Certificate of Conformity

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Certificate number: CM40424

THIS IS TO CERTIFY THAT

Walsc® Façade Wall System

Type and/or use of product:

Non-load bearing external Facade Wall Cladding System.

Description of product:

Façade Wall System comprising several proprietary components including non-load bearing steel reinforced Autoclaved Aerated Concrete (AAC) panels. Refer A2 below for details.

COMPLIES WITH THE FOLLOWING BCA PROVISIONS AND STATE OR TERRITORY VARIATION(S) **BCA 2022 (Amdt. 2)**

		Volume One	Volume Two
Performance Requirement(s):	B1P1(2)(a)&(c)	Structural reliability – Subject to limitation and conditions 1, 2 & 3	Not applicable
	F3P1	Weatherproofing – Subject to *Limitation and Condition 5.*	
Deemed-to-Satisfy Provision(s):	C2D2(2)	Fire Resistance and Stability – Subject to *Limitation and Condition 7.*	Not applicable
	C2D10	Non-combustible building elements – limited to the AAC Panel Only and subject to *Limitation and Condition 6*. Refer A3 for details.	
	F8D3	Condensation Management – Subject to *limitation and condition 3.*	
	G5D3	Construction in bushfire prone areas – Subject to *limitation and condition 8, 9 & 10.*	
	J4D6	Energy Efficiency – External Walls. Must be used in conjunction with other building elements to achieve a Total R Value.	
State or territory variation(s):	F1P4 (SA), G5D3 (NSW), J4D6 (NSW)		Not applicable

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. Construction shall be in strict accordance with the Walsc Facade Wall System - Design & Installation Guide February 2026.
2. Compliance with B1P1(2)(a) is subject to the following conditions for each building the Walsc Façade Wall System is used on:

Building classification/s:

Class 2,3,4 & 5

Glen Gugliotti – CMI

Don Grehan – Unrestricted Building Certifier

Date of issue: 16/03/2026

Date of expiry: 16/03/2029

a. The steel shelf angle is to be designed by an experienced and qualified structural engineer in accordance with AS4100:2020 (or AS 4673:2001 for stainless), AS 5216:2021 and AS 3600:2018 as appropriate.
b. The suspended floor slab is to be designed by an experienced and qualified structural engineer in accordance with AS 3600:2018 as appropriate.
c. The stud frame is to be designed by an experienced and qualified structural engineer in accordance with AS/NZS 4600:2018.
d. The designer must ensure that the design weight of the 75mm Reinforced Walsc AAC Panels plus coating is allowed for when undertaking design of the support structure. (e.g. shelf angles and suspended slabs etc.). Refer to clauses 3.2.4 & 3.2.7 of AS5146.2.

3. The Walsc® Façade Wall System has not been tested and certified for impact loading from windborne debris in Region C and D as denoted in AS 1170.2:2021. The building designer should take into consideration internal pressure resulting from dominant openings.
4. Compliance with F8D3 only applies to a sole-occupancy unit of a class 2 building and a class 4 parts of a building. The pliable building membrane shall comply with AS/NZS 4200.1 and have a vapour permeance of not less than 0.143 µg/N.s (in climate zones 4 and 5) and 1.14 µg/N.s (in climate zones 6, 7 and 8).
5. To satisfy F3P1 via the Verification Method provided in the NCC, the relevant design is required to meet the criteria of F3V1 to the satisfaction of the Appropriate Authority as defined by the NCC. The site specific building must;
   a. have a risk score of 20 or less, when the sum of all risk factors are determined in accordance with Table F3V1a; and
   b. not be subjected to an ultimate limit state wind pressure of more than 2.5kPa; and
   c. include only windows that comply with AS 2047.

   For Waterproofing applications that exceed 2.5kPa ultimate limit state wind pressure, contact the Certificate Holder for solutions. Testing confirmed an ultimate load of +5.5 or -7.0 kPa. For applications where design pressures exceed these limits, please contact Certificate Holder.
6. Where the NCC requires building elements and/or ancillary elements to be non-combustible or achieve specific fire resisting performance requirements, the Walsc® Façade Wall System must be constructed to satisfy such requirements as relevant to the determined building class(es).
7. Compliance with FRL is dependent on the system being design and installed in accordance with the Walsc Facade Wall System - Design & Installation Guide February 2026. Any deviation from the tested specimen does not form part of this certificate of conformity.
8. The Walsc® Façade Wall System is suitable for use in BAL 12.5 – BAL FZ. Refer A3. Compliance with BAL should be reviewed with the respective BAL requirements of AS 3959 by Building Designers & Authorities having jurisdiction as each building may require specific design or construction requirements outside of the specific wall material.
9. Compliance with BAL-FZ is limited to the requirements of Section 9.1 of AS 3959:2018 and requires a minimum distance of 10m from the edge of any classified vegetation. This product is not suitable to be installed where the 10m setback distance between the building and the edge of the classified vegetation cannot be achieved and/or maintained in perpetuity. In order to maintain compliance with BAL, it is the responsibility of the Building Designer to ensure compliance is achieved in accordance with AS 3959:2018.
10. In order to comply with the NSW provisions of G5D3, a site-specific performance solution is to be prepared in line with the Planning for Bush Fire Protection 2019 guidance document.
11. The use of the certified product/system is subject to these Limitations and Conditions and must be read in conjunction with the Scope of Certification below.

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.

Only criteria as identified within this Certificate of Conformity can be used for CodeMark certification claims. Where other claims are made in a client's Installation Manual, Website or other documents that are outside the criteria on this Certificate of Conformity, such criteria cannot be used or claimed to meet the requirements of this CodeMark certification.

The NCC defines a Performance Solution as one that complies with the Performance Requirements by means other than a Deemed-to-Satisfy Solution. A Building Solution that relies on a CodeMark Certificate of Conformity that certifies a product against the Performance Requirements cannot be considered as Deemed-to-Satisfy Solution.

This Certificate of Conformity may only relate to a part of a Performance Solution. In these circumstances other evidence of suitability is needed to demonstrate that the relevant Performance Requirements have been met. The relevant provisions of the Governing Requirements in Part A of the NCC will also need to be satisfied.

Certificate of Conformity

This Certificate of Conformity is issued based on the evidence of compliance as detailed herein. Any deviation from the specifications contained in this Certificate of Conformity is outside of this document's scope and the installation of the certified product will not be covered by this Certificate of Conformity.

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.

When using the CodeMark logo in relation to or on the product/system, the Certificate Holder makes a declaration of compliance with the Scope of Certification and confirms that the product is identical to the product certified herein. In issuing this Certificate of Conformity, CMI Certification Pty Ltd (CMI) has relied on the experience and expertise of external bodies (laboratories and technical experts).

Nothing in this document should be construed as a warranty or guarantee by CMI, and the only applicable warranties will be those provided by the Certificate Holder.

APPENDIX A – PRODUCT TECHNICAL DATA

A1 Type and intended use of product

The Walsc Facade Wall System is a non-load bearing external wall where the stud frame and AAC panel components will be located in between the suspended concrete slabs on each level of the building around the external perimeter. The stud frames and AAC panels will not support the permanent and imposed load of the concrete slabs above it.

A2 Description of product

The Walsc Façade Wall System is an external non-load bearing wall system that comprises of two wall leaves separated by a cavity. The external leaf is the reinforced AAC panel while the internal leaf is a steel stud frame wall with pliable wall membrane on the cavity side and internal lining on the other. The cavity is formed by horizontal steel tophat battens.

Material Properties AAC Panel

Property			Value
Panel Thickness	d	(mm)	75
Panel Width	w	(mm)	600
Panel Length (max.)	L	(mm)	3300
Panel Edge Profile			Square Edge
Dry Density	ρ_{dry}	(kg/m³)	525
Ambient Density	$\rho_{ambient}$	(kg/m³)	600
Density for Design	ρ_{design}	(kg/m³)	650

Property			Value
Panel Weight per SQM	m	(kg/m²)	50
Characteristic AAC Compressive Strength	f_{ck}	(MPa)	2.9
Reinforcement Tensile Yield Stress	f_{yk}	(MPa)	500
Reinforcement Characteristic Weld Strength	V_{uk}	(kN)	3.1
Ultimate Strength Bending Capacity	$ØM_k$	(kNm/m)	0.7
Thermal Resistance		(R-Value)	0.52
Coefficient of Thermal Expansion		($x10^{-6}$/K)	7.0

System Components

Product	Description
75mm Reinforced Walsc AAC Panel	Lengths are various, please contact supplier for more details.
Steel Top Hat	Rondo M535 or equivalent, minimum BMT 0.75mm, minimum yield strength 275MPa with coating class Z275 or to project specifications.
Shelf Angle & Corner Shelf Angle (Hidden Slab Edge)	150mm x 100mm x 6mm shelf angle or as per project requirement. Shelf angle shall comply with AS/ NZS2699.3, fixing as per engineer's specification.
Wall Wrap	Pliable wall wrap in accordance with AS4200. It must meet the requirements of the NCC 2022 and suitable for using in non-combustible external walls.
Sealing Tape	Tape for joining laps of wall wrap. It must meet the requirements of the NCC 2022 and suitable for using in non-combustible external walls.
Waterproof Tape	For sealing of wall wrap to other substrates and penetrations It must meet the requirements of the NCC 2022 and suitable for using in non-combustible external walls.
AAC Panel to Steel Top Hat Fixing Screw	14-10 x 90mm Type 17 hex head screw with Class 1 1 1 corrosion resistance (minimum) as per AS3566.2-
Steel Top Hat to Stud Frame Screw	10-16x16mm tek screw for fixing into steel stud Class 1 1 1 corrosion resistance (minimum) as per AS3566.2-
Plasterboard	As per project design.
Stud Frame	Steel stud framing shall be designed in accordance with AS/NZS4600-20/8
Insulation	Wall insulation shall be provided between each stud to achieve the required R-Value_ Refer to Energy Efficiency Section of this guide. It must meet the requirements of the NCC 2022 and suitable for using in non-combustible external walls.
Walsc AAC Adhesive	Cement based AAC adhesive is applied to all adjoining panel edges and can also be used to patch up minor damaged areas.
Pressure Equalisation Slot	Recommend to use 70mm Weepa. 75mm(H) x 10mm(W) x 70mm(D)
Approved Corrosion Protection Paint	When panels are cut, the exposed ends of the reinforcement must be treated with corrosion protection paint.
Flexible Sealant	External grade polyurethane sealant must be used in all control joints of Facade walls. It is recommended to use Bostik Seal 'N' Flex 1 or equivalent.
Fire Rated Sealant	Fire rated sealant must be used in all control joints throughout the fire rated wall It is recommended to use Bostik Fireban One, H.B Fuller Firesound or equivalent.

A3 Product specification

Structural reliability [B1P1(2)(a)&(c)]

The 75mm Reinforced Walsc AAC Panels are non-loadbearing, therefore do not support vertical loads except for the self-weight of the panel (refer to material properties for panel density). Similarly, the panels should not be relied upon to support in-plane racking forces. The light gauge steel stud frame and top hats, that support the AAC panels, must be deigned in accordance with the relevant standard (AS4600). The design of the stud frame for each application shall be undertaken by suitably qualified and experience engineer. The AAC panels will be subject to out-of-plane loading due to wind and earthquake. The table below outlines the maximum top hat spacing and fixing requirements with respect to various wind loads.

Ultimate Wind Pressure	Stud Spacing (mm)	Maximum Top Hat Spacing (mm)	Minimum No. of Fixings per panel per top hat
Up to ±1.0 kPa	600	1200	4
Up to ±2.0 kPa	450	1200	4
Up to ±3.0 kPa	300	1100	4
Up to ±4.0 kPa	225	1000	4
Up to ±5.0 kPa	150	850	4

Weatherproofing [F3P1]

Weatherproofing testing has been undertaken on the Walsc Façade Wall system by Ian Bennie & Associates. The test report, reference 2017-006-S1 dated April 2017, indicates that the testing was undertaken in accordance with AS/NZS 4284:2008 and successfully passed the mandatory requirements for the nominated serviceability wind pressures of ±2.50 kPa and ultimate wind pressures of +5.5 kPa and -7 .0 kPa.

The test details shown in the weatherproofing test report were reviewed against the details shown in the Walsc Façade wall system. The details were consistent and therefore it is appropriate to consider that the Walsc Façade Wall system achieves compliance with the weatherproofing performance requirement F3P1 for serviceability wind pressures of ±2.50 kPa.

The ability of the Walsc Façade Wall System to achieve the weatherproofing performance stated in the test report requires the following important matters which form conditions of the compliance:

1. External walls of buildings are aligned vertically.
2. The cold formed steel stud framing is designed and constructed:
    a. in accordance with AS/NZS 4600:2018 to resist the ultimate limit state wind pressure as follows:
    b. to limit deflections to not more than span/400 for the serviceability limit state wind pressure.

Fire Resistance & Bushfire [C2D2 & G5D3]

The Walsc Facade Wall Systems have been tested and assessed and achieves a FRL of**–/120/120** when designed and installed in accordance with Walsc Facade Wall System - Design & Installation Guide February 2026. This meets the requirements for construction in Bushfire Prone areas up to BAL-FZ where AS 3959:2018 requires an external wall FRL of -/30/30.

***Source**: VENN Engineering Pty Ltd; Report Reference No: VE-SIP2206141C dated 03/03/2026 and CSIRO Test Report No. FSV 2506 dated 05/11/2025.*

Non-combustibility [C2D10]

Test for Combustibility for Materials in accordance with AS 1530.1:1994 for Walsc Autoclaved Aerated Concrete (AAC) Dry Density 520kg/m^3.

The material is **NOT deemed combustible** – Limited to the panel only.

***Source**: CSIRO Test Report No. FNC11422 issue date 07/07/2015.*

Compliance with C2D10 is limited to the AAC panel as tested in accordance with AS 1530.1-1994 and other elements of the Walsc® Façade Wall System including:

- gaskets, caulking, sealants, damp-proof courses, that are addressed in C2D10(4) are not required to be non-combustible; and,
- plasterboard, and sarking-type materials that do not exceed 1mm in thickness and have a flammability index of not greater than 5, that are addressed in C2D10(6) may be used wherever a non-combustible material is required.

Installation of coating systems to the external face of an external wall must be in accordance with Walsc Facade Wall System - Design & Installation Guide February 2026

Condensation Management [F8D3]

Compliance with F8D3 requires the use of pliable building membrane are shown in Walsc Facade Wall System - Design & Installation Guide February 2026. The pliable building membrane must comply with AS/NZS 4200.1, be installed in accordance with AS/NZS 4200.2 and have a vapour permeance of not less than 0.143 µg/N.s (in climate zones 4 and 5) and 1.14 µg/N.s (in climate zones 6, 7 and 8).

Energy Efficiency [J4D6]

Walsc Facade Wall System with 10mm plasterboard internal lining	Total R Values, m².K/W (All wall bridged)	
	Winter	Summer
AAC Panel + 24mm top hat + 70mm reflective still air space + steel stud (76x35mmx0.55BMT) at 600mm centres	R1.80	R1.77
AAC Panel + 24mm top hat + 70mm R1.50 bulk Insulation + steel stud (76x35mmx0.55BMT) at 600mm centres	R2.38	R2.29
AAC Panel + 24mm top hat + 70mm R2.00 bulk insulation + steel stud (76x35mmx0.55BMT) at 600mm centres	R2.66	R2.58
AAC Panel + 24mm top hat + 90mm R2.00 bulk insulation + steel stud (92x35mmx0.55BMT) at 600mm centres	R2.70	R2.59
AAC Panel + 24mm top hat + 90mm R2.20 bulk insulation + steel stud (92x35mmx0.55BMT) at 600mm centres	R2.81	R2.70
AAC Panel + 24mm top hat + 90mm R2.50 bulk insulation + steel stud (92x35mmx0.55BMT) at 600mm centres	R2.96	R2.86
AAC Panel + 24mm top hat + 90mm R2.70 bulk insulation + steel stud (92x35mmx0.55BMT) at 600mm centres	R3.06	R3.96
AAC Panel + 24mm top hat + 70mm reflectve still air space + steel stud (76x35mmx0.55BMT) at 450mm centres	R1.76	R1.73
AAC Panel + 24mm top hat + 70mm R/ .50 bulk insulation + steel stud (76x35mmx0.55BMT) at 450mm centres	R2.29	R1.73
AAC Panel + 24mm top hat + 70mm R2.00 bulk insulation + steel stud (76x35mmx0.55BMT) at 450mm centres	R2.54	R2.47
AAC Panel + 24mm top hat + 90mm R2.00 bulk insulation + steel stud (92x35mmx0.55BMT) at 450mm centres	R2.58	R2.48
AAC Panel + 24mm top hat + 90mm R2.20 bulk insulation + steel stud (92x35mmx0.55BMT) at 450mm centres	R2.67	R2.58
AAC Panel + 24mm top hat + 90mm R2.50 bulk insulation + steel stud (92x35mmx0.55BMT) at 450mm centres	R2.81	R2.72
AAC Panel + 24mm top hat + 90mm R2.70 bulk Insulation + steel stud (92x35mmx0.55BMT) at 450mm centres	R2.89	R2.81

Note:
1. The above table gives Total R Values (Australia) for the thermally bridged whole wall surface (no glazing). For New Zealand (8% M.C.) total R values will be R0.063 less. The All Wall (bridged) results do not have any thermal break products present.
2. 75mm Walsc AAC Panel assumed to have 0.157 thermal conductivity at 4% M.C. based on assumed 0.133 conductivity at 560 kg/m3 dry density
3. Results are unchanged for 16mm or 24mm battens as that gap is not reflective.
4. Results are unchanged for 16mm or 24mm battens as that gap is not reflective

Source: *James M Fricker Report No. i523a2 dated 13/07/2021.*

A4 Manufacturer and manufacturing plant(s)

This field is optional. Contact Certificate Holder for details.

A5 Installation requirements

Only to be installed in accordance with Walsc Facade Wall System - Design & Installation Guide February 2026.

A6 Other relevant technical data

No other relevant technical data.

APPENDIX B – EVALUATION STATEMENTS

B1 Evaluation methods

1. Structural Provisions A5G3(1)(e). Reports from a professional engineer.
2. Fire Safety Provisions A5G3(1)(d)&(e). Reports from Accredited Testing Laboratories and a professional engineer.
3. Thermal Provisions A55G3(1)(e). Reports from a professional engineer.
4. Weatherproofing Provision A5G3(1)(d)&(e). Reports from Accredited Testing Laboratories and a professional engineer.

B2 Reports

1. VENN Engineering Pty Ltd; Report Reference No: VE-SIP2206141C; NCC Compliance Report – Walsc AAC Facade Wall System for Apartment and Commercial Buildings; Dated 03/03/2026. The report confirms compliance for B1P1(2)(a)&(c), B1P2, C2D2(2), F3P1, F8D3 and G5D3. Reports referenced include:
   a. Ian Bennie & Associates Pty Ltd; NATA Accreditation No. 2371; Report 2017-006-S1; Walsc AAC high rise façade wall system prototype test to AS/NZS 4284:2008; Dated 22/01/2016. This report provides compliance with F3P1
   b. Ignis Solutions Report No. 8104 Issue 01 Revision 02; Product evaluation report for the Walsc Façade Wall System; Dated 2018
   c. CSIRO Report No. FSV 1784; Fire test report on a non-load-bearing vertical separating element; Dated 20/02/2017.
   d. CSIRO Report No. FSV 2009; Fire test report on a load-bearing vertical separating element; Dated 08/07/2019.
   e. CSIRO Report No. FSV 2506; Fire-resistance test of a non-loadbearing vertical separating element; Dated 05/11/2025.
2. CSIRO; NATA Accreditation No. 165; Combustibility test for materials in accordance with AS 1530.1-1994; Dated 07/07/2015. Report confirms compliance with non-combustibility C2D10.
3. James M Fricker Pty Ltd; Report No. i523a2; Thermal calculations of WALSC® residential external wall systems; Dated 13/07/2021. This report provides R Values in compliance with the requirements of J4D6.

The Certificate Holder has chosen not to make the above evidence of compliance publicly available, due to the documents being considered commercial in confidence.