



# PRODUCT CERTIFICATE

## HUME CEMBOARD



### PRIMAaqua, PRIMAlux, PRIMACTU, PRIMAliner, PRIMAalpha Groove

CERTIFICATE NO: CM20210

Date of issue: 27/03/2020

Review Date: 26/03/2023

#### 1 CERTIFICATE HOLDER DETAILS

HUME CEMBOARD INDUSTRIES Sdn. Bhd. –  
CENTRAL  
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PHONE: +60 3 7625 9999  
EMAIL: [sales@humecemboard.com.my](mailto:sales@humecemboard.com.my)  
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#### 2 PRODUCT CERTIFICATION BODY



SAI Global Certification Services Pty Limited  
(ACN 108 716 669) Trading as "SAI Global"  
JAS-ANZ Accreditation No. Z1440295AS  
680 George St, Sydney, NSW 2000  
[www.saiglobal.com](http://www.saiglobal.com)

#### KEY INFORMATION

#### 3 SUMMARY OF DESCRIPTION OF BUILDING METHOD OR PRODUCT

**PRIMAaqua** – A flat autoclaved cellulose fibre reinforced cement sheet with smooth sanded and sealed surface and square rebate edges on both sides of its length for a flush joint.  
**PRIMAlux** – A flat autoclaved cellulose fibre reinforced cement sheet sanded with arrised edges for butt or PVC joints.  
**PRIMACTU** – A flat autoclaved cellulose fibre reinforced cement sheet with a pre-marked nailing pattern.  
**PRIMAliner** – A flat autoclaved cellulose fibre cement sheet with square rebated edges on both sides of its length for flush jointed internal walls.  
**PRIMAalpha Groove** – A flat autoclaved cellulose fibre cement sheet with decorative V-shaped grooves carved into the sanded surface.  
*Continuation of description can be found in item 9. Supporting Information about Description of Building Product or Method.  
Matters that should be taken into account in the use or application of the building method or product can be found in item 6. Conditions and Limitations of Use*

#### 4 SUMMARY OF INTENDED USE OF BUILDING METHOD OR PRODUCT

**PRIMAaqua** – An internal wall and ceiling lining or as a substrate for tiles in wet areas.  
**PRIMAlux** – An internal wall and ceiling lining where flushed joints are not required.  
**PRIMACTU** – A substrate for ceramic tiles in wet and dry areas.  
**PRIMAliner** – An internal wall lining where a seamless joint is required or as a substrate for ceramic or marble tiles in wet areas.  
**PRIMAalpha Groove** – An internal wall and ceiling lining.  
*Continuation of intended use can be found in item 10. Supporting Information about Intended use of Building Product or Method.*

#### 5 BUILDING CODE PROVISIONS – New Zealand Building Code (NZBC) as at JAN 2017

For <b>PRIMAaqua, PRIMAlux, PRIMAliner and PRIMAalpha Groove</b>	For <b>PRIMACTU</b>
<b>Clause B1 Structure</b> — B1.3.1; B1.3.2; B1.3.3(a, j); B1.3.4(a, b, c, d)	<b>Clause B1 Structure</b> — B1.3.1; B1.3.3(a); B1.3.4(a, b, c, d)
<b>Clause B2 Durability</b> — B2.3.1(b) when used as a substrate for tiles; B2.3.1(c); B2.3.2	<b>Clause B2 Durability</b> — B2.3.1(b) when used as a substrate for tiles; B2.3.2
<b>Clause C3 Fire affecting areas beyond the fire source</b> — C3.4(a)	<b>Clause E3 Internal Moisture</b> – E3.3.3, E3.3.5, E3.3.6 (contributes to)
<b>Clause E3 Internal moisture</b> — E3.3.4; E3.3.5; E3.3.6	<b>Clause F2 Hazardous Building materials</b> — F2.3.1
<b>Clause F2 Hazardous Building materials</b> — F2.3.1	

*If designed, used, installed & maintained in accordance with the scope of this Certificate, the above-mentioned product will meet the following provisions of the NZBC.  
How the building method or product complies or contributes can be found in item 12. Basis for Certification.  
Any qualifications on the extent of that compliance can be found in item 6. Conditions and limitations of use.*



The certificate holder must maintain compliance with the conditions set out in section 15 of the Building (Product Certification) Regulations 2008. This certificate is issued by SAI Global, an independent certification body accredited by the product certification accreditation body appointed by the Chief Executive of Ministry Business, Innovation and Employment (MBIE) under the Building Act 2004. MBIE does not in any way warrant, guarantee or represent that the building method or product, the subject of this certificate conforms with the New Zealand Building Code, nor accept any liability arising out of the use of the building method or product. MBIE disclaims to the extent permitted by law, all liability (including negligence) for claims of losses, expenses, damages, and costs arising as a result of the use of the building method(s) or product(s) referred to in this certificate. This certificate may only be reproduced in its entirety. It is advised to check that this certificate is currently valid and not withdrawn or suspended by referring to the Register of Product Certificates on the Building Performance website <http://www.building.govt.nz>. Information regarding SAI Global's complaints process can be found at the following link: [Complaints Process](#).



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### PRIMAAqua, PRIMALux, PRIMACTU, PRIMAliner, PRIMAalpha Groove

#### 6 CONDITIONS AND LIMITATIONS OF USE

1. **PRIMAAqua, PRIMALux, PRIMACTU, PRIMAliner** and **PRIMAalpha Groove** must be installed in accordance with the manufacturer's installation instructions in the relevant Prima Technical Manuals referenced below.
2. Timber framing must comply with NZS 3604 or be specifically designed in accordance with NZS3603 and AS/NZS1170.
3. Steel framing must be in accordance with NASH Standard Part 2: May 2019 Light Steel Framed Buildings or be specifically designed in accordance with NZS3404 and AS/NZS 1170

#### Reference Documents:

1. PRIMA International Internal Lining Technical Manual V2. (for PRIMAAqua, PRIMALux, and PRIMACTU)
2. PRIMAliner International brochure V4 1804 (for PRIMAliner)
3. PRIMAalpha Groove Technical Manual International V1 2019 (for PRIMAalpha Groove)

#### 7 HEALTH AND SAFETY INFORMATION

Samples of Hume Cemboard fibre cement panels were tested to AS 4964 – Method for the qualitative identification of asbestos in bulk samples and results of the analysis confirmed no asbestos was detected.

#### 8 SIGNATURES

Name and Signature of the Product Certification Body's (PCB) authorised representative and, where different, the person assigned by the PCB to make the certification decision

**Heather Mahon**  
Global Head of Technical Services  
SAI Global Assurance



The certificate holder must maintain compliance with the conditions set out in section 15 of the Building (Product Certification) Regulations 2008.

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Page 2 of 9

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CERTIFICATE NO: CM20210

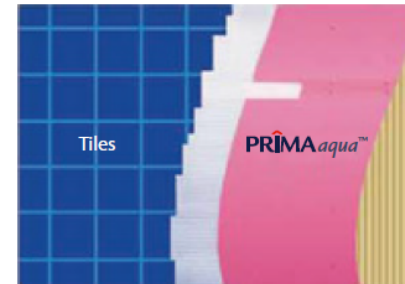
#### SCHEDULE: INFORMATION THAT SUPPORTS KEY INFORMATION

#### 9 SUPPORTING INFORMATION ABOUT DESCRIPTION

**PRIMAaqua** – A flat autoclaved cellulose fibre cement sheet with smooth sanded and sealed surface and square rebated edges on both sides of its length for a flush joint. The basic composition is Portland cement, cellulose fibre, ground sand and water. Available in 6.0mm and 9.0mm thickness. A variety of standard lengths and widths are available to suit specific application. The density at Equilibrium Moisture Content (EMC) of 7% is 1390kg/m<sup>3</sup>. Flexural strength at EMC:

- Parallel – 10.5 MPa
- Transverse – 15.5 MPa
- Average – 13.0 MPa


PRIMAaqua™ Wall and Ceiling Linings (Flush Finish Board)				
Appearance	Smooth sanded surface. Square Rebate at 2 long edges.			
Mass at EMC	<ul style="list-style-type: none"> <li>• 6.0mm sheets- 8.5kg/m<sup>2</sup></li> <li>• 9.0mm sheets- 12.5kg/m<sup>2</sup></li> </ul>			
Density at EMC	• Density at EMC is 1390kg/m <sup>3</sup>			
Length (mm)	Width (mm)			
	900	1200	1350	
	6.0	6.0	9.0	6.0
1800		✓		
2400	✓	✓	✓	✓
2700		✓	✓	
3000	✓	✓	✓	✓
3600	✓	✓		✓
4200		✓		✓



**PRIMAlux** – An autoclaved cellulose fibre reinforced cement sheet sanded with arrised edges for butt or PVC joints. Available in 4.5mm and 6.0mm thickness. The approximate masses at Equilibrium Moisture Content (EMC) of 7% at a temperature of 27°C and 65% to 95% RH are:


- 4.5mm sheet – 6.5kg/m<sup>2</sup>
- 6.0mm sheet – 8.5kg/m<sup>2</sup>
- Density at EMC is 1390kg/m<sup>3</sup>

PRIMAlux™ Wall and Ceiling Linings		
Appearance	Smooth sanded surface. Arrised edge on all 4 sides.	
Mass at EMC	<ul style="list-style-type: none"> <li>• 4.5mm sheets- 6.5kg/m<sup>2</sup></li> <li>• 6.0mm sheets- 8.5kg/m<sup>2</sup></li> </ul>	
Density at EMC	• Density at EMC is 1390kg/m <sup>3</sup>	
Length (mm)	Width (mm)	
	900	1200
	6.0	6.0
1800	✓	✓
2400	✓	✓
3000	✓	✓



**PRIMACTU** – An autoclaved 6.0mm thick flat cellulose fibre reinforced cement sheet with pre-marked nailing pattern.

PRIMACTU™	
Appearance	Smooth surface with pre-marked. fixing positions, square edge.
Thickness	6.0mm
Width	900mm, 1200mm
Length	1800mm
Mass at EMC	8.5kg/m <sup>2</sup>



For more information about standard sizes and product physical and mechanical properties, and installation instructions refer to PRIMA International Internal Lining Technical Manual V2. (for **PRIMAaqua**, **PRIMAlux**, and **PRIMACTU**).

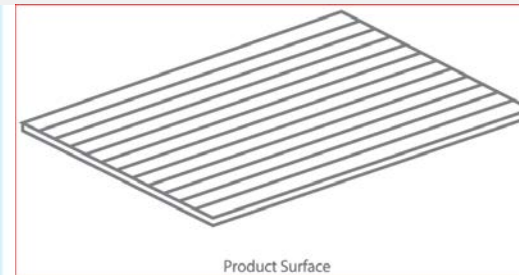
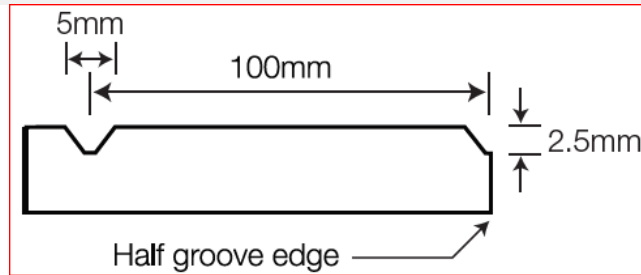
### PRIMAaqua, PRIMAlux, PRIMACTU, PRIMAliner, PRIMAalpha Groove

**PRIMAliner** – A flat autoclaved cellulose fibre cement sheet with square rebated edges on both sides of its length for flush jointed internal walls. Available in 6.0mm, 9.0mm, and 12.0mm thickness. The density at Equilibrium Moisture Content (EMC) of 7% is 1390kg/m<sup>3</sup>. Flexural strength at EMC:

- Dry – 14.0 MPa
- Wet – 8.0 MPa

For more information about standard sizes and product physical and mechanical properties, and installation instructions refer to **PRIMAliner** International brochure V4 1804.

**PRIMAalpha Groove** – A flat 7.5mm thick autoclaved cellulose fibre cement sheet with decorative V-shaped grooves carved into the sanded surface.

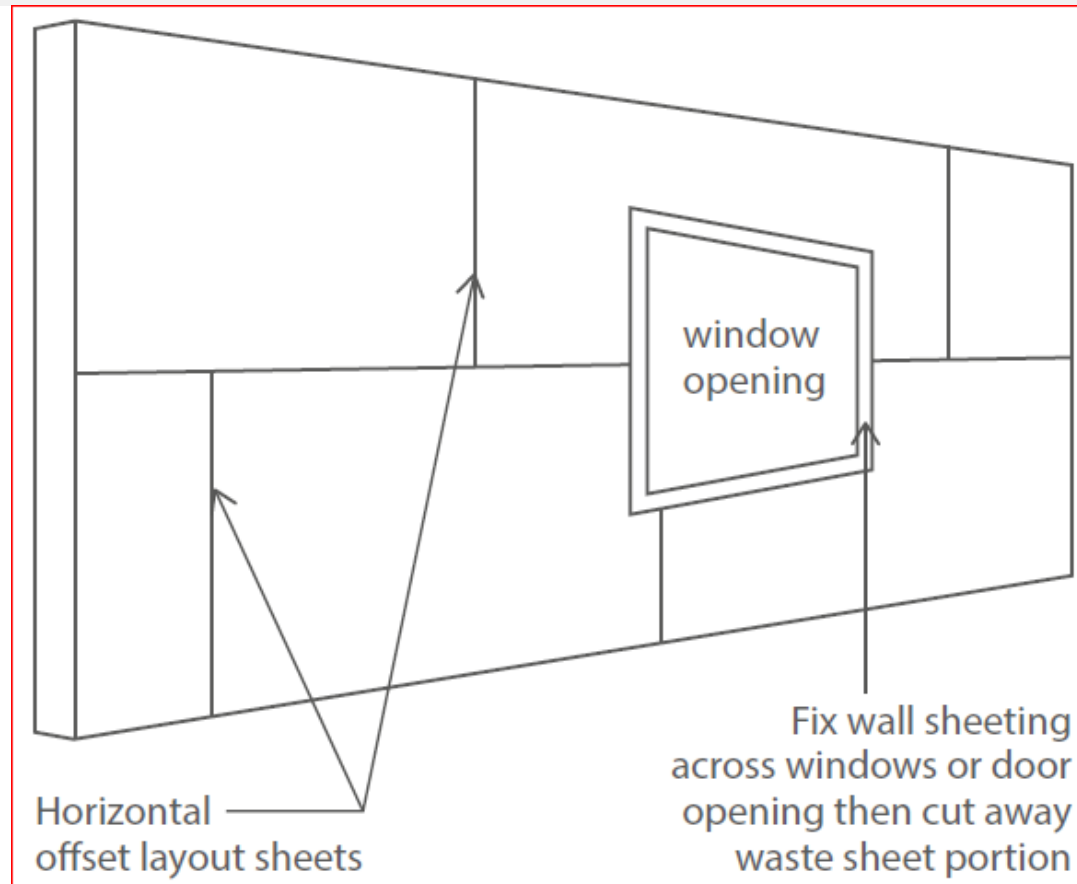


Properties	Values
Product Composition	Top Grade Cellulose Fiber Finely Ground Sand Portland Cement Water
Bending Strength (Saturation)	> 7 MPa (AS/NZS 2908.2)
Category	3
Type	A
Average Density (Oven Dry)	1300 kg/m <sup>3</sup> (AS/NZS 2908.2)
Dimensional & Geometrical Conformance	Passed (AS/NZS 2908.2)
Water Permeability	Passed (AS/NZS 2908.2)
Moisture Movement 30-90% relative humidity	0.05% (ISO 8336: 2009)
Heat-Rain Resistance	Passed (AS/NZS 2908.2)
Frost Resistance	Passed (AS/NZS 2908.2)
Warm Water Resistance	Passed (AS/NZS 2908.2)
Soak-Dry Performance	Passed (AS/NZS 2908.2)

For more information about standard sizes and product physical and mechanical properties, and installation instructions refer to **PRIMAalpha Groove** Technical Manual International V1 2019.

#### 10 SUPPORTING INFORMATION ABOUT INTENDED USE

**PRIMAaqua** – An internal wall and ceiling linings, or as a substrate for tiles in wet areas. Sheets may be installed vertically or horizontally and are to be placed in a pattern to minimise the number of joints. Horizontal sheeting is more convenient for residential construction. When fixing horizontally, sheets must be laid in staggered or brick pattern. Sheet joints must not coincide with sides of openings. Refer to Figure below.



**PRIMAlux** – An internal wall and ceiling lining for dry and wet area applications where flushed joints are not required.

**PRIMACTU** – A substrate for ceramic tiles in wet and dry areas. Sheets are to be laid in a staggered or brick pattern, across the direction of floorboards. Sheet joints must not coincide with floorboard joints as shown in Figure 1 below.

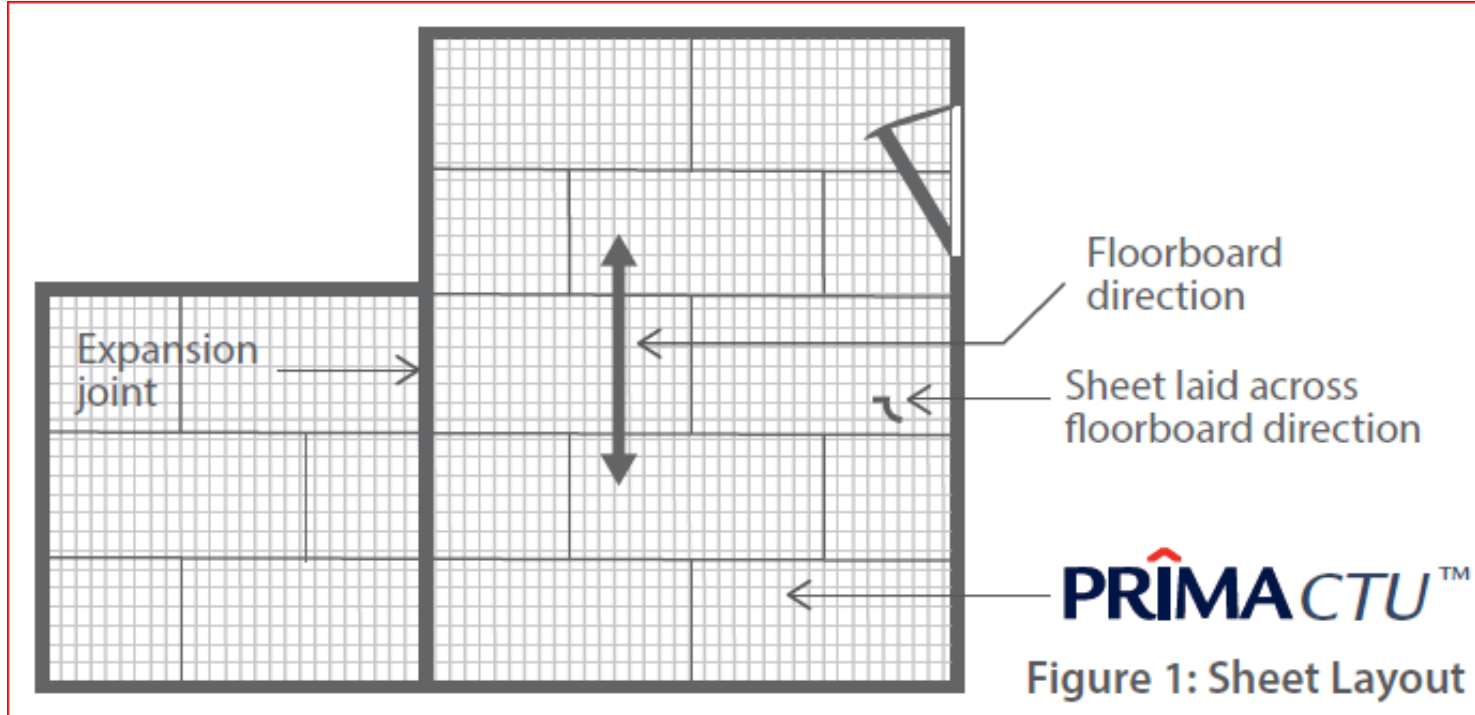


Figure 1: Sheet Layout

**PRIMAliner** – An internal wall lining where seamless joint is required or as a substrate for ceramic or marble tiles in wet areas.

**PRIMAalpha Groove** – An internal wall and ceiling lining. Suitable for use with either timber or light gauge steel framed houses or buildings.

For more information about intended use, refer to the following manuals, as relevant:

- PRIMA International Internal Lining Technical Manual V2. (for **PRIMAaqua**, **PRIMAlux**, and **PRIMACTU**)
- **PRIMAliner** International brochure V4 1804 (for **PRIMAliner**)
- **PRIMAalpha Groove** Technical Manual International V1 2019 (for **PRIMAalpha Groove**)





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#### 11 SUPPORTING INFORMATION ABOUT CONDITIONS AND LIMITATIONS OF USE

All conditions and limitations are as stated above in item 6. **Conditions and Limitations of Use**

#### 12 BASIS FOR CERTIFICATION

1. **Structure – by testing and comparison with provisions of Verification Method B1/VM1 and Acceptable Solution B1/AS1**
2. **Durability – by testing and comparison with provisions of Verification Method B2/VM1**
3. **Fire – by testing and comparison with the provisions of Verification Method C/VM2**
4. **Internal Moisture – by comparison with the provisions of Acceptable Solution E3/AS1**
5. **Hazardous Building Materials – by analysis by testing**

#### 13 SUPPORTING DOCUMENTATION FOR CERTIFICATION

1. **CSIRO Report FNC9015 Combustibility Test for Material (October 2007)**  
*This report presents results of testing PRIMAaqua/PRIMAliner in accordance with AS 1530.1-1984 Methods for fire tests on building materials, components and structures - Part 1: Combustibility test for materials and designates the product as non-combustible.*
2. **HCI/17/000300AA Tests (PRIMAaqua) to AS/NZS2908.2 (December 2017)**  
*This report contains the results of testing PRIMAaqua to AS/NZS 2908.2, including bending strength, apparent density, water permeability, warm water, dry soak, freeze-thaw, heat rain and dimensional tolerances, and indicated the material complied in all respects with the performance characteristics required of Type A (external application) sheets, Category 3 under AS/NZS 2908.2:2000 Cellulose cement products Part 2: Flat sheets.*
3. **HCI/17/000300AB Tests (PRIMAaqua) to AS/NZS2908.2 (December 2017)**  
*This report contains the results of testing PRIMAaqua to AS/NZS 2908.2, including bending strength, apparent density, and dimensional tolerances, and indicated the material complied in all respects with the performance characteristics required of Type B (internal application) sheets, Category 3 under AS/NZS 2908.2:2000 Cellulose cement products Part 2: Flat sheets.*
4. **HCI/12/000200AA Tests (PRIMAliner) to AS/NZS2908.2 (April 2013)**  
*This report contains the results of testing PRIMAliner to AS/NZS 2908.2, including bending strength, apparent density, water permeability, warm water, dry soak, freeze-thaw, heat rain and dimensional tolerances, and indicated the material complied in all respects with the performance characteristics required of Type A (external application) sheets, Category 3 under AS/NZS 2908.2:2000 Cellulose cement products Part 2: Flat sheets.*
5. **HCI/12/000200AB Tests (PRIMAliner) to AS/NZS2908.2 (April 2013)**  
*This report contains the results of testing PRIMAliner to AS/NZS 2908.2, including bending strength, apparent density, and dimensional tolerances, and indicated the material complied in all respects with the performance characteristics required of Type B (internal application) sheets, Category 3 under AS/NZS 2908.2:2000 Cellulose cement products Part 2: Flat sheets.*
6. **HCI/18/000200AB Tests (PRIMACTU) to AS/NZS2908.2 (May 2018)**  
*This report contains the results of testing PRIMACTU to AS/NZS 2908.2, including bending strength, apparent density, and dimensional tolerances, and indicated the material complied in all respects with the performance characteristics required of Type B (internal application) sheets, Category 3 under AS/NZS 2908.2:2000 Cellulose cement products Part 2: Flat sheets.*
7. **HCI/18/000700AB Tests (PRIMAalpha Groove) to AS/NZS2908.2 (February 2019)**  
*This report contains the results of testing PRIMAalpha Groove to AS/NZS 2908.2, including bending strength, apparent density, and dimensional tolerances, and indicated the material complied in all respects with the performance characteristics required of Type B (internal application) sheets, Category 3 under AS/NZS 2908.2:2000 Cellulose cement products Part 2: Flat sheets.*



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**8. BRANZ Appraisal 636 PRIMACTU (23 May 2019)**

*This report contains an assessment by BRANZ of the PRIMACTU in forming an opinion on the product durability in accordance with AS/NZS2908:1992 and concludes it is suitable for use with waterproofing membranes in wet areas.*

**9. BRANZ Appraisal 737 PRIMAaqua & PRIMAliner (9 August 2019)**

*This report contains an assessment by BRANZ of the PRIMAaqua and PRIMAliner to demonstrate the required internal wall lining fixing and internal ceiling lining pull-off strength for both steel and timber framing for Wind Zones of NZ 3604 and includes consideration of internal moisture performance of the product when installed and finished as wall linings to provide surfaces that are impervious and easily cleaned.*

**10. CSIRO Appraisal 244 PRIMAaqua & PRIMAliner (February 1999)**

*This report contains an assessment by CSIRO of the PRIMAaqua and PRIMAliner wall and ceiling lining and concludes that the product is suitable for use in dry or wet areas that are not subject to direct sunlight, rain or snow.*

**11. OPUS Appraisal 1997/14 PRIMAaqua Fibre Cement Wallboard (June 1998)**

*This report contains an assessment by Opus on the properties and performance of PRIMAaqua for use as internal wall and ceiling lining in wet areas or areas subject to water splash must be lined with materials detailed in E3/AS1 and includes testing done at Opus Central Laboratories confirming the product will provide adequate resistance to impacts likely to occur in normal residential use.*

**12. Envirolab (various samples of Hume Cemboard fibre cement panels and thicknesses) Tests to AS4964 – Method for the qualitative identification of asbestos in bulk samples**

*Samples of Hume Cemboard fibre cement panels were tested, and results of the analysis confirmed no asbestos was detected*

#### 14 CONDITIONS RELATING TO NOTIFICATION

The certificate holder [HUME CEMBOARD INDUSTRIES SDN BHD-CENTRAL] must notify the product certification body [SAI Global] in writing, of any intended change to any of the following particulars:

- The name, address, or contact details of the certificate hold;
- Any address of a location where a certified product is produced or manufactured

The certificate holder shall notify the product certification body in writing of any intended change, modification, or alteration to any of the following:

- The certified building method or product;
- The method of its production or manufacture;
- The product quality plan prepared in respect of the certified building method or product;
- The application or installation instructions for the certified building method or product;
- Any documentation relating to the use and maintenance of the certified building method or product.

If the certificate holder has any reason to suspect that the certified building method or product does not comply with the Building Code, the certificate holder notifies the product certification body in writing of the reason for that suspicion.

If the certificate holder or the product certification body finds that a certified building method or product that has been released on the market does not comply with the Building Code, the certificate holder discloses that fact in disclosure statements published in a form that is acceptable to the product certification body and to MBIE.

If the certificate is suspended or revoked, the certificate holder—

- shall notify all customers to whom the building method or product is regularly supplied; and
- immediately ceases using the certificate, the mark of conformity, and any reference to the number of the certificate



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Page 9 of 9

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