Information

General

7.1 The AQUATITE™ Wetwall Caddy™ and AQUATITE™ Cavity Cup™ are designed to seal the penetration into a wall cavity created by shower mixers, taps and related plumbing fixtures. The AQUATITE™ Wetwall Caddy™ and AQUATITE™ Cavity Cup™ catch and retain water that may leak from the plumbing fittings such as water control valves, shower mixers and the like. Leakage in small quantities will evaporate away within the wall space, but in larger quantities, the design of the caddy directs water back out to the visible outside face of the wall lining or wall cladding, where it can drain away and be noticed by the user, which indicates that there is a leakage in the plumbing fitting. The AQUATITE™ components are designed to be installed pre lining or wall cladding and encompass a range of water control systems.

7.2 AQUATITE™ Wetwall Caddy™ and AQUATITE™ Cavity Cup™ components are able to perform the following functions:

- Prevent the direct entry of water into the construction cavity from leakage around the plumbing penetration.
- Catch water that leaks from the plumbing connections within the caddy.
- Catch water that leaks through the exterior face plate around the plumbing fitting.
- Direct water to the outside of the wall lining, when the level of water contained within the caddy rises to the level of the penetration through the face plate.

7.3 AQUATITE™ Wetwall Caddy™ must be provided with a direct water egression path from the faceplate opening. Shower faceplates must either be notched or a tile join be present directly beneath the AQUATITE™ Wetwall Caddy™ or AQUATITE™ Cavity Cup™ faceplate opening.

7.4 The AQUATITE™ Wetwall Caddy™ has a depth of 55 mm and the AQUATITE™ Cavity Cup™ has a depth of 45 mm.

Durability

Serviceable Life

8.1 Provided the AQUATITE™ Wetwall Caddy™ and AQUATITE™ Cavity Cup™ are not exposed to ultra-violet light when installed according to the manufacturer's instructions, they are expected to have a serviceable life compatible with that of the plumbing installation and the wall lining.

Maintenance

9.1 No maintenance can be carried out on the AQUATITE™ Wetwall Caddy™ or AQUATITE™ Cavity Cup™ components as they are inaccessible once the lining has been installed over the faceplate. Where the faceplate can be readily removed, in-situ inspection can be carried out on the plumbing fittings. New sealant must be applied in this case as per the installation instructions.

Installation Information

Installation Skill Level Requirement

10.1 Installation of the AQUATITE™ Wetwall Caddy™ and the AQUATITE™ Cavity Cup™ must be completed by tradespersons with a good understanding of plumbing, and must be in accordance with instructions given within the Technical Literature and this Appraisal.

General

11.1 The cup of the AQUATITE™ Wetwall Caddy™ or AQUATITE™ Cavity Cup™ is fixed to the framing where the plumbing fitting would be installed.

11.2 The plumbing fittings are installed into the cup of the AQUATITE™ Wetwall Caddy™ or AQUATITE™ Cavity Cup™ and all the pipe work is then installed and connected.

11.3 The wallboard is cut to size to allow the AQUATITE™ Wetwall Caddy™ flange to be installed.

11.4 The flange of the AQUATITE™ Cavity Cup™ must be flashed around the building wrap and detail tape applied as shown in the Installation Instructions.

11.5 A 5 mm bead of Holdfast Fixall is applied to the flange channel. The flange is then installed by pushing the flange firmly onto the cup. Care must be taken to ensure that the sealant makes contact with both the cup and the flange and that the flange front surface is level with the lining or wall cladding.

11.6 Just prior to installation of the wall lining, a bead of Holdfast® Fix All® 220LM MS Polymer Sealant is to be applied to the flange within 10 mm of the cut opening. The lining may then be pushed onto the bead creating a seal between the AQUATITE™ flange and the wall lining.

11.7 Care must be taken to allow a water egression path from the AQUATITE™ Wetwall Caddy™ or AQUATITE™ Cavity Cup™. Failure to provide this path will result in the AQUATITE™ Wetwall Caddy™ or AQUATITE™ Cavity Cup™ being unable to provide the owner of visible signs of the plumbing failure.

Inspections

12.1 The manufacturer's Technical Literature may be referred to during the inspection of the AQUATITE™ Wetwall Caddy™ and AQUATITE™ Cavity Cup™ installations by building consent authorities and territorial authorities.

Health and Safety

13.1 There are no particular health and safety requirements to consider when using the AQUATITE™ Wetwall Caddy™ or AQUATITE™ Cavity Cup™.

Basis of Appraisal

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

Tests

14.1 Watertightness testing conducted using relevant components of the method of E2/VM1 drawn from AS/NZS 4284.

Other Investigations

15.1 An assessment was made of the durability of the AQUATITE™ Wetwall Caddy™ and the AQUATITE™ Cavity Cup™ by BRANZ technical experts.

15.2 An assessment of the watertightness of AQUATITE™ Wetwall Caddy™ and the AQUATITE™ Cavity Cup™ was made by BRANZ technical experts.

15.3 Site inspections were carried out by BRANZ to examine the practicability of installation.

15.4 The Technical Literature has been examined by BRANZ and found to be satisfactory.

Quality

16.1 The manufacture of the AQUATITE™ Wetwall Caddy™ and the AQUATITE™ Cavity Cup™ has been examined by BRANZ and found to be satisfactory.

16.3 The quality of supply to the market is the responsibility of Aquatite Enterprises Ltd.

16.4 The quality of installation on site is the responsibility of the contractor.

Sources of Information

- AS/NZS 4284: 1995 Testing of building facades.
- Compliance Document for New Zealand Building Code External Moisture Clause E2, Department of Building and Housing, Third Edition July 2005.
- New Zealand Building Code Handbook Department of Building and Housing, Third Edition May 2007.
- The Building Regulations 1992, up to, and including June 2007 Amendment.



In the opinion of BRANZ, Aquatite™ Wetwall Caddy™ and the Aquatite™ Cavity Cup™ is fit for purpose and will comply with the Building Code to the extent specified in this Certificate provided it is used, designed, installed and maintained as set out in this Certificate.

The Appraisal Certificate is issued only to the Certificate Holder, Aquatite Enterprises Ltd, and is valid until further notice, subject to the Conditions of Certification.

Conditions of Certification

1. This Certificate:
 - 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. The Certificate Holder:
 - 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.
3. The product and the manufacture are maintained at or above the standards, levels and quality assessed and found satisfactory by BRANZ.
4. BRANZ 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 Certificate Holder.
5. Any reference in this Certificate to any other publication shall be read as a reference to the version of the publication specified in this Certificate.

For BRANZ

P Robertson
Chief Executive

Amendment No. 1, dated 19 February 2008

The Appraisal has been updated to amend the Building Regulations, by adding building code performance requirements.

Date of issue: 11 August 2006