# Certificate of Conformity

**Certification Body:**

SAI Global Certification Services Pty Limited

(ACN 108 716 669) Operating as "Intertek & Intertek SAI Global"

JAS-ANZ Accreditation No. Z1440295AS

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**Certificate Holder:**

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**Certificate number: CM20198**

THIS TO CERTIFY THAT

## CEMINTEL® Barestone Walling System

**Type and/or use of product:**

CEMINTEL® Barestone is an external walling system for residential and commercial buildings. Suitable for use on all building classes where metal top hats can be fixed either to steel stud framing, timber stud framing, or to masonry and concrete substrates.

For Class 2 to Class 9 buildings, CEMINTEL® Barestone walling system is suitable for only Type C Fire-Resisting Construction when fixed to timber stud framing.

CEMINTEL® Barestone panels are also used as internal wall lining.

**Description of product:**

CEMINTEL® Barestone panels are prefinished, square edged, compressed fibre cement panels trimmed and sealed in a standard 1200mm x 2400mm x 9mm or 1200mm x 3000mm x 9mm size. The panels are available in a range of colours featuring a sanded textured finish.

The wall system components & accessories are detailed in the Cemintel Design and Installation Guide – Barestone Series – External Installation dated 03/2020 and for internal applications Internal Design and Installation Guide dated 03/2020.

COMPLIES WITH THE FOLLOWING BCA PROVISIONS AND STATE OR TERRITORY VARIATION(S)

**BCA 2019 Amdt 1**

| | Volume One | | Volume Two | |
|---|---|---|---|---|
| **Performance Requirement(s)** | **BP1.1(a) limited to (b)(i)(ii)(iii)** | **Structural reliability** | **P2.1.1(a) limited to (b)(i)(ii)(iii)** | **Structural stability and resistance** |
| | **FP1.4** | **Weatherproofing** | **P2.2.2** | **Weatherproofing** |
| **Deemed-to-Satisfy Provision(s):** | **C1.1(b) including Spec C1.1 Clause 3** | **Fire Resistance –** Type A Fire-Resisting Construction (120/120/120, or -/180/180 when used in a system with Fyrchek™ MR | **3.7.1.1(d)** | **General concession — non-combustible materials** |
| | | | **3.7.2.4(b)(i)** | **Fire separation of external walls** – Construction of external walls (FRL 60/60/60) |

SAI Global Certification Services

Calin Moldovean
President, Business Assurance
SAI Global Assurance

Harley Parkes – Unrestricted Building Certifier

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| | | | | |
|---|---|---|---|---|
| | | plasterboard, refer to the Design and Installation Guide) | **3.10.5.0(c)** | **Construction in bushfire prone areas** |
| | **C1.9(e)(iv)** | **General concession** — Materials may be used wherever a non-combustible material is required | | |
| | **C1.10(a)(ii) including Spec C1.10 Clause 4** | **Fire hazard properties** – Wall and ceiling linings | | |
| | **G5.1 & G5.2** | **Construction in bushfire prone areas – (**up to and including BAL 40) | | |
| **State or territory variation(s):** | **NSW G5.2** | **Construction in Bushfire Prone Areas –** Protection. | **NSW 3.10.5.0** | **Construction in bushfire prone areas** |
| | **QLD G5.1** | **Construction in Bushfire Prone Areas –** Construction Requirements | **QLD 3.10.5.0** | **Construction in bushfire prone areas** |

**SUBJECT TO THE FOLLOWING LIMITATIONS AND CONDITIONS AND THE PRODUCT TECHNICAL DATA IN APPENDIX A AND EVALUATION STATEMENTS IN APPENDIX B**

**Limitations and conditions:**

1. CEMINTEL® Barestone Walling System with Fyrchek™ MR Plasterboard can be used where the required Fire Resistance Levels (FRLs) does not exceed 120/120/120, or -/180/180 as specified in the NCC 2019.1 BCA Volume One specification C1.1. The installation must be in accordance with the relevant details contained within the System Engineering section of Cemintel Design and Installation Guide – Barestone Series – External Installation dated 03/2020 for system No. CSR5874 (FRL 120/120/120) and system No. CSR5349 (120/120/120, or -/180/180).
2. For Class 2 to Class 9 buildings, CEMINTEL® Barestone walling system is suitable for only Type C Fire-Resisting Construction when fixed to timber stud framing.
3. For type C Fire-Resisting Construction, CEMINTEL® Barestone Walling System has not been assessed against the requirements of Specification C1.1 Clause 5.1(c) of a fire wall or an internal wall bounding a sole-occupancy unit or separating adjoining units.
4. CEMINTEL® Barestone when used as an internal wall lining achieved a Group Number 1 and Smoke Growth Rate Index ($SMOGRA_{RC}$ 0.2 $m^2s^{-2}$x1000) as determined in accordance with AS 5637.1:2015.
5. The following were the only wall wraps assessed against the requirements of C1.9(e)(vi) for sarking-type material:

**Building classification/s:**

Volume 1 – Class 2 to Class 9 buildings

Volume 2 – Class 1 and Class 10(a) buildings

a) Bradford Thermoseal™ Wall Wrap.
b) Enviroseal ProctorWrap Commercial Wall (CW).
c) Enviroseal ProctorWrap Residential Wall (RW).

6. The following were the only insulations assessed against the requirements of C1.9(a) for non-combustible building elements:
   a) 75 Gold Batts R1.5 at 8.76kg/m$^3$ density.
   b) 75 Gold Batts R2.0 at 6.3kg/m$^3$ density.
   c) 90 Gold Batts R2.0 at 10.5kg/m$^3$ density.
   d) 90 Gold Batts R2.5 at 21.2kg/m$^3$ density.
   e) 75 Acoustigard R1.7 at 11.0kg/m$^3$ density.
   f) 90 Acoustigard R2.2 at 14.0kg/m$^3$ density.
   g) 90 Acoustigard R2.5 at 20.0kg/m$^3$ density.
7. CEMINTEL® Barestone Walling System shall be used for its intended purpose. For further information on limited applications of the product, refer to Cemintel Design and Installation Guide – Barestone Series as relevant:
   a) External Installation dated 03/2020.
   b) Internal Installation dated 03/2020.
8. CEMINTEL® Barestone Walling System has been tested for weatherproofing requirements and is limited to serviceability limit state wind pressures up to ±2.5kPa water penetration for the cavity system using Cemintel rigid air barrier (typically 6mm thick fibre cement sheet). Construction details and fixing must follow the relevant details contained within the System Engineering section of Cemintel Design and Installation Guide – Barestone Series – External Installation dated 03/2020.
9. CEMINTEL® Barestone Walling System has been evaluated for use in all Australian wind zones up to and including N6 and Cyclonic C4 in accordance with AS 4055 and for ultimate wind pressures up to 7.0 kPa under AS 1170.2 including cyclonic zones when fixed to steel framing with Cemintel Rigid Air Barrier.
10. CEMINTEL® Barestone Walling System is not certified for either energy efficiency or acoustic performance.
11. Site environmental factors such as wind and corrosivity zones need to be considered to determine its suitability for a particular environment.
12. CEMINTEL® Barestone Walling System is suitable for use on buildings constructed in accordance with AS 3959:2018 that have a Bushfire Fire Attack Level up to and including BAL 40.
13. All flashing including inter-storey junction must be metal flashing.

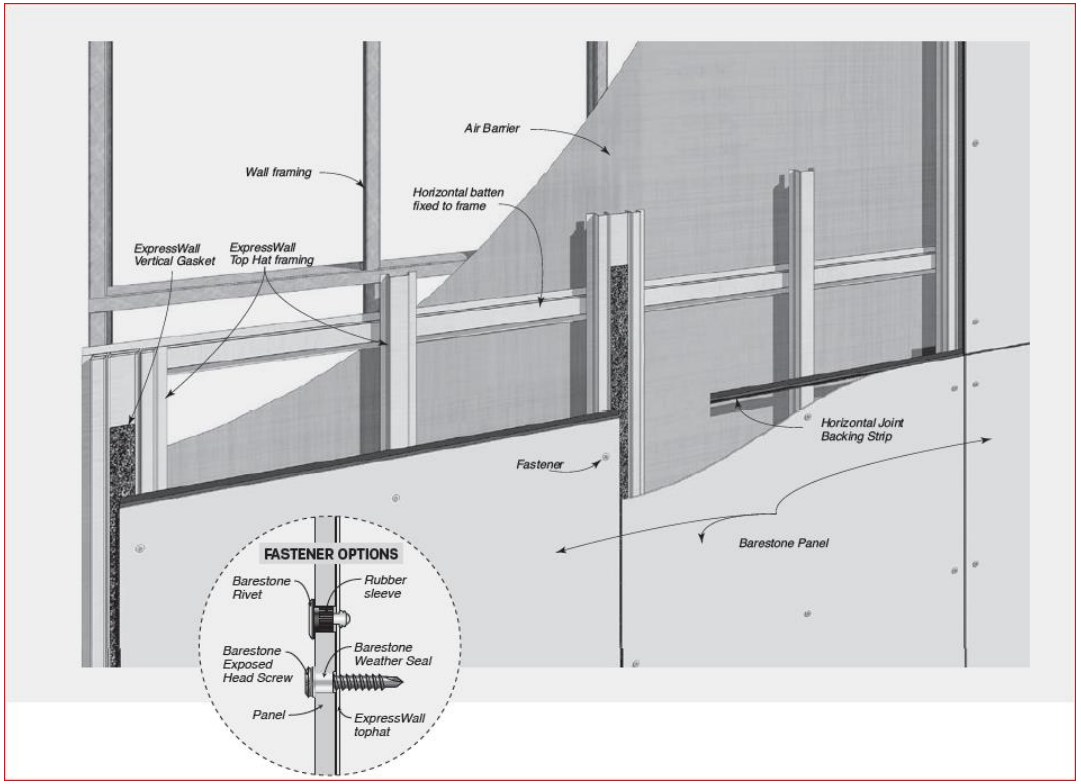
## APPENDIX A – PRODUCT TECHNICAL DATA

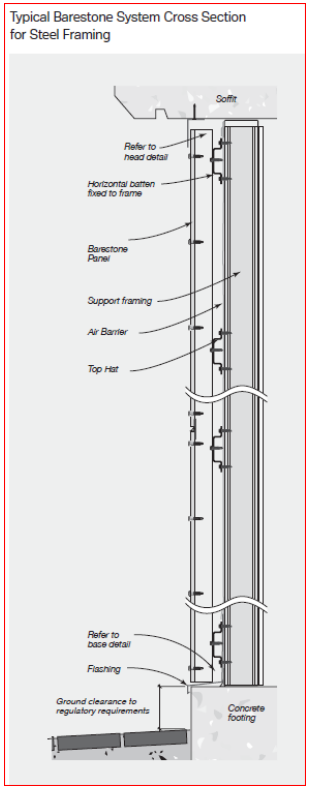
**A1 Type and intended use of product**

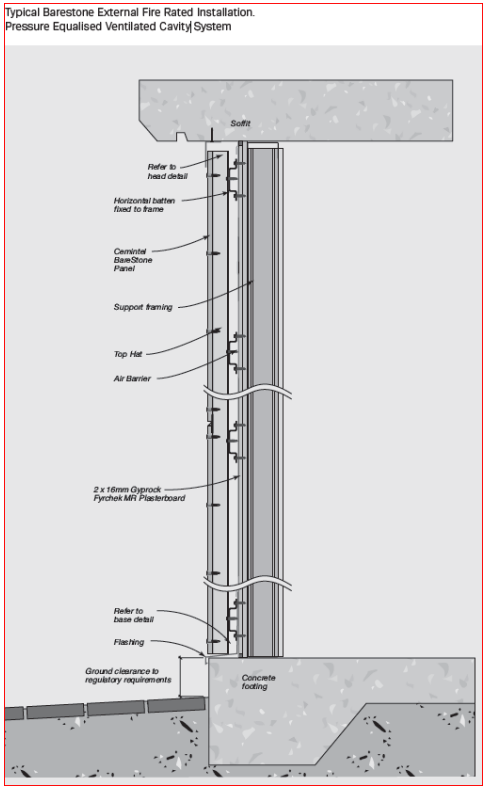
Refer to Page 1 of this certificate.

**A2 Description of product**

Refer to Page 1 of this certificate and the below diagrams.



**A3 Product specification**

Below are some physical properties of fibre cement and system specifications.

**Product Specifications**

| Property | Specification | Manufacturing Tolerance | Relevant Standard |
|---|---|---|---|
| Panel Width | 1200mm | + 0 / - 2.0mm | AS 2908.2 |
| Panel Length | 2400 and 3000mm | + 0 / - 2.0mm | AS 2908.2 |
| Panel Thickness | 9mm | + 0.45 / - 0mm | AS 2908.2 |
| Panel Weight (EMC) | 17.8kg/m² | | AS 2908.2 |

**System Solutions**

| | | |
|---|---|---|
| Fire Resistance Level (FRL) | Up to 120/120/120, -/180/180 when used in a system with Gyprock fire grade plasterboard | Refer to System Engineering section or the "The Red Book™ |
| Bushfire Construction | BAL 40 (Construction for Bushfire Attack Level 40 for an external wall) | AS 3959 – 8 |
| Weatherproofing | Suitable for a serviceability wind pressure of +2.50 kPa when installed as a pressure equalised system. | AS 4284 |
| Wind actions (including Cyclonic) | Suitable for ultimate wind loads up to 7.0 kPa with Cemintel Rigid Air Barrier, including cyclonic conditions, and up to 2.5 kPa with Enviroseal ProctorWrap CW-IT | AS 4040.3 |

**A4 Manufacturer and manufacturing plant(s)**

**A5 Installation requirements**

Refer to Page 3 of this certificate and the following:

1. Cemintel Design and Installation Guide – Barestone Series – External Installation dated 03/2020.
2. Cemintel Design and Installation Guide – Barestone Series – Internal Installation dated 03/2020.

**A6 Other relevant technical data**

- Technical Datasheets for Bradford Thermoseal™ Wall Wrap, Enviroseal ProctorWrap (CW) Wall Wrap, and Enviroseal ProctorWrap (RW) Wall Wrap with nominal thickness <1.0mm for all three products.
- Technical Datasheet for Bradford Acoustigard partition rolls.

## APPENDIX B – EVALUATION STATEMENTS

**B1 Evaluation methods**

The system has been assessed as complying with the identified Performance Requirements of the NCC 2019 amdt 1 BCA Volumes 1 and 2. This involved a review of product specifications, test reports, installation manuals, and associated documentation.

1. **Structural assessment:**
   - Volumes 1 & 2 – A2.2(2) / A5.2(1)(d) & (e) – A report issued by an Accredited testing Laboratory – Cyclone Testing Station, James Cook University (NATA accreditation No. 14937) and a report from a professional engineer.

2. **Weatherproofing assessment:**
   - Volumes 1 & 2 – A2.2(2) / A5.2(1)(d) & (e) – A report issued by an Accredited testing Laboratory – Ian Bennie and Associates (NATA accreditation No. 2371) and a report from an appropriately qualified person.

3. **Fire Resistance assessment:**
   - Volumes 1 & 2 – A2.3(2) / A5.2(1)(d) – An assessment report issued by an Accredited testing Laboratory – BRANZ Ltd (IANZ accreditation No. 37).

4. **Non-Combustibility (General Concessions):**

   **A. Sarking-type material**
   - Volumes 1 & 2 – A2.3(2) / A5.2(1)(d) – A report issued by an Accredited testing Laboratory – Insulation Research Laboratory (NATA accreditation No. 993).
   - Volumes 1 & 2 – A2.3(2) / A5.2(1)(d) – A report issued by an Accredited testing Laboratory – AWTA Product Testing (NATA accreditation No. 1356).

   **B. Insulation material**
   - Volumes 1 & 2 – A2.3(2) / A5.2(1)(e) – An assessment report from an appropriately qualified person – CSIRO.
   - Volumes 1 & 2 – A2.2(2) / A5.2(1)(d) – A report issued by an Accredited testing Laboratory – Insulation Research Laboratory (NATA accreditation No. 993).

5. **Fire Hazard Properties assessment:**
   - Volume 1 – A2.3(2) / A5.2(1)(e) – An assessment report from an appropriately qualified person – Warringtonfire Australia Pty Ltd.

6. **Resistance to Bushfire Attack assessment:**
   - Volumes 1 & 2 – A2.3(2) / A5.2(1)(f) – Another form of documentary evidence (assessment against specifications in referenced document – AS 3959:2018).

**B2 Reports**

| Evaluation methods | Related Supporting Evidence as listed below |
|---|---|
| Structural Assessment | Numbers 1 – 3 |
| Weatherproofing Assessment | Numbers 4 & 5 |
| Fire Resistance assessment | Numbers 6 & 7 |
| Non-Combustibility (General Concession) | Numbers 8 – 12 |
| Fire Hazard Properties assessment | Number 13 |
| Resistance to Bushfire Construction assessment | Number 14 |

**Structure**

1. **Cyclone Testing Station, James Cook University, Connection Testing, Cyclic Simulated Wind Load Strength Testing, and Assessment of the Cyclic Wind Load Capacity of CSR Cemintel Creative Façade System, Report No. TS1055 Revision A (dated: 26 April 2017).**
   *This document contains the test results of a Cemintel Creative Façade (8mm & 9mm nominal thickness) sample for resistance to simulated cyclic wind load, carried out in accordance with AS 4040.3.*
2. **David Beneke Consulting, Engineering Report for Certification of CSR ExpressWall Façade System, Report 2013-28-LO-1001 Revision 9 (dated 28 June 2019).**
   *This document certifies the maximum top hat spans and spacings of ExpressWall façade system (with either ExpressWall panels or Barestone pre-coated panels) in accordance with normal engineering practice and principals, test methods and the relevant Australian Standards.*
3. **Cyclone Testing Station, James Cook University, Test Report for Simulated Wind Load Component Testing, Report No. TS923 (dated 9 October 2013).**
   *This report contains the test results and provides an assessment for the capacity of the screw connections used in the CSR ExpressWall Façade system by undertaking cyclic pull-out load testing on the exposed head screw connections between the fibre cement cladding and the supporting battens in accordance with AS 4040.3.*

**Weatherproofing**

4. **Ian Bennie and Associates, Test Report for Air Infiltration, Water Penetration and Structural of Cemintel Creative Façade System, Report No. 2016-108-S1 (amended 28 March 2017).**
   *This document contains the test results of the Cemintel Creative Façade System for Structural SLS, Air Infiltration, Water Penetration, and Structural ULS carried out in accordance with AS 4284:2008.*
5. **AECOM, Weatherproofing Assessment for Cemintel Creative (for various rain screen materials including Barestone) Facade System (dated 07 June 2019).**
   *This document confirms the compliance of this product with AS 4284:2008, based on the test results of Report No. 2016-108-S1, by Ian Bennie and Associates.*

**Fire Resistance**

6. **BRANZ, Test Report for Fire Resistance of CSR Steel Framed Wall Systems, Report No. FAR 2357 Issue 12 (dated: 6 July 2017).**
   *This document contains the test results of the CSR steel framed system for resistance to fire, carried out in accordance with AS 1530.4:2014.*
7. **BRANZ, Test Report for Fire Resistance of CSR Timber Framed Walls, Report No. FAR 2303 Issue 3 (dated: 24 December 2015).**
   *This document contains the test results of the CSR timber framed system for resistance to fire, carried out in accordance with AS 1530.4:1997.*

**Non-Combustibility (General Concession)**

**A. Sarking-type material**

8. **CSR Insulation Research Laboratory, Test Report for Flammability Index Assessment of Bradford Thermoseal™ Wall Wrap, Test Report NR-17201 (dated: 1 May 2017).**
   *This test report provides the test results of testing Bradford Thermoseal™ Wall Wrap to AS 1530.2 and returned a result of Flammability Index 1.*
9. **AWTA Product Testing, Test Report for Flammability Index of Enviroseal ProctorWrap (RW) Wall Wrap, test No. 17-000553 (dated: 17 February 2017).**
   *This test report provides the test results of testing ProctorWrap residential wall (RW) to AS 1530.2:1993 and returned a result of Flammability Index 1.*
10. **AWTA Product Testing, Test Report for Flammability Index of Enviroseal ProctorWrap (CW) Wall Wrap, Test No. 16-006359 (dated: 12 December 2016).**
    *This test report provides the test results of testing ProctorWrap commercial wall (CW) to AS 1530.2:1993 and returned a result of Flammability Index 1.*

**B. Insulation**

11. **CSIRO, Assessment Report for combustibility of Bradford Glasswool insulation batts, Assessment Number FCO-2812a (dated: 19 November 2015).**
    *This report provides an assessment of Bradford Glasswool insulation batts and determined the product was not deemed combustible when tested to the requirements of AS 1530.1:1994.*
12. **CSR Insulation Research Laboratory, Combustibility Test of CSR Bradford Acoustigard Partition Rolls, Report No. NR-17002 (dated: 22 March 2017).**
    *This report contains the results of testing CSR Bradford Acoustigard 32kg/$m^2$ Partition Rolls to AS 1530.1:1994 and determined the product was not deemed combustible when tested to the requirements of AS 1530.1:1994.*

**Fire Hazard Properties**

13. **Warringtonfire, Assessment Report for Group Number and Smoke Growth Rate Index (SMOGRARC), Report No. 45759 Revision 10.1 (dated 15 November 2019).**
    *This report shows the assessment undertaken to determine the likely fire hazard properties of the CSR wall and ceiling lining products and determined CSR plasterboard products are likely to achieve Group 1 classification and $SMOGRA_{RC}$ 0.5$m^2s^{-2}$ x 1000 and CSR Cemintel fibre cement panels (including Barestone 9-12mm Barestone) are likely to achieve Group 1 classification and $SMOGRA_{RC}$ 0.2$m^2s^{-2}$ x 1000 if tested in accordance with AS ISO 9705:2003 (R2016) and assessed in accordance with AS5637.1:2015.*

**Resistance to Bushfire Attack**

14. **Cemintel® Construction Guide for Bushire Areas (dated October 2019).**
    *This guide provides information on Cemintel® wall cladding products and systems to meet the requirements of each BAL when assessed against specifications in AS 3959:2018.*