Certificate of Conformity

Certification Body:

SAI GLOBAL

SAI Global Certification Services Pty Limited

(ACN 108 716 669) Trading as "SAI Global"

JAS-ANZ Accreditation No. Z1440295AS

Address: 680 George St, Sydney, NSW 2000

Website: www.saiglobal.com

Certificate Holder:

CSR Building Products Limited
(Trading as CSR Cemintel)
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North Ryde, NSW, 2113, Australia
Phone: 1800 633 826
Website:
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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

	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) & 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

Heather Mahon
Global Head of Technical Services
SAI Global Assurance

Quintin Kleyn – 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 deemed to be non-combustible**		
	C1.10(a)(ii) & 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 3.10.5.0	**Construction in bushfire prone areas**
	QLD G5.1	**Construction in Bushfire Prone Areas –** Construction Requirements		

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. 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 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, 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. Barestone Walling System achieves a Group Number 1 and Smoke Growth Rate Index ($SMOGRA_{RC}$ 0.2 m^2s^2x1000) 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:
    a) Bradford Thermoseal™ Wall Wrap
    b) Enviroseal ProctorWrap Commercial Wall (CW)
    c) Enviroseal ProctorWrap Residential Wall (RW)

Building classification/s:

Volume 1 – Class 2 to Class 9 buildings

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

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. 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. Barestone Walling System has been tested for weatherproofing requirements and achieved 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. 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. The 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. Barestone Walling System is suitable for use on buildings constructed in accordance with AS 3959:2018 that are have a Bushfire Fire Attack Level up to and including BAL 40
13. All flashing including inter-storey junction must be metal flashing.

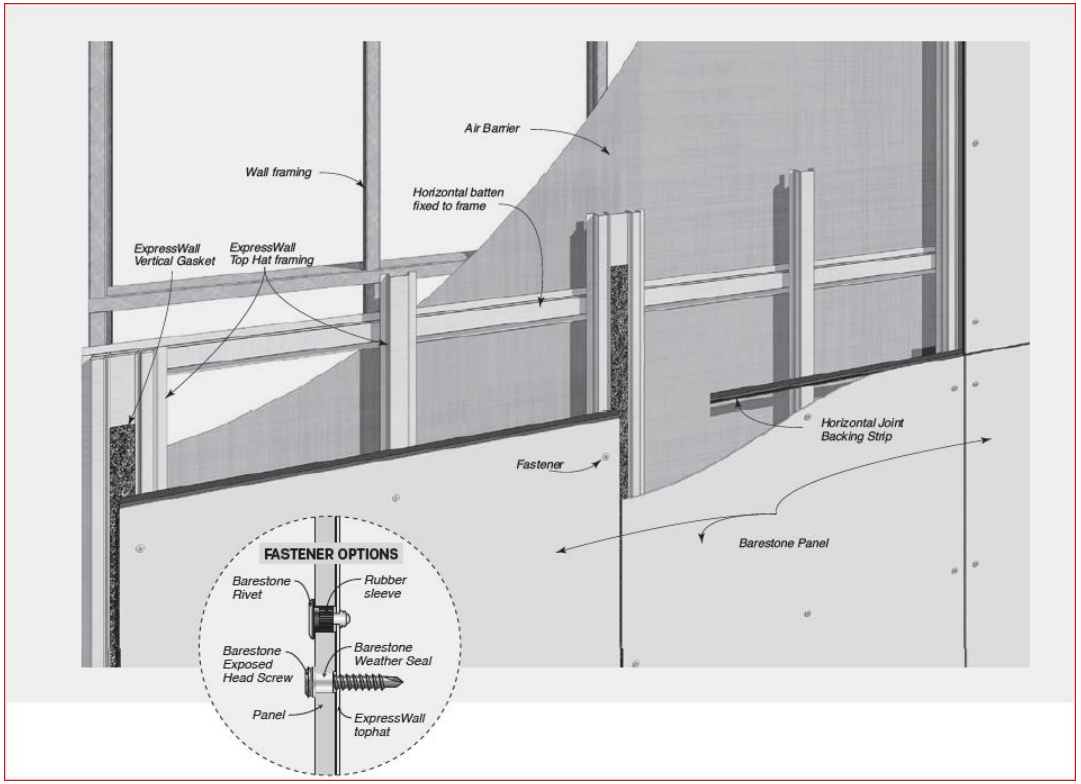
APPENDIX A – PRODUCT TECHNICAL DATA

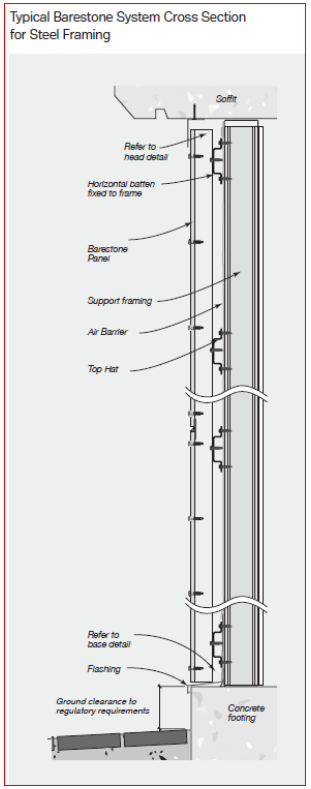
A1 Type and intended use of product

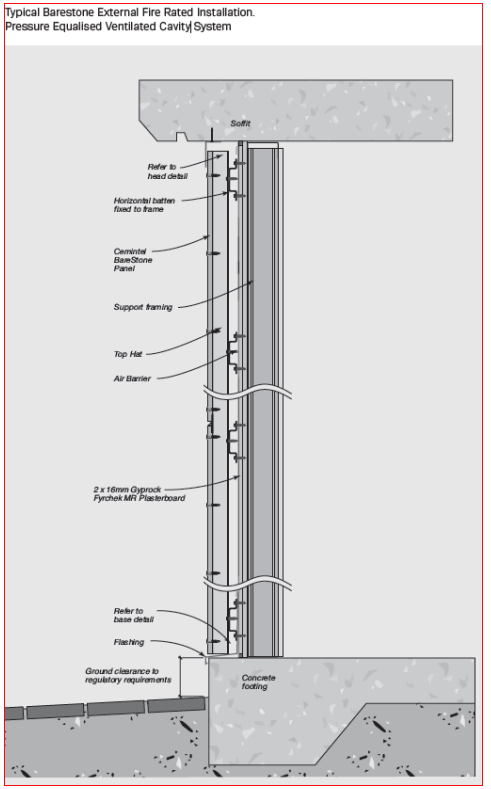
Refer to Page 1 of this certificate.

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 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 – Warrington Australia Pty Ltd
   - Volume 1 – A2.3(2) / A5.2(1)(d) – A report issued by an Accredited testing Laboratory – Insulation Research Laboratory (NATA accreditation No. 993)
   - Volume 1 – A2.3(2) / A5.2(1)(d) – A report issued by an Accredited testing Laboratory – AWTA Product Testing (NATA accreditation No. 1356)

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, 2, 3, 4, & 5
Weatherproofing Assessment	Numbers 6 & 7
Fire Resistance assessment	Numbers 8 & 9
Non-Combustibility (General Concession)	Numbers 10, 11, 12, 13, & 14
Fire Hazard Properties assessment	Numbers 10, 11, 12, & 15
Resistance to Bushfire Construction assessment	Number 16

Structure

1. **Test Report from a NATA accredited testing laboratory (Accreditation No: 14937) for Connection Testing Cyclic Simulated Wind Load Strength Testing and Assessment of the Cyclic Wind Load Capacity of CSR Cemintel Creative Façade System from James Cook University, 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. **Test Report from a NATA accredited testing laboratory (Accreditation No: 14937) for Assessment of the Cyclonic Wind Load Capacity of CSR ExpressWall Façade System from James Cook University, Report No. TS584 (dated 4 August 2003)**
   This document contains the test results of a Cemintel Creative Façade (9mm nominal thickness) sample for resistance to simulated cyclic wind load, carried out in accordance with AS 4040.3. Reappraisal Test Report Summary from a NATA accredited testing laboratory (Accreditation No: 14937) for Assessment of the Cyclonic Wind Load Capacity of CSR Express Wall Façade System from James Cook University, Report No. TS584 (dated 31 December 2016). This document contains the re appraisal test results of a CSR ExpressWall Façade (9mm nominal thickness) sample for resistance to simulated cyclic wind load, carried out in accordance with AS 4040.3.
3. **Certification of CSR ExpressWall Façade System by David Beneke Consulting, 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.
4. **Durability opinion of CSR ExpressWall Metal Components from Branz, Report No. DZ0073 (dated 20 September 2004)**
   This document contains the opinion of the likely resistance of the ExpressWall system components in relation to durability and Category 4 (Severe Marine) or less, for a minimum service life of 15 years.

5. **Test Report for Simulated Wind Load Component Testing of Screws used in CSR ExpressWall Façade System from James Cook University, Report No. TS923 (dated 9 October 2013)**
   This report 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.

Weatherproofing

6. **Test Report for Air Infiltration, Water Penetration and Structural ULS of Cemintel Creative Façade System, Report No. 2016-108-S1 (dated 24 February 2017 amended 28 March 2017)**
   This document contains the test results of the Cemintel Creative Façade System for Water Penetration, carried out in accordance with AS 4284:2008.
7. **Report from AECOM consultancy advice pertaining to the Cemintel Creative Facade System (for various rain screen materials including Barestone) (dated 07 June 2019).**
   This advice 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

8. **Test Report for Fire Resistance of CSR Steel Framed Wall Systems from Branz, Report No. FAR 2357 Issue 12 (dated: 06 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.
9. **Test Report for Fire Resistance of CSR Timber Framed Walls from Branz, 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

10. **Test Report for Flammability Index of Bradford Thermoseal™ Wall Wrap from Insulation Research Laboratory, Report No. NR-17201 (dated: 1 May 2017)**
    The report provides the results to testing to AS1530.2:1993 and returns a result of Flammability index 1 for the Bradford Thermoseal wall wrap.
11. **Test Report for Flammability Index of Enviroseal ProctorWrap (CW) Wall Wrap from AWTA, test No. 16-006359 (dated: 12 December 2016)**
    The report provides the results to testing of Proctorwrap commercial wall (CW) for AS1530.2:1993 and returns a result of flammability index of 1.
12. **Test Report for Flammability Index of Enviroseal ProctorWrap (RW) Wall Wrap from AWTA, test No. 17-000553 (dated: 17 February 2017)**
    The report provides the results to testing of Proctorwrap residential wall (RW) for AS1530.2:1993 and returns a result of flammability index of 1.

B. Insulation

13. **Assessment Report for combustibility of Bradford Glasswool insulation batts from CSIRO, Report No. FCO-2812a (dated: 19 November 2015)**
    This document provides an assessment of Bradford Glasswool insulation batts and were not deemed combustible when tested to the requirements of AS 1530.1:1994.
14. **Test Report for combustibility of Bradford Acoustigard from Insulation Research Laboratory, Report No. NR-17002 (dated: 22 March 2017)**
    This report contains the results of Bradford Acoustigard insulation batts carried out in accordance with AS 1530.1:1994 and were not deemed combustible.

Fire Hazard Properties

10. **Test Report for Flammability Index of Bradford Thermoseal™ Wall Wrap from Insulation Research Laboratory, Report No. NR-17201 (dated: 1 May 2017)**
    The report provides the results to testing to AS1530.2:1993 and returns a result of Flammability index 1 for the Bradford Thermoseal wall wrap.
11. **Test Report for Flammability Index of Enviroseal ProctorWrap (CW) Wall Wrap from AWTA, test No. 16-006359 (dated: 12 December 2016)**
    The report provides the results to testing of Proctorwrap commercial wall (CW) for AS1530.2:1993 and returns a result of flammability index of 1.
12. **Test Report for Flammability Index of Enviroseal ProctorWrap (RW) Wall Wrap from AWTA, test No. 17-000553 (dated: 17 February 2017)**
    The report provides the results to testing of Proctorwrap residential wall (RW) for AS1530.2:1993 and returns a result of flammability index of 1.
15. **Assessment Report for Group Number and Smoke Growth Rate Index (SMOGRARC) from Exova Warrington, 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 if tested in accordance with AS ISO 9705:2003 (R2016) and AS5637.1:2015

Resistance to Bushfire Attack

16. **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