Certificate of Conformity

Global-Mark Pty Ltd, Suite 4.07, 32 Delhi Road, North Ryde NSW 2113, Australia

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Certificate Holder:

CSR Building Products Ltd – AFS Systems Pty Ltd
Triniti 3, 39 Delhi Rd,
North Ryde, NSW 2113
www.afsformwork.com.au
Tel: 1300 727 237

Certificate number: CM30062 Rev 8

THIS TO CERTIFY THAT

AFS LOGICWALL®

Type and/or use of product:

AFS LOGICWALL is a permanent formwork system for internal and external load-bearing and non-load bearing reinforced concrete walls with structural, fire, weatherproofing, acoustic and thermal performance characteristics.

AFS LOGICWALL® types are as follows, the numerical values representing the thickness of the wall in millimetres, and "D" indicating double layer of reinforcing steel:

1. LW120
2. LW150
3. LW162
4. LW200
5. LW200D
6. LW262D

Description of product:

AFS LOGICWALL comprises:

- Galvanised cold-formed steel studs at 146mm centres, the studs having large lipped penetrations in their web element to facilitate placement of reinforcing steel and flow and subsequent bond of concrete fill.
- CSR Cemintel 6mm AFS Formwork Board bonded each side to the flanges of the studs.
- Reinforcing steel.
- Concrete fill.

COMPLIES WITH THE FOLLOWING BCA PROVISIONS AND STATE OR TERRITORY VARIATION(S) — **BCA 2022**

	Volume One		Volume Two including ABCB Housing Provisions	
Performance Requirement(s):	F3P1	Weatherproofing	H2P2	Weatherproofing

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.
The purpose of Global-Mark **construction site audits** is to confirm the practicability of installing the product; and to confirm the appropriateness and accuracy of installation instructions
In placing **the CodeMark mark** on the product/system, the certificate holder makes a declaration of compliance with the certification standard(s) and confirms that the product is identical to the product certified herein. In issuing this Certificate of Approval Global-Mark has relied on the **expertise of external bodies** (laboratories, and technical experts).

Herve Michoux
Global-Mark Managing Director

Peter Gardner
Unrestricted Building Certifier

Date of issue: 09/02/2025

Date of expiry: 21/01/2030

		F7P2	Sound Transmission through walls	H4P6	Sound insulation
		F7P4	Sound transmission through walls in residential care buildings		
		J1P1	Energy use	H6P1	Energy efficiency – Building
	Deemed-to-Satisfy Provision(s):	B1D2	Resistance to actions	2.2.2	Resistance to actions
		B1D3	Determination of individual actions	2.2.3	Determination of individual actions
		B1D4(b)(i) & (i)	Determination of structural resistance of materials and forms of construction	2.2.4(c), (d)	Determination of structural resistance of materials and forms of construction
				3.4.1(2)	Requirements for termite management systems
		Specification 1	Fire resistance of building elements	Specification 1	Fire resistance of building elements
		C2D2 / Specification 5	Fire-resisting construction		
		C2D10(1), (2), (3), (4) & (6)(d)	Non-combustible building elements	H3D2(1)(d)	Fire hazard properties and non-combustible building elements
		C2D11(1)(b)	Fire hazard properties	9.2.3(2)	Construction of external walls
		C3D7(1)(a)	Vertical separation of openings in external walls	9.3.1(1)	Separating walls
		C4D15(2)(a)	Openings for service installations	9.3.2	Services in separating walls
		G5D3	Construction in bushfire prone areas – Protection - Residential buildings	H7D4	Construction in bushfire prone areas - Application
		G5D4	Protection – certain Class 9 buildings		
	State or territory variation(s):	NT F7P2	Sound transmission through walls	NT H4P6	Sound insulation
		NT F7P4	Sound transmission through walls in residential care buildings		
		NSW J1P1	Energy use	NSW H6P1	Building fabric
		NSW J1P5	Building fabric- Class 2 building and Class 4 parts of a building	NT H6P1	Building
		NSW NCC2019A1 NSW J(A)P1	Energy efficiency- Class 2 building and Class 4 parts	NSW NCC2019A1 NSW P2.6.1(A)	Building fabric

		TAS NCC2019A1 JP1	Energy use	TAS NCC2019A1 P2.6.1	Building
		WA B1D3	Determination of individual actions		
		NT B1D4(b)(i) & (i)	Determination of structural resistance of materials and forms of construction	WA 2.2.3	Determination of individual actions
		QLD B1D4(b)(i) & (i)	Determination of structural resistance of materials and forms of construction	WA 2.2.4(c) & (d)	Determination of structural resistance of materials and forms of construction
		WA B1D4(b)(i) & (i)	Determination of structural resistance of materials and forms of construction	NT 3.4.1(2)	Requirements for termite management systems
		SA C2D2(1),(3)&(4)	Fire-resisting construction		
		NSW C2D11(1)(b)	Fire hazard properties	NSW H7D4	Construction in bushfire prone areas – Application
		NSW G5D3	Construction in bushfire prone areas – Protection		
		NSW G5D4	Protection – Class 9 buildings used as special fir protection purpose		
		VIC G5D4	Protection – certain Class 9 buildings		

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

Limitations and conditions:	**Building classification/s:**
1. Volume One B1D3, Volume Two (+ Housing Provisions) H1P1(2) , 2.2.3 Actions as follows: a. Permanent actions b. imposed actions c. wind action d. earthquake action e. x f. liquid pressure action g. ground water action h. rainwater action i. earth pressure action j. differential movement k. time dependent effects l. thermal effects m. ground movement	Class 1, 2, 3, 4, 5, 6, 7, 8, 9 and 10

	n. construction activity actions o. termite actions with f, g, h, & i. requiring additional impervious waterproofing treatment, and o. as per Limitation 3.	
	2. Volume One WA B1D3 and Volume Two WA 2.2.3 Actions as follows: a. For a Class 7b building permanent actions, a notional permanent roof load of not less than 0.15kPa should be provided to support the addition of solar voltaic panels b. There are regional variations to AS/NZS1170.2:2021 for wind speeds, internal pressures and openings which must be complied with (refer to NCC 2022 WA Part B2).Volume One B1P2 and Volume Two H1P1(3) is satisfied by complying with AS 3600:2018 (including Amendment No.1 and 2) as specified in Deemed-to-Satisfy Provisions Volume One B1D4(b)(i) and Volume Two H1D4 respectively.	Class 1, 2, 3, 4, 5, 6, 7, 8, 9 and 10
	3. Volume One B1D4(b)(i)&(i) and Volume Two (+ Housing Provisions) 2.2.4(c) and 3.4.1(2) AFS LOGICWALL satisfies the requirement of Volume One B1D4(i)(i) and NCC Housing Provisions 2.2.4(c) and 3.4.1(2) being a primary building element that consists of a combination of materials considered not subject to termite attack: steel, concrete, and fibre-reinforced cement sheet.	Class 1, 2, 3, 4, 5, 6, 7, 8, 9 and 10
	4. Volume One Specification 1 As per NCC Volume One A5G5, the FRL of AFS LOGICWALL building elements has been determined in accordance with Specification 1 for compliance with the Deemed-to-Satisfy Provisions including C2D2 and Specification 5.	Class 2,3,4,5,6,7,8 and 9
	5. Volume One Specification 1 and C3D7(1)(a), and Volume Two (+ Housing Provisions) 9.2.3(2) and 9.3.1(1) Volume One Specification 1 and C3D7(1)(a), and NCC Housing Provisions 9.2.3(2) and 9.3.1(1) are satisfied in respect of the walls having fire resistance levels as follows: a. For LW120 and LW150 wall types constructed with the properties listed below, FRL 240/240/180: i. Maximum 3.0 m height ii. N12 reinforcing steel as follows: 1. Vertical at 400 mm centres and horizontal at 600 mm centres for LW120 2. Vertical and horizontal at 450 mm centres for LW150 iii. 32 MPa, 120 mm slump, 10 mm max. aggregate size concrete iv. Applied compressive load not exceeding: 1. 233 kN/m for LW120 2. 200 kN/m for LW150 b. For wall LW162 and LW200 wall types constructed with the properties listed below, FRL 240/240/240: i. Maximum 3.0 m height ii. N12 reinforcing steel, vertical at 450 mm centres and horizontal at 450 mm centres iii. 32 MPa, 120mm slump, 10 mm max. aggregate size concrete iv. Applied compressive load not exceeding 200 kN/m c. For LW120, LW150, LW162, LW200, LW200D and LW262D walls outside the scope of (a) and (b) above, the FRL shall be determined in accordance AS 3600:2018 (including Amendment No.1 and 2).	Class 1, 2, 3, 4, 5, 6, 7, 8, 9 and 10

	6. Volume One C2D10(6)(d) and Volume Two (+ Housing Provisions) H3D2(1)(d) In respect of the AFS Formwork Board fibre-cement boards, the Deemed-to-Satisfy Provisions Volume One C2D10(6)(d) and Volume Two H3D2(1)(d) permit use where a non-combustible material is required. The adhesive used to fix the AFS Formwork Board to the steel studs is deemed to be exempt from the non-combustibility requirements under C2D10(4)(p).	Class 1, 2, 3, 4, 5, 6, 7, 8, 9 and 10
	7. Volume One C2D11 The fire hazard properties of AFS Formwork Board are as follows: a. Fire hazard indices: Ignitability Index – 0 Spread of Flame Index – 0 Heat Evolved Index – 0 Smoke Developed Index – 1 b. Group Number – 1 $SMOGRA_{RC}$ $0.2m^2/s^2$ (x1000)	Class 2,3,4,5,6,7 and 9
	8. Volume One F3P1 and Volume Two (+ Housing Provisions) H2P2 Volume One F3P1 in respect of weatherproofing is satisfied for serviceability wind pressures up to +0.68 kPa / -1.27 kPa. Volume Two H2P2 in respect of weatherproofing is satisfied for serviceability wind pressure no greater than for Wind Class N3 in accordance with AS 4055:2021.	Class 1, 2, 3, 4, 5, 6, 7, 8, 9 and 10
	9. Volume One G5D3 and Volume Two (+ Housing Provisions) H7D4 In designated bushfire prone areas subject to Bushfire Attack up to and including BAL-FZ, when the building is constructed in accordance with AS3959: 2018 including Amendment 1 & 2 for the bushfire level attack level considered, AFS LOGICWALL® is permitted for use.	Class 1, 2, 3 & 10a or deck immediately adjacent or connected to building Class 1, 2 or 3
	10. Volume One– NSW G5D3 In designated bushfire prone areas subject to Bushfire Attack Level BAL-Low, BAL-12.5, BAL-19 and BAL-29, determined in accordance with the Planning for Bush Fire Protection 2019 including addendum November 2022, when the building is constructed in accordance with AS3959: 2018 including Amendment 1 & 2 except as modified by Planning for Bush Fire Protection 2019 including addendum November 2022, AFS LOGICWALL® is permitted for use. The compliance assessment of the certified system is limited to sections 7.5 and 8.3.2 of the Planning for Bush Fire Protection 2019 including addendum November 2022. Site specific conditions arising from: - the development consent following consultation with the NSW Rural Fire Service under section 4.14 of the Environmental Planning and Assessment Act 1979 if required, or - the development consent with a bushfire safety authority issued under section 100B of the Rural Fires Act 1997 for the purposes of integrated development have not been considered for the compliance assessment.	Class 2, 3, 4 part of a building & 10a building or deck immediately adjacent or connected to building Class 2, 3 or Class 4 part of a building

	11. Volume One – NSW G5D4 In designated bushfire prone areas subject to a Bushfire Attack Level (BAL) not exceeding BAL—12.5, determined in accordance with Planning for Bush Fire Protection 2019 including addendum November 2022, when the building is constructed in accordance with 1) For class 9 building, 43, except as modified by Planning for Bush Fire Protection 2019 including addendum November 2022, or 2) For class 10a building or deck AS3959: 2018 including Amendment 1 & 2 except as modified by Planning for Bush Fire Protection 2019 including addendum November 2022, and S43C13 AFS LOGICWALL® is permitted for use. The compliance assessment of the certified system is limited to sections 7.5 and 8.3.2 of the Planning for Bush Fire Protection 2019 including addendum November 2022. Site specific conditions arising from the development consent with a bushfire safety authority issued under section 100B of the Rural Fires Act 1997 for the purposes of integrated development have not been considered for the compliance assessment.	Class 9 building that is a special fire protection purpose; and a Class 10a building or deck immediately adjacent or connected to such building
	12. Volume One – VIC G5D4 In Bushfire prone areas, when the building is constructed in accordance with 43 AFS LOGICWALL is permitted for use as external wall cladding only in buildings subject to Bushfire Attack Level BAL-Low, BAL-12.5. For construction in BAL-29, BAL-40 and BAL-FZ, fall outside the scope of this certification.	Class 9a, 9b, 9c and 10a or deck immediately connected or adjacent to a Class 9a, 9b or 9c building and Class 4 associated with Class 9a, 9b or 9c
	13. Volume Two (+ Housing Provisions)– NSW H7D4 In designated bushfire prone areas subject to Bushfire Attack Level BAL-Low, BAL-12.5, BAL-19 and BAL-29 determined in accordance with the Planning for Bush Fire Protection 2019 including addendum November 2022, when the building is constructed in accordance with AS3959: 2018 including Amendment 1 & 2 except as modified by Planning for Bush Fire Protection 2019 including addendum November 2022, AFS LOGICWALL® is permitted for use. The compliance assessment of the certified system is limited to sections 7.5 and 8.3.2 of the Planning for Bush Fire Protection 2019 including addendum November 2022. Site specific conditions arising from: - the development consent following consultation with the NSW Rural Fire Service under section 4.14 of the Environmental Planning and Assessment Act 1979 if required, or - the development consent with a bushfire safety authority issued under section 100B of the Rural Fires Act 1997 for the purposes of integrated development have not been considered for the compliance assessment..	Class 1 & 10a building or deck associated with a building class 1
	14. Volume One J1P1, NSW J1P1, NSW J1P5 and Volume Two (+ Housing Provisions) H6P1 In respect of Volume One J1P1, NSW J1P1, NSW J1P5 and Volume Two H6P1, wall configurations shown in AFS Logicwall Design & Installation Guide, December 2023 Edition, Section G contribute to the thermal resistance of the building fabric, thereby contributing to those requirements as follows: a. R-Value for basic AFS Logicwall element, determined in accordance with AS/NZS 4859.1:2018 (including Amendment No.1) not including air-films, air-spaces and additional insulation and linings as follows:	Class 1, 2, 3, 4, 5, 6, 7, 8, 9 and 10

	i. LW120 – R 0.123 m^2.K/W ii. LW150 – R 0.144 m^2.K/W iii. LW162 – R 0.152 m^2.K/W iv. LW200 – R 0.179 m^2.K/W v. LW262 – R 0.222m^2.K/W b. all wall types having a surface density in excess of 220kg/m^3.	
	15. Volume 1 – NSW NCC2019A1 NSW J(A)P1 and Volume 2 (+ Housing Provisions) – NSW NCC2019A1 NSW P2.6.1(A) In respect of Volume One J1P1, NSW J1P1, NSW J1P5 and Volume Two H6P1, wall configurations shown in AFS Logicwall Design & Installation Guide, December 2023 Edition, Section G contribute to the thermal resistance of the building fabric, thereby contributing to those requirements as follows: a. R-Value for basic AFS Logicwall element, determined in accordance with AS/NZS 4859.1:2018 (including Amendment No.1) not including air-films, air-spaces and additional insulation and linings as follows: i. LW120 – R 0.123 m^2.K/W ii. LW150 – R 0.144 m^2.K/W iii. LW162 – R 0.152 m^2.K/W iv. LW200 – R 0.179 m^2.K/W v. LW262 – R 0.222 m^2.K/W b. all wall types having a surface density in excess of 220kg/m^3.	Class 1,2, 4 and 10
	16. Volume One NT J1P1 For a Class 2 building and Class 4 part of a building, Section J is replaced with Section J of BCA 2009. For Class 3 and Class 5-9 buildings, Section J of NCC 2022 does not apply and from 1 October 2023 Section J of NCC 2019 applies.	Class 2, 3, 4, 5, 6, 7, 8 and 9

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.

A3 Product

Full product is contained in AFS Logicwall Design & Installation Guide, December 2023 Edition.

Product selection, and incorporation into the building design, shall be made by a professional Architect or Engineer or other appropriately qualified person who:

1. Has qualifications and experience acceptable to the relevant approval authorities; and,
2. Has ready access to AFS Logicwall Design & Installation Guide, December 2023 Edition and AS 3600:2018 (including Amendment No.1 and 2).

A4 Manufacturer and manufacturing plant(s)

Lot 8 Lockyer Street, Goulburn, NSW, 2580

A5 Installation requirements

Refer to AFS Logicwall Design & Installation Guide, December 2023 Edition.

Product installation shall be carried out:

1. By an installer who is trained in the construction methodology of the AFS LOGICWALL® product.
2. In accordance with:
    a. AFS Logicwall Design & Installation Guide, December 2023 Edition.
    b. The project engineering plans and specifications.
    c. The project detailing documentation.
    d. The Inspection and Test Plan (ITP) developed for the project.

The installer shall issue a Certificate of Installation to the Certificate Holder.

The construction shall include the following:

1. Temporary bracing of the formwork systems as specified by the project structural engineer.
2. Coating in accordance with the specifications in Section F of AFS Logicwall Design & Installation Guide, December 2023 Edition, including adherence with the specified inspection and maintenance program for the site location.

A6 Other relevant technical data

Any referenced documents within the technical literature identified in Appendix A, A3 and Appendix A, A5.

APPENDIX B – EVALUATION STATEMENTS

B1 Evaluation methods

The following assessment methods have been used to determine compliance with BCA 2022:

Code Clause	Assessment Method(s)	Evidence of suitability	Evidence reference in B2
Volume One			
F3P1	Volume One A2G2(2)(a)	Volume One A5G3(1)(e) – Certificate or report from a professional engineer or other appropriately qualified person	Item 11
F7P2	Volume One A2G2(2)(a)	Volume One A5G3(1)(d) – Report issued by an Accredited Testing Laboratory	Item 12
	Volume One A2G2(2)(a)	Volume One A5G3(1)(e) – Certificate or report from a professional engineer or other appropriately qualified person	Items 13 to 17
F7P4	Volume One A2G2(2)(a)	Volume One A5G3(1)(d) – Report issued by an Accredited Testing Laboratory	Item 12
		Volume One A5G3(1)(e) – Certificate or report from a professional engineer or other appropriately qualified person	Items 13 to 17
J1P1	Volume One A2G2(2)(a)	Volume One A5G3(1)(e) – Certificate or report from a professional engineer or other appropriately qualified person	Items 18 to 20
B1D2	Volume One A2G3(2)(a)	Volume One A5G3(1)(e) – Certificate or report from a professional engineer or other appropriately qualified person	Items 1 to 4
B1D3	Volume One A2G3(2)(a)	Volume One A5G3(1)(e) – Certificate or report from a professional engineer or other appropriately qualified person	Items 1 to 4
B1D4(b)(i) & (i)	Volume One A2G3(2)(a)	Volume One A5G3(1)(e) – Certificate or report from a professional engineer or other appropriately qualified person	Items 1 to 4
		Volume One A5G3(1)(f) – Another form of documentary evidence	Item 21
Specification 1	Volume One A2G3(2)(a)	Volume One A5G3(1)(d) – Report issued by an Accredited Testing Laboratory	Items 5 to 9
	Volume One A2G3(2)(a)	Volume One A5G3(1)(e) – Certificate or report from a professional engineer or other appropriately qualified person	Item 10
C2D2 / Specification 5	Volume One A2G3(2)(a)	Volume One A5G3(1)(d) – Report issued by an Accredited Testing Laboratory	Items 5 to 9
		Volume One A5G3(1)(e) – Certificate or report from a professional engineer or other appropriately qualified person	Item 10
C2D10(1), (2), (3), (4) & (6)(d)	Volume One A2G3(2)(a)	Volume One A5G3(1)(d) – Report issued by an Accredited Testing Laboratory	Items 5 to 9
		Volume One A5G3(1)(e) – Certificate or report from a professional engineer or other appropriately qualified person	Item 10
		Volume One A5G3(1)(f) – Another form of documentary evidence	Item 21
C2D11(1)(b)	Volume One A2G3(2)(a)	Volume One A5G3(1)(d) – Report issued by an Accredited Testing Laboratory	Items 8 and 9
C3D7(1)(a)	Volume One A2G3(2)(a)	Volume One A5G3(1)(d) – Report issued by an Accredited Testing Laboratory	Items 5 to 9
		Volume One A5G3(1)(e) – Certificate or report from a professional engineer or other appropriately qualified person	Item 10
C4D15(2)(a)	Volume One A2G3(2)(a)	Volume One A5G3(1)(d) – Report issued by an Accredited Testing Laboratory	Item 6

G5D3	Volume One A2G3(2)(a)	Volume One A5G3(1)(d) – Report issued by an Accredited Testing Laboratory	Items 5 to 9
		Volume One A5G3(1)(e) – Certificate or report from a professional engineer or other appropriately qualified person	Item 10
G5D4	Volume One A2G3(2)(a)	Volume One A5G3(1)(d) – Report issued by an Accredited Testing Laboratory	Items 5 to 9
		Volume One A5G3(1)(e) – Certificate or report from a professional engineer or other appropriately qualified person	Item 10
NT F7P2	Volume One A2G2(2)(a)	Volume One A5G3(1)(e) – Certificate or report from a professional engineer or other appropriately qualified person	Items 1 to 4
NT F7P4	Volume One A2G2(2)(a)	Volume One A5G3(1)(d) – Report issued by an Accredited Testing Laboratory	Item 12
		Volume One A5G3(1)(e) – Certificate or report from a professional engineer or other appropriately qualified person	Items 13 to 17
NSW J1P1	Volume One A2G2(2)(a)	Volume One A5G3(1)(e) – Certificate or report from a professional engineer or other appropriately qualified person	Items 18 to 20
NSW J1P5	Volume One A2G2(2)(a)	Volume One A5G3(1)(e) – Certificate or report from a professional engineer or other appropriately qualified person	Items 18 to 20
NSW NCC2019A1 NSW J(A)P1	Volume One A2G2(2)(a)	Volume One A5G3(1)(e) – Certificate or report from a professional engineer or other appropriately qualified person	Items 1 to 4
TAS NCC2019A1 JP1	Volume One A2G2(2)(a)	Volume One A5G3(1)(e) – Certificate or report from a professional engineer or other appropriately qualified person	Items 1 to 4
WA B1D3	Volume One A2G3(2)(a)	Volume One A5G3(1)(e) – Certificate or report from a professional engineer or other appropriately qualified person	Items 1 to 4
NT B1D4(b)(i) & (i)	Volume One A2G3(2)(a)	Volume One A5G3(1)(e) – Certificate or report from a professional engineer or other appropriately qualified person	Items 1 to 4
		Volume One A5G3(1)(f) – Another form of documentary evidence	Item 21
QLD B1D4(b)(i) & (i)	Volume One A2G3(2)(a)	Volume One A5G3(1)(e) – Certificate or report from a professional engineer or other appropriately qualified person	Items 1 to 4
		Volume One A5G3(1)(f) – Another form of documentary evidence	Item 21
WA B1D4(b)(i) & (i)	Volume One A2G3(2)(a)	Volume One A5G3(1)(e) – Certificate or report from a professional engineer or other appropriately qualified person	Items 1 to 4
		Volume One A5G3(1)(f) – Another form of documentary evidence	Item 21
SA C2D2(1),(3)&(4)	Volume One A2G3(2)(a)	Volume One A5G3(1)(d) – Report issued by an Accredited Testing Laboratory	Items 5 to 9
	Volume One A2G3(2)(a)	Volume One A5G3(1)(e) – Certificate or report from a professional engineer or other appropriately qualified person	Item 10
NSW C2D11	Volume One A2G3(2)(a)	Volume One A5G3(1)(d) – Report issued by an Accredited Testing Laboratory	Items 8 and 9
NSW G5D3	Volume One A2G3(2)(a)	Volume One A5G3(1)(d) – Report issued by an Accredited Testing Laboratory	Items 5 to 9
		Volume One A5G3(1)(e) – Certificate or report from a professional engineer or other appropriately qualified person	Item 10
NSW G5D4	Volume One A2G3(2)(a)	Volume One A5G3(1)(d) – Report issued by an Accredited Testing Laboratory	Items 5 to 9

		Volume One A5G3(1)(e) – Certificate or report from a professional engineer or other appropriately qualified person	Item 10
VIC G5D4	Volume One A2G3(2)(a)	Volume One A5G3(1)(d) – Report issued by an Accredited Testing Laboratory	Items 5 to 9
		Volume One A5G3(1)(e) – Certificate or report from a professional engineer or other appropriately qualified person	Item 10
Volume Two and ABCB Housing Provisions			
H2P2	Volume Two A2G2(2)(a)	Volume Two A5G3(1)(e) – Certificate or report from a professional engineer or other appropriately qualified person	Item 10
H4P6	Volume Two A2G2(2)(a)	Volume Two A5G3(1)(d) – Report issued by an Accredited Testing Laboratory	Item 12
		Volume Two A5G3(1)(e) – Certificate or report from a professional engineer or other appropriately qualified person	Items 13 to 17
H6P1	Volume Two A2G2(2)(a)	Volume Two A5G3(1)(e) – Certificate or report from a professional engineer or other appropriately qualified person	Items 18 to 20
2.2.2	Volume Two A2G3(2)(a)	Volume Two A5G3(1)(e) – Certificate or report from a professional engineer or other appropriately qualified person	Items 1 to 4
2.2.3	Volume Two A2G3(2)(a)	Volume Two A5G3(1)(e) – Certificate or report from a professional engineer or other appropriately qualified person	Items 1 to 4
2.2.4(c) & (d)	Volume Two A2G3(2)(a)	Volume One A5G3(1)(e) – Certificate or report from a professional engineer or other appropriately qualified person	Items 1 to 4
		Volume One A5G3(1)(f) – Another form of documentary evidence	Item 21
3.4.1(2)	Volume Two A2G3(2)(a)	Volume One A5G3(1)(e) – Certificate or report from a professional engineer or other appropriately qualified person	Items 1 to 4
		Volume One A5G3(1)(f) – Another form of documentary evidence	Item 21
Specification 1	Volume One A2G3(2)(a)	Volume One A5G3(1)(d) – Report issued by an Accredited Testing Laboratory	Items 5 to 9
		Volume One A5G3(1)(e) – Certificate or report from a professional engineer or other appropriately qualified person	Item 10
H3D2(1)(d)	Volume Two A2G3(2)(a)	Volume Two A5G3(1)(f) – Another form of documentary evidence	Item 21
9.2.3(2)	Volume Two A2G3(2)(a)	Volume Two A5G3(1)(d) – Report issued by an Accredited Testing Laboratory	Items 5 to 9
		Volume Two A5G3(1)(e) – Certificate or report from a professional engineer or other appropriately qualified person	Item 10
9.3.1(1)	Volume Two A2G3(2)(a)	Volume Two A5G3(1)(d) – Report issued by an Accredited Testing Laboratory	Items 5 to 9
		Volume Two A5G3(1)(e) – Certificate or report from a professional engineer or other appropriately qualified person	Item 10
9.3.2	Volume Two A2G3(2)(a)	Volume One A5G3(1)(d) – Report issued by an Accredited Testing Laboratory	Item 12
H7D4	Volume Two A2G3(2)(a)	Volume Two A5G3(1)(d) – Report issued by an Accredited Testing Laboratory	Items 5 to 9
		Volume Two A5G3(1)(e) – Certificate or report from a professional engineer or other appropriately qualified person	Item 10
NT H4P6	Volume Two A2G2(2)(a)	Volume Two A5G3(1)(d) – Report issued by an Accredited Testing Laboratory	Item 12

		Volume Two A5G3(1)(e) – Certificate or report from a professional engineer or other appropriately qualified person	Items 13 to 17
NSW H6P1	Volume Two A2G2(2)(a)	Volume Two A5G3(1)(d) – Report issued by an Accredited Testing Laboratory	Item 12
NT H6P1	Volume Two A2G2(2)(a)	Volume Two A5G3(1)(d) – Report issued by an Accredited Testing Laboratory	Item 12
NSW NCC2019A1 NSW P2.6.1(A)	Volume Two A2G2(2)(a)	Volume Two A5G3(1)(d) – Report issued by an Accredited Testing Laboratory	Item 12
TAS NCC2019A1 P2.6.1	Volume Two A2G2(2)(a)	Volume Two A5G3(1)(d) – Report issued by an Accredited Testing Laboratory	Item 12
WA 2.2.3	Volume Two A2G3(2)(a)	Volume Two A5G3(1)(e) – Certificate or report from a professional engineer or other appropriately qualified person	Items 1 to 4
WA 2.2.4(c)(d)	Volume Two A2G3(2)(a)	Volume One A5G3(1)(e) – Certificate or report from a professional engineer or other appropriately qualified person	Items 1 to 4
		Volume One A5G3(1)(f) – Another form of documentary evidence	Item 21
NT 3.4.1(2)	Volume Two A2G3(2)(a)	Volume One A5G3(1)(e) – Certificate or report from a professional engineer or other appropriately qualified person	Items 1 to 4
		Volume One A5G3(1)(f) – Another form of documentary evidence	Item 21
NSW H7D4	Volume Two A2G3(2)(a)	Volume Two A5G3(1)(d) – Report issued by an Accredited Testing Laboratory	Items 5 to 9
		Volume Two A5G3(1)(e) – Certificate or report from a professional engineer or other appropriately qualified person	Item 10

B2 Reports

The following reports have been used as evidence to determine compliance with BCA 2022:

Ref	Author	Reference	Date	Description	NATA Registration
1	University of Canterbury, Chris Allington and Nigel Maxey	Report: C2004-02	2004	Civil Engineering Research Paper Lateral load resistance of AFS wall panels	N/A
2	Van Der Meer Consulting Pty Ltd, Neil Bonser	SY030230	21/09/2005	Lateral load resistance of AFS wall panels – Results of structural testing	N/A
3	UNSW Global – Unisearch Expert Opinion Services, Mark Bradford	J085172	5/05/2014	AFS LOGICWALL® System – Corrosion Durability Review	N/A
4	Mahaffey Associates, David Mahaffey	10655/01	23/10/2014	Report on Compliance of LOGICWALL with the Durability Requirements of AS3600	N/A
5	CSIRO – Infrastructure Technologies, Heherson Alarde	FCO-3442-Rev B	28/03/2022	Fire-resistance of AFS Logicwall and Rediwall system in accordance with AS1530.4-2014	Accreditation No. 165 Corporate Site No. 3625
6	CSIRO – Infrastructure Technologies, Keith Nicholls	FCO-3380 Rev D	18/08/2020	The fire resistance of AFS Rediwall and AFS Logicwall including various service penetrations in accordance with AS 1530.4-2014 and AS 4072.1-2005 Amdt 1.	Accreditation No. 165 Corporate Site No. 3625

Ref	Author	Reference	Date	Description	NATA Registration
7	CSIRO – Infrastructure Technologies, Keith Nicholls	FCO-3084 Revision D	17/01/2025	Fire resistance of AFS Logicwall systems in accordance with AS 1530.4-2014	Accreditation No. 165 Corporate Site No. 3625
8	AWTA Product Testing	18-000662	16/02/2018	Testing of 6.0mm thick Ceminseal Wallboard of density 9.0kg/m^2 in accordance with AS/NZS 1530.3 Methods for fire tests on building materials, components and structures – Part 3: Simultaneous determination of ignitability, flame propagation, heat release and smoke release.	Accreditation No. 1356
9	Warringtonfire Muntaqim Pereira and Anthony Rosamilia	ASCRRTF190235	14/10/2019	Classification of wall and ceiling lining in accordance with AS 5637.1:2015 – 6mm Cemintel AFS Formwork	Accreditation No. 3277
10	SGA Fire Carlos Quaglia	115620-FAR8-r1	24/10/2022	Logicwall® Fire-Resistance-Level Assessment	N/A
11	Xavier Knight	220912 Revision 02	17/04/2023	Weatherproofing Assessment – AFS Logicwall and Rediwall	N/A
12	CSIRO – Manufacturing and Infrastructure Technology	TL463	16/08/2006	Laboratory Measurement of Airborne Sound Insulation	N/A
13	Acoustic Logic Justin Leong	20181292.1/1032A/R0/JL	13/02/2019	AFS Logicwall 120mm Base Wall – Acoustic Performance Opinion AFS1001	N/A
14	Acoustic Logic Justin Leong	20181292.1/1502A/R0/JL	15/02/2019	AFS Logicwall 150mm Base Wall – Acoustic Performance Opinion AFS2001	N/A
15	Acoustic Logic Justin Leong	20181292.1/2502A/R0/JL	25/02/2019	AFS Logicwall 162mm Base Wall – Acoustic Performance Opinion AFS3001	N/A
16	Acoustic Logic Justin Leong	20181292.1/2502A/R0/JL	25/02/2019	AFS Logicwall 200mm Base Wall – Acoustic Performance Opinion AFS4001	N/A
17	Acoustic Logic George Wei	20181292.6/1606A/R1/GW	16/06/2020	262mm Thick AFS Logicwall – Acoustic assessment	N/A
18	James M. Fricker Pty Ltd	107LW150.03 107LW150.04 107LW150.05 107LW200.04 107LW200.05 107LW120.02 107LW120.021 107LW120.05 107LW150.06 107LW150.061 107LW150.07	5/07/2019	"Total R" Thermal Performance Calculations to AS/NZS 4859 Parts 1 & 2:2018 – Insulated Logicwall Systems	N/A

Ref	Author	Reference	Date	Description	NATA Registration
19	James M. Fricker Pty Ltd	107LW 120.06 107LW 150.06 107LW 120.062 107LW 150.062 107LW 120.063 107LW 150.063	5/08/2019	"Total R" Thermal Performance Calculations to AS/NZS 4859 Parts 1 & 2:2018 – Insulated Logicwall Systems	N/A
20	James M. Fricker Pty Ltd	107wLW120 107wLW150 107wLW162 107wLW200 107wLW262	24/04/2020	Overall "Total R" (Thermally Bridged) Thermal Performance Calculations to AS/NZS 4859 Parts 1 & 2:2018 – LW120, LW150, LW162, LW200, LW262 Logicwall (bare)	N/A
21	CSR Cemintel	-	6/11/2019	Cemintel Technical Data Sheet – AFS Formwork	N/A