



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

Address: Level 7 Suite 7.01. 45 Clarence Street, Sydney NSW 2000 Australia

Website: saiassurance.com.au



Certificate Holder:

CSR Building Products Limited (Trading as CSR Cemintel)

Trinity 3, 39 Delhi Road, North Ryde, NSW, 2113, Australia
Phone: 1800 633 826

Website: <https://www.csr.com.au/About-Us/Contact-Us>

Certificate number: CM20198

THIS TO CERTIFY THAT

CEMINTEL Barestone™ Wall Cladding System

Type and/or use of product:

CEMINTEL Barestone™ is an external wall cladding system for residential and commercial buildings. Suitable for use on all buildings 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™ wall cladding 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 and sanded textured finish.

The wall system components & accessories are detailed in the CEMINTEL BARESTONE™ EXTERNAL - Design & Installation Guide 12/2023 REV02 and for internal applications CEMINTEL BARESTONE™ INTERNAL - Internal Wall Installation 05/2023.

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

BCA 2022

	Volume One		Volume Two and ABCB Housing Provisions	
Performance Requirement(s)	B1P1(1) limited to (2)(a) & (c)	Structural reliability (limited to self-weight and wind actions)	H1P1(1) limited to (2)(a) & (c)	Structural stability and resistance (limited to self-weight and wind actions)
Deemed-to-Satisfy Provision(s):	F3P1 C2D2 including Specification 5 (as applicable)	Weatherproofing Fire resistance and stability – Type of construction required (FRL 120/120/120, or -/180/180 when used in a system with Fyrchek™ MR plasterboard, refer below to Section A3	H2P2 H3D2(1)(a) & (d)	Weatherproofing General concession — Materials may be used wherever a non-combustible material is required
			H3D3 and Clause 9.2.3(2)(a) of	Fire separation of external walls – Construction of external walls (FRL 60/60/60 when used in a system with

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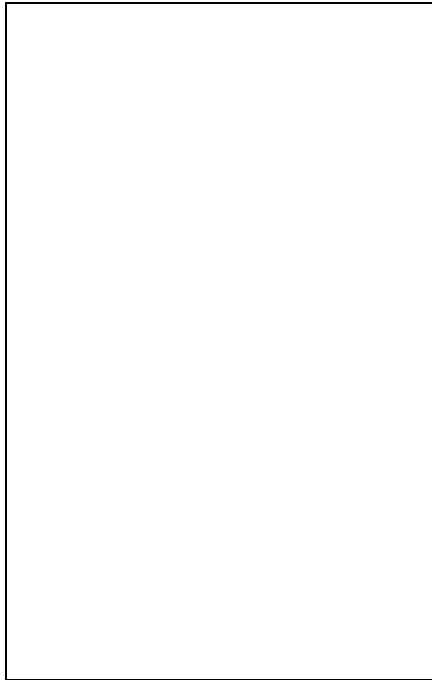
Calin Moldovean
President, Business Assurance
SAI Global Assurance

James Deters – Unrestricted Building Certifier

Date of issue: 28 March 2024

Date of expiry: 16 March 2026





State or
territory
variation(s):

“A3 Product specification” of this certificate)

C2D10(6)(a) & (d)

General concession – Materials may be used wherever a non-combustible material is required

C2D11(1)(b) including Specification 7

Fire resistance and stability – Fire hazard properties

Clause S7C4 G5D3

Construction in bushfire-prone areas – Protection — residential buildings (refer to Limitations and conditions below)

SA C2D2

Fire resistance and stability – Type of construction required

NSW C2D11

Fire resistance and stability – Fire hazard properties

NSW G5D3

Construction in bushfire-prone areas – Protection — residential buildings (refer to Limitations and conditions below)

ABC Housing Provisions

Fyrchek™ MR plasterboard, refer below to Section A3 of this certificate)

H7D4(2)(a)

Construction in bushfire-prone areas (refer to Limitations and conditions below)

NSW H7D4

Construction in bushfire-prone areas (refer to Limitations and conditions below)

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™ Wall Cladding 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 2022 BCA Volume One Specification 5. The installation must be in accordance with the relevant details contained within the System Engineering section of CEMINTEL BARESTONE™ EXTERNAL – Design & Installation Guide 12/2023 REV02 and system specifications details shown below in section “A3 Product specification”.
2. For Class 2 to Class 9 buildings, CEMINTEL Barestone™ Wall Cladding 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™ Wall Cladding System has not been assessed against the requirements of Specification 5 Clause S5C24(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 (SMOGR_{RC} 0.2 m²s⁻²x1000) as determined in accordance with AS 5637.1:2015.
5. The following were the only wall wraps assessed against the requirements of C2D10(6)(f) for sarking-type material:
 - a) Bradford Thermoseal™ Wall Wrap.
 - b) Bradford Thermoseal™ Firespec Wall Wrap.
 - c) Enviroseal Commercial Wall (CW).
 - d) Enviroseal Residential Wall (RW).
 - e) Enviroseal Residential Wall Plus (RW Plus)Other wall wraps may also be used provided they comply with the requirements of C2D10(6)(f) for sarking type materials.
6. The following were the only insulations assessed against the requirements of C2D10(1) for non-combustible building elements:
 - a) 75 Gold Batts R1.5 at 8.76kg/m³ density.
 - b) 75 Gold Batts R2.0 at 17.3kg/m³ density.
 - c) 90 Gold Batts R2.0 at 10.4kg/m³ density.
 - d) 90 Gold Batts R2.5 at 20.5kg/m³ density.
 - e) 90 Gold Batts R2.7 at 33.1kg/m³ density.

Building classification/s:

- Volume 1 – Class 2 to Class 9 buildings
Volume 2 – Class 1 and Class 10(a) buildings

7. CEMINTEL Barestone™ Wall Cladding System shall be used for its intended purpose. For further information on limited applications of the product, refer to the following Cemintel Barestone™ guides as relevant:
 - a) CEMINTEL BARESTONE™ EXTERNAL - Design & Installation guide 12/2023 REV02, and
 - b) CEMINTEL BARESTONE™ INTERNAL - Internal Wall Installation 05/2023.
8. CEMINTEL Barestone™ Wall Cladding System has been tested to the requirements of AS/NZS 4284:2018 in accordance with the NCC verification methods and has been determined to achieve compliance with F3P1 and H2P2 when installed as a pressure equalised system in applications where an external wall of the building also:
 - a) has a risk score of 20 or less determined in accordance with Table F3V1a or H2V1a, of the BCA, as appropriate; and
 - b) has a maximum Design Ultimate Limit State wind pressure of ± 2.5 kPa using the Cemintel soft air barrier system incorporating Enviroseal CW-IT wall wrap; and
 - c) has a maximum Design Serviceability Limit State wind pressure of +2.5 kPa using a Cemintel Rigid Air Barrier system (Cemintel 6mm thick fibre cement RAB sheet); and
 - d) has a maximum Design Serviceability Limit State wind pressure of +1.19 kPa and -1.79 kPa using Enviroseal CW when not detailed as an air barrier.

Other wall wraps may also be used, provided they have equivalent or better strength properties than Enviroseal CW / CW-IT when determined in accordance with AS/NZS 4200.1:2017.

9. CEMINTEL Barestone™ Wall Cladding 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/NZS 1170.2 including cyclonic zones when fixed to steel framing with Cemintel Rigid Air Barrier. Construction details and fixing must follow the relevant details contained within the System Engineering section of CEMINTEL BARESTONE™-EXTERNAL - Design & Installation Guide-12/2023 VER02.
10. CEMINTEL Barestone™ Wall Cladding System is not certified for either energy efficiency or acoustic performance.
11. CEMINTEL Barestone™ Wall Cladding System is suitable for use on buildings located in a designated Bushfire-Prone Area subject to a Bushfire Attack Level (BAL) up to and including BAL-40 when constructed in accordance with AS 3959:2018 (subject to state and territory variations) for a Class 1 building, a Class 2 building, a Class 3 building, or a Class 10a building or deck immediately adjacent or connected to such a building or part.

12. In NSW, CEMINTEL Barestone™ Wall Cladding System is suitable for use on buildings located in a designated Bushfire-Prone Area:
 - a) For a Class 1 building, a Class 2 building, a Class 3 building, a Class 4 part of a building, or a Class 10a building or deck immediately adjacent or connected to such a building or part when constructed in accordance with AS 3959:2018 except as amended by Planning for Bush Fire Protection for BAL-40. Seek guidance from your appropriately qualified bushfire expert for additional consideration and assessment.
 - b) For a Class 9 buildings located in an area subject to a Bushfire Attack Level (BAL) not exceeding BAL-12.5 determined in accordance with AS 3959.
13. In VIC, CEMINTEL Barestone™ Wall Cladding System is suitable for use on Class 9(a) healthcare buildings, Class 9(b) early childhood or school buildings, Class 9(c) residential care buildings or Class 4 parts of buildings associated with the preceding classifications that are in designated bushfire prone areas subject to a Bushfire Attack Level (BAL) not exceeding BAL-12.5 determined in accordance with AS 3959:2018.
14. All flashing including inter-storey junction must be metal flashing.

Scope of certification: The CodeMark Scheme is a building product certification scheme. The rules of the Scheme are available at the ABCB website www.abcb.gov.au. This Certificate of Conformity is to confirm that the relevant requirements of the Building Code of Australia (BCA) as claimed against have been met. The responsibility for the product performance and its fitness for the intended use remain with the certificate holder. The certification is not transferrable to a manufacturer not listed on Appendix A of this certificate.

Disclaimer: The Scheme Owner, Scheme Administrator and Scheme Accreditation Body do not make any representations, warranties or guarantees, and accept no legal liability whatsoever arising from or connected to, the accuracy, reliability, currency or completeness of any material contained within this certificate; and the Scheme Owner, Scheme Administrator and Scheme Accreditation Body disclaim 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 product(s) referred to in this certificate.

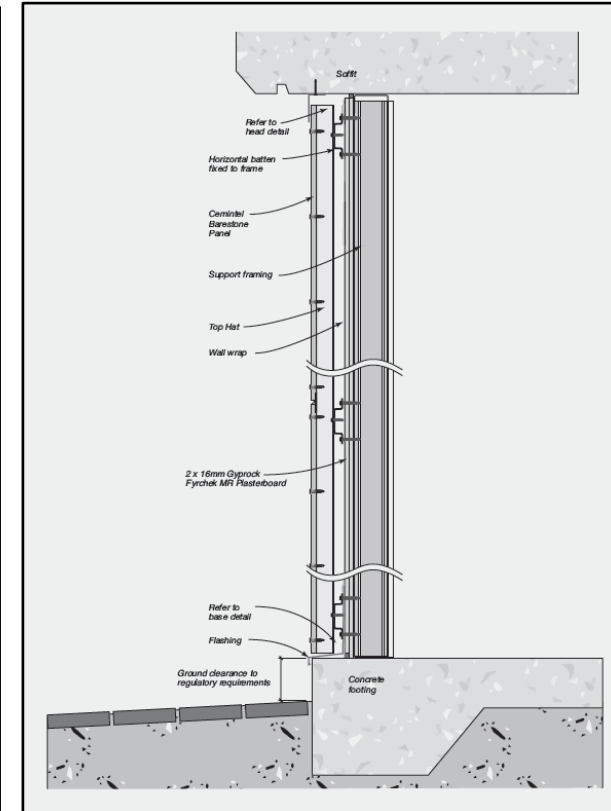
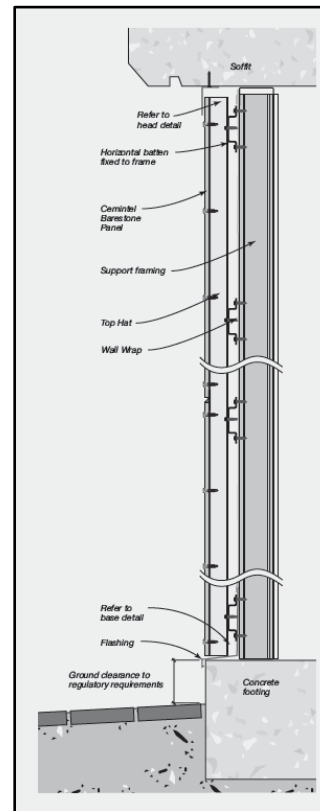
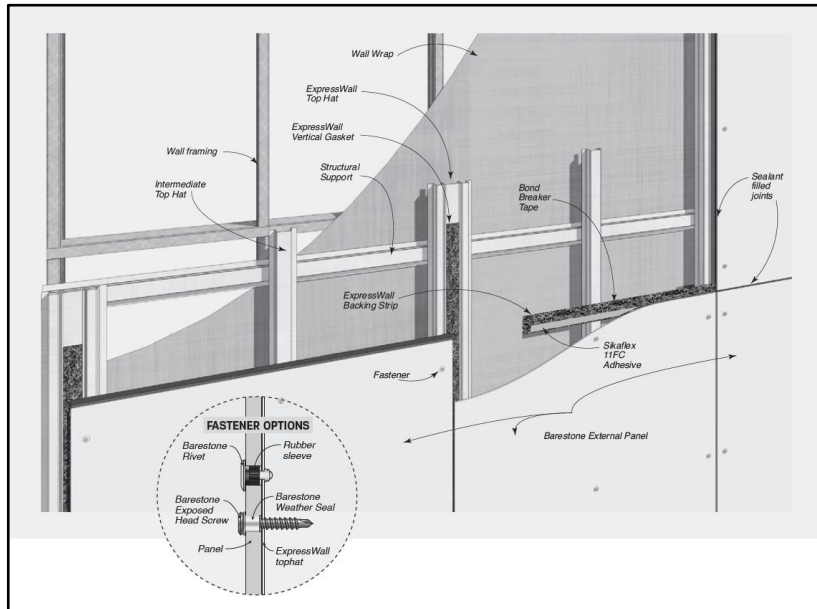
APPENDIX A – PRODUCT TECHNICAL DATA

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.

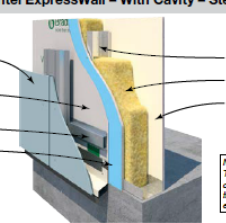


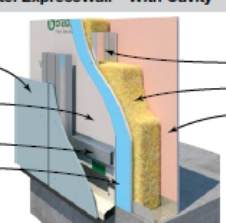
A3 Product specification

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

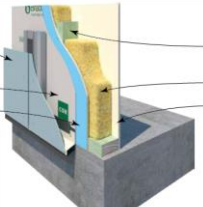
Thickness (mm)	Width (mm)	Length (mm)	Mass (Nominal)	Panels per pack
9	1200	2400	17.8kg/m ²	20
9	1200	3000	17.8kg/m ²	20

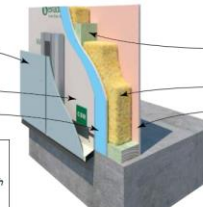
The following System Specification tables are extracts from Section F – External Wall Systems pages F13, F14, F28, and F29 of the GYPROCK® THE RED BOOK™ 1 publication.

SYSTEM SPECIFICATIONS			Cemintel ExpressWall – With Cavity – Steel Frame					F13
 <p>Cemintel ExpressPanel, Barestone or Surround system.</p> <p>Wall wrap or 6mm Cemintel Rigid Air Barrier.</p> <p>15mm top hat.</p> <p>Lining material as per system table to external side.</p> <p>Steel studs at 600mm maximum centres.</p> <p>Cavity insulation as per system table.</p> <p>Lining material as per system table to internal side.</p> <p><small>NOTE: Acoustic performance valid for studs with 0.75 BMT. The system thermal R-values provided have been calculated based on a thermal transmission path through the wall cavity and does not allow for the effects of thermal bridging.</small></p>								
SYSTEM SPECIFICATION			ACOUSTIC REPORT: PKA-A119					
FRL Report	SYSTEM N°	WALL LININGS	STUD DEPTH mm		70	90		
			CAVITY INFILL (Refer to TABLE B6)	R _w / R _{w+Ctr}	R _{t(sum)} / R _{t(win)}	R _w / R _{w+Ctr}	R _{t(sum)} / R _{t(win)}	
- / - / -	CSR 5327	EXTERNAL WALL SIDE • Nil INTERNAL WALL SIDE • 1 x 13mm Gyprock Standard Plasterboard.	(b) 90 Gold Batts R2.0 (c) 90 Gold Batts R2.5 (d) 75 Gold Batts R2.0	- - 48/39	- - 2.1/2.2	49/40 50/41 49/40	2.1/2.3 2.6/2.8 2.3/2.4	
		Min. Wall Thickness mm	141		161			
30/30/30 (from outside only) FC 12946	CSR 5332	EXTERNAL WALL SIDE • 1 x 13mm Gyprock Fyrchek MR Plasterboard. INTERNAL WALL SIDE • 1 x 10mm Gyprock Plus Plasterboard.	(b) 90 Gold Batts R2.0 (c) 90 Gold Batts R2.5 (d) 75 Gold Batts R2.0	- - 42/31	- - 2.1/2.3	43/32 44/33 43/32	2.2/2.4 2.6/2.9 2.3/2.5	
		Min. Wall Thickness mm	151		171			
30/30/30 (from outside only) FC 12946	CSR 5340	EXTERNAL WALL SIDE • 1 x 16mm Gyprock Fyrchek MR Plasterboard. INTERNAL WALL SIDE • 1 x 6mm CemintSeal Wallboard.	(b) 90 Gold Batts R2.0 (c) 90 Gold Batts R2.5 (d) 75 Gold Batts R2.0	- - 47/37	- - 2.1/2.2	48/38 49/39 48/38	2.2/2.4 2.6/2.9 2.3/2.5	
		Min. Wall Thickness mm	150		170			
60/60/60 (from outside only) FC 12946	CSR 5342	EXTERNAL WALL SIDE • 1 x 16mm Gyprock Fyrchek MR Plasterboard. INTERNAL WALL SIDE • 1 x 10mm Gyprock Plus Plasterboard.	(b) 90 Gold Batts R2.0 (c) 90 Gold Batts R2.5 (d) 75 Gold Batts R2.0	- - 43/32	- - 2.1/2.3	44/33 45/34 44/33	2.2/2.4 2.6/2.9 2.3/2.5	
		Min. Wall Thickness mm	154		174			
60/60/60 (from outside only) FC 12946	CSR 5343	EXTERNAL WALL SIDE • 1 x 16mm Gyprock Fyrchek MR Plasterboard. INTERNAL WALL SIDE • 1 x 10mm Gyprock Aquachek Plasterboard.	(b) 90 Gold Batts R2.0 (c) 90 Gold Batts R2.5 (d) 75 Gold Batts R2.0	- - 46/36	- - 2.1/2.3	47/36 48/37 47/36	2.2/2.4 2.6/2.9 2.3/2.5	
		Min. Wall Thickness mm	154		174			

SYSTEM SPECIFICATIONS			Cemintel ExpressWall – With Cavity – Steel Frame					F14
 <p>Cemintel ExpressPanel, Barestone or Surround system.</p> <p>Wall wrap or 6mm Cemintel Rigid Air Barrier.</p> <p>15mm top hat.</p> <p>Lining material as per system table to external side.</p> <p>Steel studs at 600mm maximum centres.</p> <p>Cavity insulation as per system table.</p> <p>Lining material as per system table to internal side.</p> <p><small>NOTE: Acoustic performance valid for studs with 0.75 BMT. The system thermal R-values provided have been calculated based on a thermal transmission path through the wall cavity and does not allow for the effects of thermal bridging. ‡ Unique height restrictions apply. Refer to The Red Book 3, height selection tables.</small></p>								
SYSTEM SPECIFICATION			ACOUSTIC REPORT: PKA-A119					
FRL Report	SYSTEM N°	WALL LININGS	STUD DEPTH mm		70	90		
			CAVITY INFILL (Refer to TABLE B6)	R _w / R _{w+Ctr}	R _{t(sum)} / R _{t(win)}	R _w / R _{w+Ctr}	R _{t(sum)} / R _{t(win)}	
60/60/60 – /90/90 (from both sides) FC 12946	CSR 5345	EXTERNAL WALL SIDE • 1 x 16mm Gyprock Fyrchek MR Plasterboard. INTERNAL WALL SIDE • 1 x 16mm Gyprock Fyrchek Plasterboard.	(b) 90 Gold Batts R2.0 (c) 90 Gold Batts R2.5 (d) 75 Gold Batts R2.0	- - 49/39	- - 2.2/2.3	50/40 51/41 50/40	2.2/2.4 2.6/2.9 2.4/2.6	
		Min. Wall Thickness mm	180		180			
90/90/90 (from outside only) FC 12946	CSR 5346	EXTERNAL WALL SIDE • 2 x 13mm Gyprock Fyrchek MR Plasterboard. INTERNAL WALL SIDE • 1 x 10mm Gyprock Plus Plasterboard.	(b) 90 Gold Batts R2.0 (c) 90 Gold Batts R2.5 (d) 75 Gold Batts R2.0	- - 47/36	- - 2.2/2.3	48/37 49/38 48/37	2.2/2.4 2.6/2.9 2.4/2.6	
		Min. Wall Thickness mm	164		184			
120/120/120 (from outside only) FC 12946	CSR 5347	EXTERNAL WALL SIDE • 2 x 16mm Gyprock Fyrchek MR Plasterboard. INTERNAL WALL SIDE • 1 x 10mm Gyprock Plus Plasterboard.	(b) 90 Gold Batts R2.0 (c) 90 Gold Batts R2.5 (d) 75 Gold Batts R2.0	- - 48/37	- - 2.2/2.4	49/38 50/39 49/38	2.2/2.4 2.6/2.9 2.4/2.6	
		Min. Wall Thickness mm	170		190			
120/120/120 – /180/180‡ (from both sides) FC 12946	CSR 5349	EXTERNAL WALL SIDE • 2 x 16mm Gyprock Fyrchek MR Plasterboard. INTERNAL WALL SIDE • 2 x 16mm Gyprock Fyrchek Plasterboard.	(b) 90 Gold Batts R2.0 (c) 90 Gold Batts R2.5 (d) 75 Gold Batts R2.0	- - 54/45	- - 2.3/2.5	55/46 56/47 55/46	2.2/2.4 2.6/2.9 2.6/2.7	
		Min. Wall Thickness mm	194		212			

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SYSTEM SPECIFICATIONS			Cemintel ExpressWall – With Cavity – Timber Frame						F28	
 <p>Cemintel ExpressPanel, Barestone or Surround system.</p> <p>Timber studs at 600mm maximum centres.</p> <p>Wall wrap.</p> <p>Lining material as per system table to external side.</p> <p>Cavity insulation as per system table.</p> <p>Lining material as per system table to internal side.</p> <p><small>NOTE: Acoustic performance valid for 35mm wide studs at 600mm centres. The system thermal R-values provided have been calculated based on a thermal transmission path through the wall cavity and does not allow for the effects of thermal bridging. *ACR = Axial Capacity Reduction.</small></p>			ACOUSTIC REPORT: PKA-A119							
FRL Report	SYSTEM N°	WALL LININGS	STUD DEPTH mm		70		90			
			CAVITY INFILL (Refer to TABLE B6)	R _w / R _w +C _{tr}	R _t (sum) / R _t (win)	R _w / R _w +C _{tr}	R _t (sum) / R _t (win)			
30/30/30 (from outside only) FC 12969	CSR 5851	EXTERNAL WALL SIDE	(b) 90 Gold Batts R2.0	-	-	46/36	2.2/2.4			
		INTERNAL WALL SIDE	(c) 90 Gold Batts R2.5	-	-	47/37	2.6/2.9			
		INTERNAL WALL SIDE	(d) 75 Gold Batts R2.0	45/35	2.1/2.2	46/36	2.3/2.5			
		Min. Wall Thickness mm		135		155				
30/30/30 (from both sides) FC 12969	CSR 5854	EXTERNAL WALL SIDE	(b) 90 Gold Batts R2.0	-	-	45/34	2.2/2.4			
		INTERNAL WALL SIDE	(c) 90 Gold Batts R2.5	-	-	46/35	2.6/2.9			
		INTERNAL WALL SIDE	(d) 75 Gold Batts R2.0	44/33	2.1/2.3	45/34	2.3/2.5			
		Min. Wall Thickness mm		139		159				
90/90/90 (from outside only) FC 12969	CSR 5857	EXTERNAL WALL SIDE	(b) 90 Gold Batts R2.0	-	-	46/35	2.2/2.4			
		INTERNAL WALL SIDE	(c) 90 Gold Batts R2.5	-	-	47/36	2.6/2.9			
		INTERNAL WALL SIDE	(d) 75 Gold Batts R2.0	45/34	2.2/2.3	46/35	2.4/2.6			
		Min. Wall Thickness mm		149		169				
60/60/60* (from outside only) *ACR Group 2 FC 12969	CSR 5860	EXTERNAL WALL SIDE	(b) 90 Gold Batts R2.0	-	-	43/32	2.2/2.4			
		INTERNAL WALL SIDE	(c) 90 Gold Batts R2.5	-	-	44/33	2.6/2.9			
		INTERNAL WALL SIDE	(d) 75 Gold Batts R2.0	42/31	2.1/2.3	43/32	2.3/2.5			
		Min. Wall Thickness mm		139		159				
60/60/60* (from outside only) *ACR Group 2 FC 12969	CSR 5862	EXTERNAL WALL SIDE	(b) 90 Gold Batts R2.0	-	-	45/34	2.2/2.4			
		INTERNAL WALL SIDE	(c) 90 Gold Batts R2.5	-	-	46/35	2.6/2.9			
		INTERNAL WALL SIDE	(d) 75 Gold Batts R2.0	44/33	2.1/2.3	45/34	2.3/2.5			
		Min. Wall Thickness mm		139		159				

SYSTEM SPECIFICATIONS			Cemintel ExpressWall – With Cavity – Timber Frame						F29	
 <p>Cemintel ExpressPanel, Barestone or Surround system.</p> <p>Timber studs at 600mm maximum centres.</p> <p>Wall Wrap.</p> <p>Lining material as per system table to external side.</p> <p>Cavity insulation as per system table.</p> <p>Lining material as per system table to internal side.</p> <p><small>NOTE: Acoustic performance valid for 35mm wide studs at 600mm centres. The system thermal R-values provided have been calculated based on a thermal transmission path through the wall cavity and does not allow for the effects of thermal bridging. *ACR = Axial Capacity Reduction.</small></p>			ACOUSTIC REPORT: PKA-A119							
FRL Report	SYSTEM N°	WALL LININGS	STUD DEPTH mm		70		90			
			CAVITY INFILL (Refer to TABLE B6)	R _w / R _w +C _{tr}	R _t (sum) / R _t (win)	R _w / R _w +C _{tr}	R _t (sum) / R _t (win)			
60/60/60 (from both sides) FC 12969	CSR 5865	EXTERNAL WALL SIDE	(b) 90 Gold Batts R2.0	-	-	47/37	2.2/2.4			
		INTERNAL WALL SIDE	(c) 90 Gold Batts R2.5	-	-	48/38	2.6/2.9			
		INTERNAL WALL SIDE	(d) 75 Gold Batts R2.0	46/36	2.2/2.3	47/37	2.4/2.6			
		Min. Wall Thickness mm		145		165				
120/120/120 (from outside only) FC 12969	CSR 5872	EXTERNAL WALL SIDE	(b) 90 Gold Batts R2.0	-	-	47/36	2.2/2.4			
		INTERNAL WALL SIDE	(c) 90 Gold Batts R2.5	-	-	48/37	2.6/2.9			
		INTERNAL WALL SIDE	(d) 75 Gold Batts R2.0	46/35	2.2/2.4	47/36	2.4/2.6			
		Min. Wall Thickness mm		155		175				
120/120/120 (from both sides) FC 12969	CSR 5874	EXTERNAL WALL SIDE	(b) 90 Gold Batts R2.0	-	-	52/43	2.2/2.4			
		INTERNAL WALL SIDE	(c) 90 Gold Batts R2.5	-	-	53/44	2.6/2.9			
		INTERNAL WALL SIDE	(d) 75 Gold Batts R2.0	51/42	2.3/2.5	52/43	2.6/2.7			
		Min. Wall Thickness mm		177		197				



Certificate of Conformity

A4 Manufacturer and manufacturing plant(s)

A5 Installation requirements

Refer to Page 3 of this certificate and the following:

1. CEMINTEL BARESTONE™ EXTERNAL - Design & Installation Guide 12/2023 REV02, and
2. CEMINTEL BARESTONE™ INTERNAL – Internal Wall Installation 05/2023.

A6 Other relevant technical data

- Technical Datasheets for Bradford Thermosteel™ Wall Wrap, Bradford Thermosteel™ Firespec Wall Wrap, Enviroseal ProctorWrap (CW / CW-IT) Wall Wrap, and Enviroseal ProctorWrap (RW) Wall Wrap with nominal thickness <1.0mm for all products.

APPENDIX B – EVALUATION STATEMENTS

B1 Evaluation methods

The system has been assessed as complying with the identified Performance Requirements of the NCC 2022 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 – A2G2(2)(a)/A5G3(1)(d) – A report issued by an Accredited testing Laboratory – Cyclone Testing Station, James Cook University (NATA accreditation No. 14937)
- Volumes 1 & 2 – A2G2(2)(a)/A5G3(1)(e) – A report from a professional engineer (David Beneke Consulting).

2. Weatherproofing assessment:

- Volumes 1 & 2 – A2G2(2)(a)/A5G3(1)(d) – A report issued by an Accredited testing Laboratory – Ian Bennie and Associates (NATA accreditation No. 2371)
- Volumes 1 & 2 – A2G2(2)(a)/A5G3(1)(e) – A report from an appropriately qualified person (XAVIER KNIGHT).

3. Fire Resistance assessment:

- Volumes 1 & 2 – A2G3(2)(a)/A5G3(1)(d) – An assessment report issued by an Accredited testing Laboratory – BRANZ Ltd (IANZ accreditation No. 37).

4. Non-Combustibility assessment:

A. Barestone Fibre Cement (General Concessions)

- Volumes 1 & 2 – A2G3(2)(a)/A5G3(1)(f) – Another form of documentary evidence – by exemption/product specification.

B. Sarking-type material

- Volumes 1 & 2 – A2G3(2)(a)/A5G3(1)(d) – A report issued by an Accredited testing Laboratory – Insulation Research Laboratory (NATA accreditation No. 993).
- Volumes 1 & 2 – A2G3(2)(a)/A5G3(1)(d) – A report issued by an Accredited testing Laboratory – AWTA Product Testing (NATA accreditation No. 1356).

C. Insulation material

- Volumes 1 & 2 – A2G3(2)(a)/A5G3(1)(d) – A report issued by an Accredited testing Laboratory – Insulation Research Laboratory (NATA accreditation No. 993).
- Volumes 1 & 2 – A2G3(2)(a)/A5G3(1)(e) – An assessment report from an appropriately qualified person – CSIRO.

5. Fire Hazard Properties assessment:

- Volume 1 – A2G3(2)(a)/A5G3(1)(e) – An assessment report from an appropriately qualified person – Warringtonfire Australia Pty Ltd.

6. Construction in Bushfire Prone Areas assessment:

- Volumes 1 & 2 – A2G3(2)(a)/A5G3(1)(f) – Another form of documentary evidence (assessment against specifications in the referenced document – AS 3959:2018).

B2 Reports

Evaluation methods	Related Supporting Evidence as listed below
Structural Assessment	Numbers 1 – 3
Weatherproofing Assessment	Numbers 4 – 6
Fire Resistance assessment	Numbers 7 – 8
Non-Combustibility	Numbers 9 – 17
Fire Hazard Properties assessment	Number 18
Resistance to Bushfire Construction assessment	Number 19

Structure

- 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) and connection testing for resistance to simulated cyclic wind load, carried out in accordance with AS 4040.3.
- David Beneke Consulting, Engineering Report for Certification of CSR ExpressWall Façade System, Report No. 2013-28-LO-163 Revision 15 (dated 18 March 2023).**

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.
- 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 batten carried out in accordance with AS 4040.3.

Weatherproofing

- Ian Bennie and Associates, Test Report for Air Infiltration, Water Penetration and Structural of Cemintel Creative Façade System, Report No. 2016-108-S1-R3 (updated 31 October 2023).**

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/NZS 4284:2008.
- Ian Bennie and Associates, Test Report for Ultimate Load Capacity, Report No. 2016-066-S2 (dated 8 November 2016).**

This document contains the test results of Bradford Enviroseal ProctorWrap CW-IT without external cladding to determine the ultimate load capacity (Structural ULS) of the wrap alone carried out in accordance with AS/NZS 4284:2008.

6. XAVIER KNIGHT, Weatherproofing Assessment for Cemintel Exposed Joint External Wall Systems (Surround, Barestone, ExpressPanel), XK230919 Revision 03 (dated 19 September 2023).

This document confirms the compliance of this product with AS 4284:2008, based on the test results of Report Nos. 2016-108-S1 & 2016-066-S2, by Ian Bennie and Associates.

Fire Resistance

7. BRANZ, Assessment Report for Fire Resistance of CSR Steel Framed Wall Systems, Report No. FC12946-01-08 Issue 8 (dated: 23 February 2023).

This document contains the fire assessment results of the CSR steel framed system for resistance to fire, carried out in accordance with AS 1530.4:2014.

8. BRANZ, Assessment Report for Fire Resistance of CSR Timber Framed Walls, Report No. FC12969-01 Issue 2 (dated: 5 October 2022).

This document contains the fire assessment results of the CSR timber framed system for resistance to fire, carried out in accordance with AS 1530.4:2014.

Non-Combustibility

A. Sarking-type material

9. 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 1530.2:1993 and returned a result of Flammability Index 1.

10. AWTA Product Testing, Test Report for Flammability Index of Enviroseal ProctorWrap (RW) Wall Wrap, Test No. 22-001559 (dated: 25 May 2022).

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.

11. AWTA Product Testing, Test Report for Flammability Index of Enviroseal ProctorWrap (CW) Wall Wrap, Test No. 22-001560 (dated: 20 May 2022).

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.

12. CSR Insulation Research Laboratory, Test Report for Flammability Index Assessment of Bradford Thermoseal™ Firespec Wall Wrap, Test Report NR-16213 (dated: 20 December 2016).

This test report provides the test results of testing Bradford Thermoseal™ Firespec Wall Wrap to AS 1530.2:1993 and returned a result of Flammability Index 0.

B. Insulation

13. CSIRO, Assessment Report for combustibility of Bradford Glasswool insulation batts, Assessment Number FCO-2812/4643 Revision B (dated: 16 December 2019).

This report provides an assessment of Bradford Glasswool insulation batts (density range of 6.3kg/m³ to 26.8kg/m³) and determined the product was not deemed combustible when tested to the requirements of AS 1530.1:1994.

14. CSR Insulation Research Laboratory, Combustibility Test of CSR Bradford Gold, Report No. NR-18006 (dated: 13 August 2018).

This report contains the results of testing 90mm CSR Bradford Gold™ R2.5 Wall Batt (mean density 20.5kg/m³) to EN ISO1182/AS 1530.1 and determined the product was not deemed combustible when tested to the requirements of AS 1530.1:1994.

15. CSR Insulation Research Laboratory, Combustibility Test of CSR Bradford Gold, Report No. NR-18007 (dated: 28 August 2018).

This report contains the results of testing 90mm CSR Bradford Gold™ R2.0 Wall Batt (mean density 10.4kg/m³) to EN ISO1182/AS 1530.1 and determined the product was not deemed combustible when tested to the requirements of AS 1530.1:1994.

16. CSR Insulation Research Laboratory, Combustibility Test of CSR Bradford Gold, Report No. NR-20004 (dated: 11 September 2020).

This report contains the results of testing 75mm CSR Bradford Gold™ R2.0 Wall Batt (mean density 17.3kg/m³) to EN ISO1182/AS 1530.1 and determined the product was not deemed combustible when tested to the requirements of AS 1530.1:1994.

17. CSR Insulation Research Laboratory, Combustibility Test of CSR Bradford Gold, Report No. NR-22112 (dated: 28 July 2022).

This report contains the results of testing 90mm CSR Bradford Gold™ R2.7 Wall Batt (mean density 33.11kg/m³) and determined the product was not deemed combustible when tested to the requirements of AS 1530.1:1994.

Fire Hazard Properties

18. Warringtonfire, Assessment Report for Group Number and Smoke Growth Rate Index (SMOGRARC), Report No. 45759 Revision 12 (dated 26 October 2022).

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 $SMOGR_{ARC} \leq 0.5m^2s^{-2} \times 1000$ and CSR Cemintel fibre cement panels (including Barestone 9-12mm) are likely to achieve Group 1 classification and $SMOGR_{ARC} \leq 0.2m^2s^{-2} \times 1000$ if tested in accordance with AS ISO 9705:2003 (R2016) and assessed in accordance with AS5637.1:2015.

Resistance to Bushfire Attack

1. Cemintel® Product Guide for Bushfire-Prone Areas (dated November 2023).

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.