



Certificate of Conformity

Certification Body:



ABN: 81 663 250 815
JAS-ANZ Accreditation
No. Z4450210AK
PO Box 273,
Palmwoods Qld 4555
Australia
P: +61 7 5445 2199
www.cmicert.com.au
office@cmicert.com.au

Certificate Holder:



CSR Hebel®

ABN: 55 008 631 356
Triniti 3, 39 Delhi Rd
North Ryde,
NSW 2113
Locked Bag 1345,
North Ryde BC
NSW 1670
Australia
P: 1300 712 896
www.hebel.com.au

BCA 2022 – Refer to page 13 onwards

Certificate number: CM40233 Rev2

THIS IS TO CERTIFY THAT

Low Rise Multi Residential Hebel® PowerPanel⁵⁰ AAC External Wall System

Type and/or use of product:

Low Rise Multi Residential External Wall System.

Description of product:

Low Rise Multi Residential Hebel® PowerPanel⁵⁰ comprises a steel reinforced 50mm non load bearing Autoclaved Aerated Concrete (AAC) 510kg/m³ panel, comprising several proprietary components installed vertically and horizontally.

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

BCA 2025

	Volume One	Volume Two
Performance Requirement(s):	B1P1(1), (3)(a), (b), (c) & (d) F1P1 F8P1	H1P1(1), (3)(a), (b), (c) & (d) H2P2 H4P7
Deemed-to-Satisfy Provision(s):	C2D2(2) G5D3 J4D6	H3D3 H7D4 H6D2(1)(b)(i)
State or territory variation(s):	B1P1 (NSW), C2D2(2) (SA), NSW Part F8, F8P1(TAS), G5D3 (NSW), NT Part J4	H1P1 (NSW), H7D4 (NSW, QLD & SA), Part H6 (NSW, NT & TAS)

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

Limitations and conditions:

- Installation must be in accordance with [Houses and Low Rise Multi Residential PowerPanel⁵⁰ External Walls Vertical & Horizontal Installation Guide version HELIT181AUG26](#).

Building classification/s:

Class 1,2,3,4,5,6,7,8,9 & 10


Glen Gugliotti – CMI



Don Grehan – Unrestricted Building Certifier

Date of issue: 03/09/2026

Date of expiry: 07/10/2027



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2. Where the NCC requires building elements and/or ancillary elements to be non-combustible or achieve specific fire resisting performance requirements, the Hebel® PowerPanel⁵⁰ Wall System must be constructed to satisfy such requirements as relevant to the determined building class(es).
3. Compliance with FRL is dependent on the system details specified in A3. Any deviations are outside the scope of this Certificate of Conformity.
4. Construction methods for external walls required to be fire resisting in relation to class 1 and 10 buildings and structures must comply with Part 9.2 of the ABCB Housing Provisions.
5. Reference to the use of timber framing systems in Section A3 is strictly limited to Class 1 & 10 Buildings and structures, Class 2 – 9 Buildings of Type C Construction or otherwise where concession for timber framed construction apply.
6. Timber stud framing must be constructed in accordance with AS 1684 National Timber Framing Code & steel stud framing must be constructed in accordance with the Nash Standard for residential and low rise steel framing.
7. Structural compliance B1P1(3)(c) or H1P1(3)(c) covers wind classifications N1-N4 & C1-C2. Structural compliance does not cover wind classifications N5, N6, C3 & C4.
8. The Low Rise Multi Residential Hebel® PowerPanel⁵⁰ AAC External Wall System has not been tested and certified for impact loading from windborne debris in Region C and D as denoted in AS/NZS 1170.2:2021(Amendment 2 2024). The building designer should take into consideration internal pressure resulting from dominant openings.
9. Design certification for earthquake loading compliance to B1P1(3)(d) or H1P1(3)(d) in accordance with AS 1170.4:2007(Amd 2:2018) excludes Meckering Regions and Island Regions. Components approved under this Certificate of Conformity are not part of the seismic-force-resistance system in B1P1(3)(d) or H1P1(3)(d).
10. Compliance with F1P1 Water Management & H2P2 Weatherproofing is limited to the systems detailed in A3, deviations are outside the scope of this Certificate of Conformity and will be subject to site specific design and approval by the regulatory authority. The site-specific building must:
 - a. have external walls with a risk score of max 20, determined in accordance with the NCC verification method table F1V1a or H2V1a, as appropriate.
 - b. include only windows that comply with AS 2047.
11. Clearance from the underside of the panel to the finished surface level below must comply with Part 7.5.7 of the ABCB Housing Provisions however, may be reduced to a minimum of 25mm where the design wind speed does not exceed N3 and the product is installed in accordance with [Houses and Low Rise Multi Residential PowerPanel⁵⁰ External Walls Vertical & Horizontal Installation Guide version HELIT181AUG26](#) incorporating [Hebel® Technical Update \(TU-033 Rev 1\) dated 06/08/2026](#).
12. Compliance with F8P1 and H4P7 has been verified via Verification Method F8V1 and H4V5 where the mould growth index of greater than 3 as defined by Section 6 of AIRAH DA07 does not occur.
13. Compliance with BAL must 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. When constructing in BAL – FZ a minimum setback distance of 10m from the edge of the classified vegetation is required. 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
14. Other than the items and information listed, the remainder of the information contained in the product's literature is outside the Scope of Certification.
15. 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.



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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.

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

As per page 1.

A2 Description of product

Hebel® PowerPanel⁵⁰ Wall System Components

Component	Description												
Hebel® PowerPanel	The Hebel® PowerPanel ⁵⁰ is a 50mm thick AAC panel with a minimum nominal dry density of 510kg/m ³ and up to 3000mm length, installed vertically and horizontally to timber or steel framing via top hats:												
	Thickness: 50mm												
	Standard Width: 600mm												
	Standard Length Vertical: 2400, 2550, 2700, 2800, 2850 & 3000mm.												
	Standard Length Horizontal: 2000, 2200 & 2400mm												
	Reinforcement up to 2700mm panel length: 5 x 4mm or 4.5mm longitudinal steel bars												
	Reinforcement up to 2700mm – 3000mm panel length: 5 x 4.5mm or 5.0mm longitudinal steel bars												
Nominal Dry Density: 510 kg/m ³													
Top Hat	Hebel® Perforated Top Hats are used to vertically fix the Hebel® PowerPanel ⁵⁰ panel to the structural support framing. There are two nominal widths available: 24mm and 35mm – incorporating perforated flanges for ease of installation on to external wall frame.												
	<table><tr><th>Nominal widths</th><th>Minimum thickness</th><th>Minimum yield strength</th><th>Coating class</th></tr><tr><td>24mm</td><td>0.42mm BMT</td><td>550MPa (zincalume)</td><td>AZ150</td></tr><tr><td>35mm</td><td>0.55mm BMT</td><td>270MPa (Galvabond)</td><td>Z275</td></tr></table>	Nominal widths	Minimum thickness	Minimum yield strength	Coating class	24mm	0.42mm BMT	550MPa (zincalume)	AZ150	35mm	0.55mm BMT	270MPa (Galvabond)	Z275
	Nominal widths	Minimum thickness	Minimum yield strength	Coating class									
	24mm	0.42mm BMT	550MPa (zincalume)	AZ150									
35mm	0.55mm BMT	270MPa (Galvabond)	Z275										
Horizontal Battens	Refer Table 3.2.1 in section 3.2 of Houses and Low Rise Multi Residential PowerPanel⁵⁰ External Walls Vertical & Horizontal Installation Guide version HELIT181AUG26 for the options for PowerPanel ⁵⁰ horizontal installation Batten components.												
Fasteners & Fixing	Fixing of top hat to timber stud frame; 12-11x35mm hex head type 17 screw.												
	Fixing of top hat to steel framing; 10-16x16mm hex head self-drilling screw.												
	Fixing of Hebel® PowerPanel ⁵⁰ panels to top hat 14-10x65mm bugle head type 17 screw.												
Hebel® Mortar	Hebel® Mortar when required is used as a thick bed mortar base to provide a level base for Hebel® PowerPanel ⁵⁰ installation as well as providing acoustic and fire protection at the base of the panels.												
Hebel® Adhesive	Hebel Adhesive is used for gluing the Hebel® PowerPanel ⁵⁰ panels together at vertical and horizontal joints.												
Hebel® Patch	Minor chips or damage to Hebel® PowerPanel ⁵⁰ panels are to be repaired using Hebel Patch.												
Hebel® Anti Corrosion Protection Paint	To coat exposed reinforcement during cutting.												
Hebel® external Aluminium Render Bead (optional)	Hebel® external Aluminium Render Bead is used to provide neat and consistent horizontal control joints. *Note; this option is not a Fire Rated option.												
Wall Wrap	Thermoseal Wall Wrap XP, Enviroseal™ Plus, Enviroseal™ Aero, Thermoseal Wall Wrap PRIME, Polyair Performa 4.0 XHD.												

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A3 Product specification

The properties of the wall systems relevant to the Hebel® PowerPanel⁵⁰ Wall System, as described herein, vary with the configuration of the wall structure; It is therefore considered essential that this certificate be read in conjunction with [Houses and Low Rise Multi Residential PowerPanel50 External Walls Vertical & Horizontal Installation Guide version HELIT181AUG26](#).

Structural Reliability and Resistance

[H1P1(1), (3)(a), (b), (c) & (d) & B1P1(1), (3)(a), (b), (c) & (d)]

Structural capacity design calculations for strength and serviceability requirements were carried out in accordance with the current relevant building and structural engineering codes in particular; AS1170.0:2002 (Amendment 5), AS1170.1:2002 (Amendment 2), AS1170.2:2021 (Amendment 2 2024), AS1170.4:2024, AS4055:2021 (Amendment 1 2024), AS5146.2:2018, AS5216:2021. Structural compliance B1P1(3)(c) & H1P1(3)(c) covers wind classifications N1-N4 & C1-C2 as per Tables 2.2.1, 2.2.2, 2.2.3 & 2.2.4, in Section 2.2 and Table 3.2.2 in Section 3.2 of [Houses and Low Rise Multi Residential PowerPanel50 External Walls Vertical & Horizontal Installation Guide version HELIT181AUG26](#). Structural compliance does not cover wind classifications N5, N6, C3 & C4.

Source: PACE Structural Pty Ltd, Reports No. PS20145 dated 19/08/2026.

Condensation Management

[F8P1 & H4P7]

Compliance with F8P1 & H4P7 *Condensation and water vapour management* has been confirmed via verification method F8V1 and H4V5. The assessment has determined that a mould index of greater than 3 will not occur.

Source: Makao Group Pty Ltd; Rev G; Hygrothermal Modelling Verification Report - CSR Hebel PowerPanel Wall Assemblies - Scope 2.2; Dated 11/08/2026

Water Management - Weatherproofing

[F1P1 & H2P2]

Compliance with F1P1 Water Management & H2P2 Weatherproofing are considered to be met for the Hebel systems, based on a combination of testing to the Verification Method, Comparisons with the deemed-to-satisfy requirements, and the designs reflected in technical manual listed in A5, providing that the site-specific building has the following:

- External walls with a risk score of max 20, determined in accordance with the NCC verification method table F1V1a or H2V1a, as appropriate.
- include only windows that comply with AS 2047.

Note: It is the responsibility of the project designer or engineer to identify and mitigate moisture related risks associated with any particular building design.

Refer to A5 Installation Requirements for Additional Requirements for Water Management – Weatherproofing.

Source: Xavier Knight; Weatherproofing Assessment, Report Reference 220912 260828 Rev00 Weatherproofing assessment Hebel External Wall Systems in low-rise buildings XK dated 28/08/2026.

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Fire resistance and stability – Fire separation of external walls [C2D2(2) & H3D3]

FRL of 90/90/90 was achieved from panel side only when tested in accordance with AS 1530.4-2014 by CSIRO.

Source: CSIRO, Report No: FCO-3241 Revision D; dated 03/12/2024.

Refer [Houses and Low Rise Multi Residential PowerPanel50 External Walls Vertical & Horizontal Installation Guide version HELIT181AUG26](#) the following system configurations that achieve an FRL of 90/90/90.

Figure	FRL	Figure	FRL
2.9.3.1	90/90/90	3.5.4.4	90/90/90
2.9.4.7	90/90/90	3.5.5.1	90/90/90
2.9.6.1	90/90/90	3.5.7.1	90/90/90
2.9.6.2	90/90/90	3.5.7.2	90/90/90
2.9.6.5	90/90/90	3.5.7.3	90/90/90
2.9.6.9	90/90/90	3.5.7.7	90/90/90
2.9.6.10	90/90/90	3.5.7.8	90/90/90

Variations to linings and framing

Frame	Orientation of panel	Interior Lining	Direction of Fire	FRL
Timber or Steel	Horizontal or vertical fixed to frame*	Standard grade plasterboard	Outside Only	-/60/60 or 60/60/60
Timber	Horizontal or vertical fixed to frame*	1 x 16mm Fyrchek	Inside and Outside	-/60/60 or 60/60/60
Steel	Horizontal or vertical fixed to frame*	1 x 13mm or 1 x 16mm Fyrchek	Inside and Outside	-/60/60 or 60/60/60
Timber or Steel	Horizontal or vertical fixed to frame*	Standard grade plasterboard	Outside Only	-/90/90 (or 90/90/90)
Timber or Steel	Horizontal or vertical fixed to frame*	2 x 13mm or 1 x 16mm Fyrchek	Inside and Outside	-/90/90 (or 90/90/90)

*Installation requirements as per A5 of this Certificate of Conformity.

Note: Stud Spacings at 450mm or 600mm centres dependent on applied loading including wind.

Source: IGNIS Labs Pty Ltd; Report No. IGNL-7109 I01 R01 Hebel Wall Compliance dated 18/05/2023.

Construction in Bushfire Prone Areas [H7D4 & G5D3]

The Bushfire performance of the Hebel® Low Rise Multi-Residential External Wall systems has been assessed in accordance with AS 1530.8.2-2018 and meeting the requirements of AS 3959-2018 clause 3.8 as appropriate for use in areas that are considered BAL-FZ exposure.

Source: CSIRO; NATA Accreditation No. 165; Report No. FCO-3451 Revision E dated 30/06/2026.

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Energy efficiency

Thermal Properties of 50mm Hebel® PowerPanel50 (dry density 510 kg/m³) Wall Systems

[J4D6 &
H6D2(1)(b)(i)]

Description	Insulation Path		Overall (Pine Framing 12.13% area)		Overall (Steel framing 9.5% area)	
	Total R _T , m² K/W		Total R, m² K/W		Total R, m² K/W	
	Summer	Winter	Summer	Winter	Summer	Winter
50mm Hebel® PowerPanel ⁵⁰ (4% M.C.), 24mm unventilated semi-reflective air space, Bradford Polyair Performa 4.0 XHD eR0.05/R0.03, 64mm unventilated reflective air space (stud frame), 10mm Gyprock Plasterboard Plus (5.7kg/m²)	R1.89	R1.93	-	-	R1.81	R1.85
50mm Hebel® PowerPanel ⁵⁰ (4% M.C.), 24mm unventilated semi-reflective air space, Bradford Thermoseal Wall Wrap XP e=R0.09*R1.36/R0.87, SoundScreen Tech Wall Batts R2.0, 10mm Gyprock Plasterboard Plus (5.7kg/m²)	R2.84	R2.98	-	-	R2.44	R2.56
50mm Hebel® PowerPanel ⁵⁰ (4% M.C.), 24mm unventilated nonreflective air space, Bradford Enviroseal™ Plus, SoundScreen Tech Wall Batts R2.0, 10mm Gyprock Plasterboard Plus (5.7kg/m²)	R2.50	R2.64	-	-	R2.00	R2.11
50mm Hebel® PowerPanel ⁵⁰ (4% M.C.), 31mm unventilated semi-reflective air space, Bradford Polyair Performa 4.0 XHD eR0.05/R0.03, 64mm unventilated reflective air space (stud frame), 10mm Gyprock Plasterboard Plus (5.7kg/m²)	R1.89	R1.93	-	-	R1.81	R1.85
50mm Hebel® PowerPanel ⁵⁰ (4% M.C.), 35mm unventilated semi-reflective air space, Bradford Thermoseal Wall Wrap XP e=R0.09*R1.36/R0.87, SoundScreen Tech Wall Batts R2.0, 10mm Gyprock Plasterboard Plus (5.7kg/m²)	R2.84	R2.98	-	-	R2.44	R2.56
50mm Hebel® PowerPanel ⁵⁰ (4% M.C.), 35mm unventilated semi-reflective air space, Bradford Thermoseal Wall Wrap XP e=R0.09*R1.36/R0.87, SoundScreen Tech Wall Batts R2.0, 10mm Gyprock Plasterboard Plus (5.7kg/m²)	R2.50	R2.64	-	-	R2.00	R2.11
50mm Hebel® PowerPanel ⁵⁰ (4% M.C.), 12mm unventilated semi-reflective air space, Bradford Polyair Performa 4.0 XHD eR0.05/R0.03, 64mm unventilated reflective air space (stud frame), 10mm Gyprock Plasterboard Plus (5.7kg/m²)	R1.70	R1.72	-	-	R1.61	R1.63
50mm Hebel® PowerPanel ⁵⁰ (4% M.C.), 16mm unventilated semi-reflective air space, Bradford Thermoseal Wall Wrap XP e=R0.09*R1.36/R0.87, SoundScreen Tech Wall Batts R2.0, 10mm Gyprock Plasterboard Plus (5.7kg/m²)	R2.77	R2.91	-	-	R2.36	R2.46
50mm Hebel® PowerPanel ⁵⁰ (4% M.C.), 16mm unventilated nonreflective air space, Bradford Enviroseal™ Plus, SoundScreen Tech Wall Batts R2.0, 10mm Gyprock Plasterboard Plus (5.7kg/m²)	R2.49	R2.63	-	-	R1.99	R2.09
50mm Hebel® PowerPanel ⁵⁰ (4% M.C.), 20mm unventilated semi-reflective air space, Bradford Polyair Performa 4.0 XHD eR0.05/R0.03, 70mm unventilated reflective air space (stud frame), 10mm Gyprock Plasterboard Plus (5.7kg/m²)	R1.89	R1.93	R1.92	R1.96	-	-
50mm Hebel® PowerPanel ⁵⁰ (4% M.C.), 24mm unventilated semi-reflective air space, Bradford Thermoseal Wall Wrap XP e=R0.09*R1.36/R0.87, SoundScreen Tech Wall Batts R2.0, 10mm Gyprock Plasterboard Plus (5.7kg/m²)	R2.97	R3.13	R2.78	R2.91	-	-
50mm Hebel® PowerPanel ⁵⁰ (4% M.C.), 24mm unventilated nonreflective air space, Bradford Enviroseal™ Plus, SoundScreen Tech Wall Batts R2.0, 10mm Gyprock Plasterboard Plus (5.7kg/m²)	R2.63	R2.79	R2.43	R2.56	-	-
50mm Hebel® PowerPanel ⁵⁰ (4% M.C.), 31mm unventilated semi-reflective air space, Bradford Polyair Performa 4.0 XHD eR0.05/R0.03, 70mm unventilated reflective air space (stud frame), 10mm Gyprock Plasterboard Plus (5.7kg/m²)	R1.89	R1.93	R1.92	R1.96	-	-
50mm Hebel® PowerPanel ⁵⁰ (4% M.C.), 35mm unventilated semi-reflective air space, Bradford Thermoseal Wall Wrap XP e=R0.09*R1.36/R0.87, SoundScreen Tech Wall Batts R2.0, 10mm Gyprock Plasterboard Plus (5.7kg/m²)	R2.95	R3.16	R2.77	R2.93	-	-
50mm Hebel® PowerPanel ⁵⁰ (4% M.C.), 35mm unventilated nonreflective air space, Bradford Enviroseal™ Plus, SoundScreen Tech Wall Batts R2.0, 10mm Gyprock Plasterboard Plus (5.7kg/m²)	R2.61	R2.82	R2.41	R2.58	-	-
50mm Hebel® PowerPanel ⁵⁰ (4% M.C.), 12mm unventilated semi-reflective air space, Bradford Polyair Performa 4.0 XHD eR0.05/R0.03, 70mm unventilated reflective air space (stud frame), 10mm Gyprock Plasterboard Plus (5.7kg/m²)	R1.70	R1.72	R1.72	R1.74	-	-
50mm Hebel® PowerPanel ⁵⁰ (4% M.C.), 16mm unventilated semi-reflective air space, Bradford Thermoseal Wall Wrap XP e=R0.09*R1.36/R0.87, SoundScreen Tech Wall Batts R2.0, 10mm Gyprock Plasterboard Plus (5.7kg/m²)	R2.90	R3.06	R2.71	R2.84	-	-
50mm Hebel® PowerPanel ⁵⁰ (4% M.C.), 16mm unventilated nonreflective air space, Bradford Enviroseal™ Plus, SoundScreen Tech Wall Batts R2.0, 10mm Gyprock Plasterboard Plus (5.7kg/m²)	R2.63	R2.78	R2.42	R2.55	-	-
50mm Hebel® PowerPanel ⁵⁰ (4% M.C.), 20mm unventilated semi-reflective air space, Bradford Polyair Performa 4.0 XHD eR0.05/R0.03, 90mm unventilated reflective air space (stud frame), 10mm Gyprock Plasterboard Plus (5.7kg/m²)	R1.89	R1.93	R1.92	R1.96	R1.81	R1.85

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50mm Hebel® PowerPanel ⁵⁰ (4% M.C.), 24mm unventilated semi-reflective air space, Bradford Thermosteal Wall Wrap XP e=R0.09*R1.36/R0.87, Bradford Gold Wall Comfort Touch™ Technology Wall Batts R2.0, 10mm Gyprock Plasterboard Plus (5.7kg/m ²)	R2.95	R3.16	R2.77	R2.93	R2.51	R2.67
50mm Hebel® PowerPanel ⁵⁰ (4% M.C.), 24mm unventilated nonreflective air space, Bradford Enviroseal™ Plus, Bradford Gold Wall Comfort Touch™ Technology Wall Batts R2.5, 10mm Gyprock Plasterboard Plus (5.7kg/m ²)	R3.11	R3.31	R2.78	R2.93	R2.32	R2.46
50mm Hebel® PowerPanel ⁵⁰ (4% M.C.), 24mm unventilated nonreflective air space, Bradford Enviroseal™ Plus, Bradford Gold Wall Comfort Touch™ Technology Wall Batts R2.7 HP, 10mm Gyprock Plasterboard Plus (5.7kg/m ²)	R3.32	R3.51	R2.91	R3.06	R2.42	R2.55
50mm Hebel® PowerPanel ⁵⁰ (4% M.C.), 31mm unventilated semi-reflective air space, Bradford Polyair Performa 4.0 XHD eR0.05/R0.03, 90mm unventilated reflective air space (stud frame), 10mm Gyprock Plasterboard Plus (5.7kg/m ²)	R1.89	R1.93	R1.92	R1.96	R1.81	R1.85
50mm Hebel® PowerPanel ⁵⁰ (4% M.C.), 35mm unventilated semi-reflective air space, Bradford Thermosteal Wall Wrap XP e=R0.09*R1.36/R0.87, Bradford Gold Wall Comfort Touch™ Technology Wall Batts R2.0, 10mm Gyprock Plasterboard Plus (5.7kg/m ²)	R2.95	R3.16	R2.77	R2.93	R2.51	R2.67
50mm Hebel® PowerPanel ⁵⁰ (4% M.C.), 35mm unventilated nonreflective air space, Bradford Enviroseal™ Plus, Bradford Gold Wall Comfort Touch™ Technology Wall Batts R2.5, 10mm Gyprock Plasterboard Plus (5.7kg/m ²)	R3.11	R3.31	R2.78	R2.93	R2.32	R2.46
50mm Hebel® PowerPanel ⁵⁰ (4% M.C.), 35mm unventilated nonreflective air space, Bradford Enviroseal™ Plus, Bradford Gold Wall Comfort Touch™ Technology Wall Batts R2.7 HP, 10mm Gyprock Plasterboard Plus (5.7kg/m ²)	R3.32	R3.51	R2.91	R3.06	R2.42	R2.55
50mm Hebel® PowerPanel ⁵⁰ (4% M.C.), 12mm unventilated semi-reflective air space, Bradford Polyair Performa 4.0 XHD eR0.05/R0.03, 90mm unventilated reflective air space (stud frame), 10mm Gyprock Plasterboard Plus (5.7kg/m ²)	R1.70	R1.72	R1.72	R1.74	R1.61	R1.63
50mm Hebel® PowerPanel ⁵⁰ (4% M.C.), 16mm unventilated semi-reflective air space, Bradford Thermosteal Wall Wrap XP e=R0.09*R1.36/R0.87, Bradford Gold Wall Comfort Touch™ Technology Wall Batts R2.0, 10mm Gyprock Plasterboard Plus (5.7kg/m ²)	R2.89	R3.08	R2.70	R2.85	R2.43	R2.57
50mm Hebel® PowerPanel ⁵⁰ (4% M.C.), 16mm unventilated nonreflective air space, Bradford Enviroseal™ Plus, Bradford Polymax Wall Batt R2.5, 10mm Gyprock Plasterboard Plus (5.7kg/m ²)	R3.11	R3.30	R2.77	R2.91	R2.31	R2.44
50mm Hebel® PowerPanel ⁵⁰ (4% M.C.), 16mm unventilated nonreflective air space, Bradford Enviroseal™ Plus, Bradford Gold Wall Comfort Touch™ Technology Wall Batts R2.7 HP, 10mm Gyprock Plasterboard Plus (5.7kg/m ²)	R3.31	R3.50	R2.91	R3.04	R2.41	R2.53

- Notes:**
- Above calculations all include 10mm Gyprock Plasterboard Plus (5.7 kg/m² density) indoor lining. Assumes Bradford Polyair Performa 4.0 XHD is compressed at fixings, so air space adjacent to it is reduced by its 4mm thickness.
 - Assumes thermal resistance of 50mm Hebel® PowerPanel⁵⁰ (dry density 510 kg/m³) is R0.313 m².K/W for 4.0% M.C.
 - Pine framing assumed to be 45mm wide and studs 600mm centres + top and bottom plates and one noggin.
 - Steel framing assumed to be 35mm thick and studs 600mm centres + top and bottom plates and one noggin. (No thermal break present).
 - For 6mm skim render, add R0.04 m².K/W. Total R would be almost the same with 20mm battens instead of 24mm.
 - Total R-values apply to installation of both vertically and horizontally orientated 50mm thick Hebel® PowerPanel⁵⁰ when fixed to the structural frame variety of battens/top hats as a cladding system.

Source: James M Fricker; Report i107w26011n-w2720; Thermal performance calculations to AS/NZS 4859 Parts 1 & 2:2018; Dated 08/03/2024.

Certificate of Conformity

Energy efficiency

[J4D6 &
H6D2(1)(b)(i)]

Thermal Properties of Hebel® PowerPanel⁵⁰ System with Thermoseal wall wrap PRIME

PowerPanel ^{XL} and Thermoseal wall wrap PRIME					Insulation path Total R, m ² K/W		Overall (90x45mm pine framing 12.13% area) Total R, m ² K/W		Overall (90x35mm pine framing 12.13% area) Total R, m ² K/W		Overall (Steel Framing 5.8% area) Total R, m ² K/W	
Panel	Frame	Insulation	Wall Wrap	Batten	Summer	Winter	Summer	Winter	Summer	Winter	Summer	Winter
PowerPanel ⁵⁰	90mm stud frame	No batts	Thermoseal wall wrap PRIME	24mm top hat	1.31	1.37	1.34	1.40	1.33	1.39	1.22	1.27
	70mm stud frame				1.31	1.37	1.32	1.38	1.33	1.39	1.21	1.27
	90mm stud frame	90mm Bradford Gold Wall Comfort Touch™ Technology Wall Batts R2.0			2.61	2.82	2.42	2.58	2.46	2.63	2.07	2.21
	70mm stud	75mm R1.5 batt			2.08	2.24	1.96	2.09	2.02	2.16	1.74	1.87

- Notes:**
- System Total R determinations based upon AS/NZS 4859 Parts 1&2:2018, Thermal insulation materials for buildings.
 - Overall Total R determinations include thermal bridging per the Standard and typical construction.
 - Pine framing assumed to be 45 or 35mm wide and studs 600mm centres + top and bottom plates and one noggin.
 - Steel framing assumed to be 35mm wide and studs 600mm centres + top and bottom plates and one noggin. (No thermal break present.)
 - Assumes thermal resistance of 75mm Hebel® PowerPanel (dry density 413kg/m³) is R0.60 m².K/W for 4.0% moisture content.
 - For 75mm 400 kg/m³ panels, the total R values will be slightly higher, thus the displayed values can be used conservatively for 400 kg/m³ wall panel systems.
 - Bradford Thermoseal Wall Wrap PRIME e0.9/0.05 assumed to have hemispherical infrared emittances as stated

Source: James M Fricker; Report 107w2509p-w26111p; Thermal performance calculations of Hebel® PowerPanel^{XL} and Thermoseal wall wrap PRIME to AS/NZS 4859 Parts 1 & 2:2018; Dated 15/04/2024.

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 [Houses and Low Rise Multi Residential PowerPanel50 External Walls Vertical & Horizontal Installation Guide version HELIT181AUG26](#).

Additional Requirements for Water Management - Weatherproofing:

1. The walls are constructed in accordance with AS 5146.3:2018.
2. Stud wall support frame to be designed and certified by others.
3. External coating system to be in accordance with AS 5146.3:2018 and comply with AS/NZS 4548.5-1999 and must be suitable and compatible with AAC substrate (with priming where required).
4. The first (texture) coat and second (finish) coats must be acrylic latex coatings complying with AS/NZS 4548.5-1999.
5. The coatings must be suitable and compatible with AAC Hebel substrate (with priming where required).
6. Coating manufacturer to specify minimum coating dry film thickness to comply with AS/NZS 4548.5-1999.
7. Coatings to comply with AS/NZS 4548.5-1999.
8. Xavier Knight validated the system to vary the minimum clearance from the bottom of the wall cladding under the BCA requirement to a minimum of 25mm provided the coating at the base of 50 and 75mm Hebel panels shall return to the underside of panel to ensure continuity of the weather tightness layer.

Additional Requirements for Hebel® PowerPanel50 system when installed with their base below ground when with their base below ground:

1. The building structural framing must be fabricated using either T2 (min) treated Timber stud framing or Lightweight Steel stud framing in accordance with the relevant codes and standards.
2. Face sealed construction of the Hebel® External wall is recommended, preventing moisture migration into the building. All penetrations, joints and interfaces shall be suitably sealed and maintained in accordance with the Hebel® external wall systems technical literature.
3. Sarking weatherproof membrane / barrier compliant with AS 4200.1 & installed in accordance with AS 4200.2 is required for all external walls. Sarking shall overlap Flashing / DPC.
4. Damp Proof Course & Flashing detail (in accordance with AS/NZS 2904:1995) at the base of the wall extending under the base of the Hebel® panels to the slab edge step. The DPC shall maintain a continuous damp barrier around the perimeter of the building.
5. Slab edge step down of minimum 150mm height (refer point 10 below), ensuring any moisture external to the wall may not flood the lowest level of wall frame and/or internal slab surface.
6. The base of the Hebel® panels must be coated with Hebel® Base Sealer prior to panel installation.
7. The lower 200mm of the front / external vertical face of the Hebel® panels must be coated with Wacker SILRES® BS Creme C sealer (Hebel® Base Sealer) after installation but prior to render coating, covering the panel to panel joints.
8. Hebel® Base Sealer is the only water repellent product approved for use on Hebel® products. The sealant prevents moisture from penetrating the Hebel® AAC material, however is moisture vapour permeable to permit release (by vapour transmission) of any moisture that may be present within the structure of the Hebel®.
9. The finishing render & coating system shall be in accordance with AS 5146.3 and/or CSR® Hebel® specifications.
10. The maximum depth of embedment of Hebel® panels below grade is 100mm (ie no more than 100mm above the lowest part of the Hebel® panels), any finished external surface must remain a minimum of 50mm below the level of the internal slab.
11. Hebel® panels must not be used to retain garden beds, earth, soil or other organic matter, Hebel® panels shall not be installed in retaining walls as infill panels or structural elements.
12. To promote drying of the soil and subsurface adjacent to the external wall, drainage of Concrete Pavements must fall away from the building at a minimum grade of 1:100, the minimum grade of Finished Ground (turf, bare earth etc) shall be 1:50.
13. Soil immediately adjacent to the external walls of the building (within 1 metre) shall be free draining soils, clay based soils must be removed and replaced with sandy base soils down to the lowest point of the slab edge beam.
14. Even when coated with Hebel® Base Sealer and render / finished coating systems, the builder must ensure external walls are not constantly wet.
15. Termite management systems installed shall be a reticulated chemical treatment system capable of regular replenishment of the treatment chemicals in accordance with the Durable Notice and APVMA approved Chemical label. Termite protection systems requiring regular inspection are not recommended.

Source: Clarkson Consulting Services Pty Ltd Report V1.1_260810 dated 10/08/2026.

Certificate of Conformity

A6 Other relevant technical data

Acoustic Properties

Based on expert opinion, predicted results for the panel only is:

$$R_w = 35 \text{ Ctr} = -4$$

Source: Acoustic Logic Consultancy Pty Ltd; Report No: 20130786.1/0209A/R0/GW; dated 2 September 2013.

Non-combustibility

The Certificate Holder has provided the Certificate of Test for Combustibility for Materials in accordance with AS 1530.1:1994 for Hebel® PowerPanel⁵⁰ Panel— Autoclaved Aerated Concrete (AAC). **The material is NOT deemed combustible - Limited to the PowerPanel⁵⁰ panel only.**

Source: CSIRO; NATA Accreditation No. 165; Report No. FNC12427A dated 02/09/2019.

Non Combustibility of Acratex and Rockcote coating systems

Acratex and Rockcote coatings:

	Dulux AcraTex	Rockcote
Primer	AcraTex Green Render Sealer; AcraTex AcraPrime WB	Masonry Primer Hi Op; Decorative AAC Texture Base
Texture/ Levelling Coat	AcraTex Coventry Coarse	Smooth Set 1mm; Quicksand spray acrylic
Texture & Finish	AcraTex AcraSkin AcraTex AcraShield	Armour Flex

All these Dulux AcraTex and Rockcote coatings satisfy the requirements discussed above for classification as paints and therefore fall under the exemption in NCC Part C2 Fire Resistance and Stability Clause C2D10 Non-combustible building elements cl. C2D10 (4) (o) A paint, lacquer or a similar finish or coating.

Source: The Coatings Consultancy Pty Ltd; Reference No. TCC18056-20230518; NCC Non-Combustibility Requirements for External Coatings of Hebel High Rise Facade Systems; Dated 18/05/2023.

APPENDIX B – EVALUATION STATEMENTS

B1 Evaluation methods

1. Ancillary Provisions A5G3(1)(d). A report issued by an Accredited Testing Laboratory.
2. Condensation Management Provisions A5G3(1)(e). A report from a professional engineer or other appropriately qualified person.
3. Energy Efficiency Provisions A5G3(1)(e). A report from a professional engineer or other appropriately qualified person.
4. Fire Safety Provisions A5G3(1)(d). A report issued by an Accredited Testing Laboratory.
5. Structural Resistance Provisions A5G3(1)(e). A report from a professional engineer or other appropriately qualified person.
6. Weatherproofing Provisions A5G3(1)(e). A report from a professional engineer.

B2 Reports

1. Compliance with B1P1(1), (3)(a),(b),(c) & (d) and H1P1(1), (3)(a),(b),(c) & (d) is based on the following reports:
 - a. PACE Structural Pty Ltd; File PS20145; Structural Design Certificate – Hebel® PowerPanel⁵⁰ External Walls; Dated 19/08/2026.
2. Compliance with F1P1 & H2P2 is based on the following reports:
 - a. Xavier Knight; Report No. 220912 260828 Rev 00; Weatherproofing Assessment Hebel External Wall Systems in low-rise buildings; Dated 28/06/2026.
 - b. Clarkson Consulting Services Pty Ltd; Damp Proof & Drainage Performance Solution Report for Hebel® External Wall Systems; Dated 10/08/2026
 - c. The Coatings Consultancy Pty Ltd; Reference No. TCC26075-20260807; Clearance between external Hebel® PowerPanel Walls and Finished Ground Level; Dated 07/08/2026
3. Compliance with C2D2(2) and H3D3 is based on the following reports:
 - a. CSIRO; NATA Accreditation No. 165; Report No. FCO-3241 Revision D; Fire resistance in accordance with AS1530.4:2014; Dated 03/12/2024.
 - b. Ignis Labs Pty Ltd; Report No. IGNL-7109 I01 R01; Hebel® External Wall Compliance Fire Resistance Level; Dated 18/05/2023.
4. Compliance with G5D3 & H7D4 is based on the following reports:
 - a. CSIRO; NATA Accreditation No. 165; Report No. FCO-3451 Revision E; Bushfire performance of CSR Hebel PowerPanel external wall systems in accordance with AS 1530.8.2-2018; Dated 30/06/2026.
5. Contributing compliance with J4D6 and H6D2(1)(b)(i) is based on the following reports:
 - a. James M Fricker Pty Ltd; Report Number 107w26011n-w2720; Thermal performance calculations to AS/NZS 4859 Parts 1 & 2:2018; Dated 08/03/2024
 - b. James M Fricker Pty Ltd; Report Number 107w2509p-w26111p; Thermal performance calculations of Hebel® PowerPanel⁵⁰ with Thermoseal wall wrap PRIME in accordance with AS/NZS 4859 Parts 1 & 2:2018; Dated 15/04/2024.
6. Compliance with F8P1 and H4P7 is based on the following reports:
 - a. Makao Group Pty Ltd; Rev G; Hygrothermal Modelling Verification Report - CSR Hebel PowerPanel Wall Assemblies - Scope 2.2; Dated 11/08/2026.

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

Certification Body:



ABN: 81 663 250 815
JAS-ANZ Accreditation
No. Z4450210AK
PO Box 273,
Palmwoods Qld 4555
Australia
P: +61 7 5445 2199
www.cmicert.com.au
office@cmicert.com.au

Certificate Holder:



CSR Hebel®
ABN: 55 008 631 356
Trinity 3, 39 Delhi Rd
North Ryde,
NSW 2113
Locked Bag 1345,
North Ryde BC
NSW 1670
Australia
P: 1300 712 896
www.hebel.com.au

Certificate number: CM40233 Rev2

THIS IS TO CERTIFY THAT

Low Rise Multi Residential Hebel® PowerPanel⁵⁰ AAC External Wall System

Type and/or use of product:

Low Rise Multi Residential External Wall System.

Description of product:

Low Rise Multi Residential Hebel® PowerPanel⁵⁰ comprises a steel reinforced 50mm non load bearing Autoclaved Aerated Concrete (AAC) 510kg/m³ panel, comprising several proprietary components installed vertically and horizontally.

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

BCA 2022 (Amdt. 2)

	Volume One	Volume Two
Performance Requirement(s):	B1P1(1), (2)(a), (b), (c) & (d) F3P1	H1P1(1), (2)(a), (b), (c) & (d) H2P2
	Structural reliability – Subject to <i>limitations and conditions 1-9</i> Weatherproofing subject to <i>limitation and condition 10 & 11.</i>	Structural reliability and resistance – Subject to <i>limitations and conditions 1-9</i> Weatherproofing subject to <i>limitation and condition 10 & 11.</i>
Deemed-to-Satisfy Provision(s):	C2D2(2) F8D3 G5D3 J4D6	H3D3 H4D9 H7D4 H6D2(1)(b)(i)
	Fire resistance and stability – FRL varies, dependant of the configuration of the wall subject to <i>limitation and condition 3.</i> Condensation management - Pliable building membrane subject to <i>limitation and condition 12.</i> Construction in bushfire prone areas – BAL-FZ subject to <i>limitation and condition 13.</i> Energy efficiency – External walls. Can be used in conjunction with other building elements to achieve a Total R Value. Refer A3	Fire separation of external walls – Construction of external walls. FRL varies, dependant of the configuration of the wall subject to <i>limitation and condition 3.</i> Condensation management - Pliable building membrane subject to <i>limitation and condition 12.</i> Construction in bushfire prone areas – BAL-FZ subject to <i>limitation and condition 13.</i> Energy efficiency – External walls. Can be used in conjunction with other building elements to achieve a Total R Value. Refer A3
State or territory variation(s):	C2D2(2)(SA), G5D3 (NSW), Part J4 (NT), J4D6 (NSW)	H4D9 (TAS), Part H6 (NSW, NT & TAS), H6D2 (VIC), H7D4 (NSW, QLD & SA)

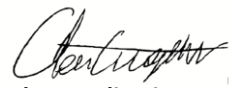
SUBJECT TO THE FOLLOWING LIMITATIONS AND CONDITIONS AND THE PRODUCT TECHNICAL DATA IN APPENDIX A AND EVALUATION STATEMENTS IN APPENDIX B

Limitations and conditions:

- Installation must be in accordance with [Houses and Low Rise Multi Residential PowerPanel⁵⁰ External Walls Vertical & Horizontal Installation Guide version HELIT181AUG26.](#)

Building classification/s:

Class 1,2,3,4,5,6,7,8,9 & 10


Glen Gugliotti – CMI



Don Grehan – Unrestricted Building Certifier

Date of issue: 03/09/2026

Date of expiry: 07/10/2027



Certificate of Conformity

2. Where the NCC requires building elements and/or ancillary elements to be non-combustible or achieve specific fire resisting performance requirements, the Hebel® PowerPanel^{ISO} Wall System must be constructed to satisfy such requirements as relevant to the determined building class(es).
3. Compliance with FRL is dependent on the system details specified in A3. Any deviations are outside the scope of this Certificate of Conformity.
4. Construction methods for external walls required to be fire resisting in relation to class 1 and 10 buildings and structures must comply with Part 9.2 of the ABCB Housing Provisions.
5. Reference to the use of timber framing systems in Section A3 is strictly limited to Class 1 & 10 Buildings and structures, Class 2 – 9 Buildings of Type C Construction or otherwise where concession for timber framed construction apply.
6. Timber stud framing must be constructed in accordance with AS 1684 National Timber Framing Code & steel stud framing must be constructed in accordance with the Nash Standard for residential and low rise steel framing.
7. Structural compliance B1P1(2)(c) or H1P1(2)(c) covers wind classifications N1-N4 & C1-C2. Structural compliance does not cover wind classifications N5, N6, C3 & C4.
8. The Low Rise Multi Residential Hebel® PowerPanel AAC External Wall System has not been tested and certified for impact loading from windborne debris in Region C and D as denoted in AS/NZS 1170.2:2021(Amendment 2 2024). The building designer should take into consideration internal pressure resulting from dominant openings.
9. Design certification for earthquake loading compliance to B1P1(2)(d) or H1P1(2)(d) in accordance with AS 1170.4:2007(Amd 2:2018) excludes Meckering Regions and Island Regions. Components approved under this Certificate of Conformity are not part of the seismic-force-resistance system in B1P1(2)(d) or H1P1(2)(d).
10. Compliance with F3P1 Weatherproofing & H2P2 Weatherproofing is limited to the systems detailed in A3, deviations are outside the scope of this Certificate of Conformity and will be subject to site specific design and approval by the regulatory authority. The site-specific building must:
 - a. Class 1 and 10 buildings with a wind classification not exceeding N3wserv as per AS 4055:2021, provided the ultimate limit state wind pressure is also below 2.5 kPa.
 - b. Class 2-9 buildings of Type C construction having a serviceability wind pressure not exceeding +0.68/-1.27 kPa, provided the ultimate limit state wind pressure is also below 2.5 kPa.
 - c. External walls with a risk score of max 20, determined in accordance with the NCC verification method table F3V1a or H2V1a as appropriate.
 - d. Windows/doors must comply with AS 2047.
11. Clearance from the underside of the panel to the finished surface level below must comply with Part 7.5.7 of the ABCB Housing Provisions however, may be reduced to a minimum of 25mm where the design wind speed does not exceed N3 and the product is installed in accordance with [Houses and Low Rise Multi Residential PowerPanel^{ISO} External Walls Vertical & Horizontal Installation Guide version HELIT181AUG26](#) incorporating [Hebel® Technical Update \(TU-033 Rev 1\) dated 06/08/2026](#).
12. Condensation Management compliance is dependent on the installation of a AS 4200.1:2017 compliant pliable building membrane installed in accordance with AS 4200.2:2017 as outlined in [Houses and Low Rise Multi Residential PowerPanel^{ISO} External Walls Vertical & Horizontal Installation Guide version HELIT181AUG26](#). The compliant pliable building membrane must be located on the exterior side of the primary insulation layer of wall assemblies that form the external envelope of a building
13. Compliance with BAL must 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. When constructing in BAL – FZ a minimum setback distance of 10m from the edge of the classified vegetation is required. 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
14. Other than the items and information listed, the remainder of the information contained in the product's literature is outside the Scope of Certification.
15. 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.

Certificate of Conformity

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.

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

As per page 1.

A2 Description of product

Hebel® PowerPanel⁵⁰ Wall System Components

Component	Description			
Hebel® PowerPanel	The Hebel® PowerPanel ⁵⁰ is a 50mm thick AAC panel with a minimum nominal dry density of 510kg/m³ and up to 3000mm length, installed vertically and horizontally to timber or steel framing via top hats:			
	Thickness: 50mm			
	Standard Width: 600mm			
	Standard Length Vertical: 2400, 2550, 2700, 2800, 2850 & 3000mm.			
	Standard Length Horizontal: 2000, 2200 & 2400mm			
	Reinforcement up to 2700mm panel length: 5 x 4mm or 4.5mm longitudinal steel bars			
	Reinforcement up to 2700mm – 3000mm panel length: 5 x 4.5mm or 5.0mm longitudinal steel bars			
	Nominal Dry Density: 510 kg/m³			
Top Hat	Hebel® Perforated Top Hats are used to vertically fix the Hebel® PowerPanel ⁵⁰ panel to the structural support framing. There are two nominal widths available: 24mm and 35mm – incorporating perforated flanges for ease of installation on to external wall frame.			
	Nominal widths	Minimum thickness	Minimum yield strength	Coating class
	24mm	0.42mm BMT	550MPa (zincalume)	AZ150
	35mm	0.55mm BMT	270MPa (Galvabond)	Z275
Horizontal Battens	Refer Table 3.2.1 in section 3.2 of Houses and Low Rise Multi Residential PowerPanel50 External Walls Vertical & Horizontal Installation Guide version HELIT181APRIL24 for the options for PowerPanel ⁵⁰ horizontal installation Batten components.			
Fasteners & Fixing	Fixing of top hat to timber stud frame; 12-11x35mm hex head type 17 screw.			
	Fixing of top hat to steel framing; 10-16x16mm hex head self-drilling screw.			
	Fixing of Hebel® PowerPanel ⁵⁰ panels to top hat 14-10x65mm bugle head type 17 screw.			
Hebel® Mortar	Hebel® Mortar when required is used as a thick bed mortar base to provide a level base for Hebel® PowerPanel ⁵⁰ installation as well as providing acoustic and fire protection at the base of the panels.			
Hebel® Adhesive	Hebel Adhesive is used for gluing the Hebel® PowerPanel ⁵⁰ panels together at vertical and horizontal joints.			
Hebel® Patch	Minor chips or damage to Hebel® PowerPanel ⁵⁰ panels are to be repaired using Hebel Patch.			
Hebel® Anti Corrosion Protection Paint	To coat exposed reinforcement during cutting.			
Hebel® external Aluminium Render Bead (optional)	Hebel® external Aluminium Render Bead is used to provide neat and consistent horizontal control joints. *Note; this option is not a Fire Rated option.			
Wall Wrap	Thermoseal Wall Wrap XP, Enviroseal™ Plus, Enviroseal™ Aero, Thermoseal Wall Wrap PRIME, Polyair Performa 4.0 XHD.			

Certificate of Conformity

A3 Product specification

The properties of the wall systems relevant to the Hebel® PowerPanel⁵⁰ Wall System, as described herein, vary with the configuration of the wall structure; It is therefore considered essential that this certificate be read in conjunction with [Houses and Low Rise Multi Residential PowerPanel50 External Walls Vertical & Horizontal Installation Guide version HELIT181AUG26](#).

Structural Reliability and Resistance

[H1P1(1), (2)(a), (b), (c) & (d) & B1P1(1), (2)(a), (b), (c) & (d)]

Structural capacity design calculations for strength and serviceability requirements were carried out in accordance with the current relevant building and structural engineering codes in particular; AS1170.0:2002 (Amendment 5), AS1170.1:2002 (Amendment 2), AS1170.2:2021 (Amendment 2 2024), AS1170.4:2024, AS4055:2021 (Amendment 1 2024), AS5146.2:2018, AS5216:2021. Structural compliance B1P1(3)(c) & H1P1(3)(c) covers wind classifications N1-N4 & C1-C2 as per Tables 2.2.1, 2.2.2, 2.2.3 & 2.2.4, in Section 2.2 and Table 3.2.2 in Section 3.2 of [Houses and Low Rise Multi Residential PowerPanel50 External Walls Vertical & Horizontal Installation Guide version HELIT181AUG26](#). Structural compliance does not cover wind classifications N5, N6, C3 & C4.

Source: PACE Structural Pty Ltd, Reports No. PS20145 dated 19/08/2026.

Condensation Management

[F8D3 & H4D9]

Compliance with F8D3 & H4D9 for *Condensation and water vapour management* is satisfied when a pliable building membrane is recommended or required it must be installed in accordance with AS 4200.2:2017 and [Houses and Low Rise Multi Residential PowerPanel50 External Walls Vertical & Horizontal Installation Guide version HELIT181AUG26](#)

Source: Houses and Low Rise Multi Residential PowerPanel50 External Walls Vertical & Horizontal Installation Guide version HELIT181APRIL24

Weatherproofing

[F3P1 & H2P2]

Compliance with F3P1 Water Management & H2P2 Weatherproofing are considered to be met for the Hebel systems, based on a combination of testing to the Verification Method, Comparisons with the deemed-to-satisfy requirements, and the designs reflected in technical manual listed in A5, providing that the site-specific building has the following:

- Class 1 and 10 buildings with a wind classification not exceeding N3wserv as per AS 4055:2021, provided the ultimate limit state wind pressure is also below 2.5 kPa.
- Class 2-9 buildings of Type C construction having a serviceability wind pressure not exceeding +0.68/-1.27 kPa, provided the ultimate limit state wind pressure is also below 2.5 kPa.
- External walls with a risk score of max 20, determined in accordance with the NCC verification method table F3V1a or H2V1a as appropriate.
- Windows/doors must comply with AS 2047

Note: It is the responsibility of the project designer or engineer to identify and mitigate moisture related risks associated with any particular building design.

Refer to A5 Installation Requirements for Additional Requirements for Weatherproofing.

Source: Xavier Knight; Weatherproofing Assessment, Report Reference 220912 260828 Rev00 Weatherproofing assessment Hebel External Wall Systems in low-rise buildings XK dated 28/08/2026.

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Fire resistance and stability – Fire separation of external walls [C2D2(2) & H3D3]

FRL of 90/90/90 was achieved from panel side only when tested in accordance with AS 1530.4-2014 by CSIRO.

Source: CSIRO, Report No: FCO-3241 Revision D; dated 03/12/2024.

Refer [Houses and Low Rise Multi Residential PowerPanel50 External Walls Vertical & Horizontal Installation Guide version HELIT181AUG26](#) the following system configurations that achieve an FRL of 90/90/90.

Figure	FRL	Figure	FRL
2.9.3.1	90/90/90	3.5.4.4	90/90/90
2.9.4.7	90/90/90	3.5.5.1	90/90/90
2.9.6.1	90/90/90	3.5.7.1	90/90/90
2.9.6.2	90/90/90	3.5.7.2	90/90/90
2.9.6.5	90/90/90	3.5.7.3	90/90/90
2.9.6.9	90/90/90	3.5.7.7	90/90/90
2.9.6.10	90/90/90	3.5.7.8	90/90/90

Variations to linings and framing

Frame	Orientation of panel	Interior Lining	Direction of Fire	FRL
Timber or Steel	Horizontal or vertical fixed to frame*	Standard grade plasterboard	Outside Only	-/60/60 or 60/60/60
Timber	Horizontal or vertical fixed to frame*	1 x 16mm Fyrchek	Inside and Outside	-/60/60 or 60/60/60
Steel	Horizontal or vertical fixed to frame*	1 x 13mm or 1 x 16mm Fyrchek	Inside and Outside	-/60/60 or 60/60/60
Timber or Steel	Horizontal or vertical fixed to frame*	Standard grade plasterboard	Outside Only	-/90/90 (or 90/90/90)
Timber or Steel	Horizontal or vertical fixed to frame*	2 x 13mm or 1 x 16mm Fyrchek	Inside and Outside	-/90/90 (or 90/90/90)

*Installation requirements as per A5 of this Certificate of Conformity.

Note: Stud Spacings at 450mm or 600mm centres dependent on applied loading including wind.

Source: IGNIS Labs Pty Ltd; Report No. IGNL-7109 I01 R01 Hebel Wall Compliance dated 18/05/2023.

Construction in Bushfire Prone Areas [H7D4 & G5D3]

The Bushfire performance of the Hebel® Low Rise Multi-Residential External Wall systems has been assessed in accordance with AS 1530.8.2-2018 and meeting the requirements of AS 3959-2018 clause 3.8 as appropriate for use in areas that are considered BAL-FZ exposure.

When constructing in BAL – FZ a minimum setback distance of 10m from the edge of the classified vegetation is required. It is the responsibility of the building designer to ensure compliance to AS 3959 is achieved in accordance with NCC.

Source: CSIRO; NATA Accreditation No. 165; Report No. FCO-3451 Revision E dated 30/06/2026.

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Energy efficiency Thermal Properties of 50mm Hebel® PowerPanel50 (dry density 510 kg/m³) Wall Systems

[J4D6 &
H6D2(1)(b)(i)]

Description	Insulation Path		Overall (Pine Framing 12.13% area)		Overall (Steel framing 9.5% area)	
	Total R _{ti} , m² K/W		Total R, m² K/W		Total R, m² K/W	
	Summer	Winter	Summer	Winter	Summer	Winter
50mm Hebel® PowerPanel ⁵⁰ (4% M.C.), 24mm unventilated semi-reflective air space, Bradford Polyair Performa 4.0 XHD eR0.05/R0.03, 64mm unventilated reflective air space (stud frame), 10mm Gyprock Plasterboard Plus (5.7kg/m²)	R1.89	R1.93	-	-	R1.81	R1.85
50mm Hebel® PowerPanel ⁵⁰ (4% M.C.), 24mm unventilated semi-reflective air space, Bradford Thermoseal Wall Wrap XP e=R0.09*R1.36/R0.87, SoundScreen Tech Wall Batts R2.0, 10mm Gyprock Plasterboard Plus (5.7kg/m²)	R2.84	R2.98	-	-	R2.44	R2.56
50mm Hebel® PowerPanel ⁵⁰ (4% M.C.), 24mm unventilated nonreflective air space, Bradford Enviroseal™ Plus, SoundScreen Tech Wall Batts R2.0, 10mm Gyprock Plasterboard Plus (5.7kg/m²)	R2.50	R2.64	-	-	R2.00	R2.11
50mm Hebel® PowerPanel ⁵⁰ (4% M.C.), 31mm unventilated semi-reflective air space, Bradford Polyair Performa 4.0 XHD eR0.05/R0.03, 64mm unventilated reflective air space (stud frame), 10mm Gyprock Plasterboard Plus (5.7kg/m²)	R1.89	R1.93	-	-	R1.81	R1.85
50mm Hebel® PowerPanel ⁵⁰ (4% M.C.), 35mm unventilated semi-reflective air space, Bradford Thermoseal Wall Wrap XP e=R0.09*R1.36/R0.87, SoundScreen Tech Wall Batts R2.0, 10mm Gyprock Plasterboard Plus (5.7kg/m²)	R2.84	R2.98	-	-	R2.44	R2.56
50mm Hebel® PowerPanel ⁵⁰ (4% M.C.), 35mm unventilated semi-reflective air space, Bradford Thermoseal Wall Wrap XP e=R0.09*R1.36/R0.87, SoundScreen Tech Wall Batts R2.0, 10mm Gyprock Plasterboard Plus (5.7kg/m²)	R2.50	R2.64	-	-	R2.00	R2.11
50mm Hebel® PowerPanel ⁵⁰ (4% M.C.), 12mm unventilated semi-reflective air space, Bradford Polyair Performa 4.0 XHD eR0.05/R0.03, 64mm unventilated reflective air space (stud frame), 10mm Gyprock Plasterboard Plus (5.7kg/m²)	R1.70	R1.72	-	-	R1.61	R1.63
50mm Hebel® PowerPanel ⁵⁰ (4% M.C.), 16mm unventilated semi-reflective air space, Bradford Thermoseal Wall Wrap XP e=R0.09*R1.36/R0.87, SoundScreen Tech Wall Batts R2.0, 10mm Gyprock Plasterboard Plus (5.7kg/m²)	R2.77	R2.91	-	-	R2.36	R2.46
50mm Hebel® PowerPanel ⁵⁰ (4% M.C.), 16mm unventilated nonreflective air space, Bradford Enviroseal™ Plus, SoundScreen Tech Wall Batts R2.0, 10mm Gyprock Plasterboard Plus (5.7kg/m²)	R2.49	R2.63	-	-	R1.99	R2.09
50mm Hebel® PowerPanel ⁵⁰ (4% M.C.), 20mm unventilated semi-reflective air space, Bradford Polyair Performa 4.0 XHD eR0.05/R0.03, 70mm unventilated reflective air space (stud frame), 10mm Gyprock Plasterboard Plus (5.7kg/m²)	R1.89	R1.93	R1.92	R1.96	-	-
50mm Hebel® PowerPanel ⁵⁰ (4% M.C.), 24mm unventilated semi-reflective air space, Bradford Thermoseal Wall Wrap XP e=R0.09*R1.36/R0.87, SoundScreen Tech Wall Batts R2.0, 10mm Gyprock Plasterboard Plus (5.7kg/m²)	R2.97	R3.13	R2.78	R2.91	-	-
50mm Hebel® PowerPanel ⁵⁰ (4% M.C.), 24mm unventilated nonreflective air space, Bradford Enviroseal™ Plus, SoundScreen Tech Wall Batts R2.0, 10mm Gyprock Plasterboard Plus (5.7kg/m²)	R2.63	R2.79	R2.43	R2.56	-	-
50mm Hebel® PowerPanel ⁵⁰ (4% M.C.), 31mm unventilated semi-reflective air space, Bradford Polyair Performa 4.0 XHD eR0.05/R0.03, 70mm unventilated reflective air space (stud frame), 10mm Gyprock Plasterboard Plus (5.7kg/m²)	R1.89	R1.93	R1.92	R1.96	-	-
50mm Hebel® PowerPanel ⁵⁰ (4% M.C.), 35mm unventilated semi-reflective air space, Bradford Thermoseal Wall Wrap XP e=R0.09*R1.36/R0.87, SoundScreen Tech Wall Batts R2.0, 10mm Gyprock Plasterboard Plus (5.7kg/m²)	R2.95	R3.16	R2.77	R2.93	-	-
50mm Hebel® PowerPanel ⁵⁰ (4% M.C.), 35mm unventilated nonreflective air space, Bradford Enviroseal™ Plus, SoundScreen Tech Wall Batts R2.0, 10mm Gyprock Plasterboard Plus (5.7kg/m²)	R2.61	R2.82	R2.41	R2.58	-	-
50mm Hebel® PowerPanel ⁵⁰ (4% M.C.), 12mm unventilated semi-reflective air space, Bradford Polyair Performa 4.0 XHD eR0.05/R0.03, 70mm unventilated reflective air space (stud frame), 10mm Gyprock Plasterboard Plus (5.7kg/m²)	R1.70	R1.72	R1.72	R1.74	-	-
50mm Hebel® PowerPanel ⁵⁰ (4% M.C.), 16mm unventilated semi-reflective air space, Bradford Thermoseal Wall Wrap XP e=R0.09*R1.36/R0.87, SoundScreen Tech Wall Batts R2.0, 10mm Gyprock Plasterboard Plus (5.7kg/m²)	R2.90	R3.06	R2.71	R2.84	-	-
50mm Hebel® PowerPanel ⁵⁰ (4% M.C.), 16mm unventilated nonreflective air space, Bradford Enviroseal™ Plus, SoundScreen Tech Wall Batts R2.0, 10mm Gyprock Plasterboard Plus (5.7kg/m²)	R2.63	R2.78	R2.42	R2.55	-	-

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50mm Hebel® PowerPanel ⁵⁰ (4% M.C.), 20mm unventilated semi-reflective air space, Bradford Polyair Performa 4.0 XHD eR0.05/R0.03, 90mm unventilated reflective air space (stud frame), 10mm Gyprock Plasterboard Plus (5.7kg/m ²)	R1.89	R1.93	R1.92	R1.96	R1.81	R1.85
50mm Hebel® PowerPanel ⁵⁰ (4% M.C.), 24mm unventilated semi-reflective air space, Bradford Thermoseal Wall Wrap XP e=R0.09*R1.36/R0.87, Bradford Gold Wall Comfort Touch™ Technology Wall Batts R2.0, 10mm Gyprock Plasterboard Plus (5.7kg/m ²)	R2.95	R3.16	R2.77	R2.93	R2.51	R2.67
50mm Hebel® PowerPanel ⁵⁰ (4% M.C.), 24mm unventilated nonreflective air space, Bradford Enviroseal™ Plus, Bradford Gold Wall Comfort Touch™ Technology Wall Batts R2.5, 10mm Gyprock Plasterboard Plus (5.7kg/m ²)	R3.11	R3.31	R2.78	R2.93	R2.32	R2.46
50mm Hebel® PowerPanel ⁵⁰ (4% M.C.), 24mm unventilated nonreflective air space, Bradford Enviroseal™ Plus, Bradford Gold Wall Comfort Touch™ Technology Wall Batts R2.7 HP, 10mm Gyprock Plasterboard Plus (5.7kg/m ²)	R3.32	R3.51	R2.91	R3.06	R2.42	R2.55
50mm Hebel® PowerPanel ⁵⁰ (4% M.C.), 31mm unventilated semi-reflective air space, Bradford Polyair Performa 4.0 XHD eR0.05/R0.03, 90mm unventilated reflective air space (stud frame), 10mm Gyprock Plasterboard Plus (5.7kg/m ²)	R1.89	R1.93	R1.92	R1.96	R1.81	R1.85
50mm Hebel® PowerPanel ⁵⁰ (4% M.C.), 35mm unventilated semi-reflective air space, Bradford Thermoseal Wall Wrap XP e=R0.09*R1.36/R0.87, Bradford Gold Wall Comfort Touch™ Technology Wall Batts R2.0, 10mm Gyprock Plasterboard Plus (5.7kg/m ²)	R2.95	R3.16	R2.77	R2.93	R2.51	R2.67
50mm Hebel® PowerPanel ⁵⁰ (4% M.C.), 35mm unventilated nonreflective air space, Bradford Enviroseal™ Plus, Bradford Gold Wall Comfort Touch™ Technology Wall Batts R2.5, 10mm Gyprock Plasterboard Plus (5.7kg/m ²)	R3.11	R3.31	R2.78	R2.93	R2.32	R2.46
50mm Hebel® PowerPanel ⁵⁰ (4% M.C.), 35mm unventilated nonreflective air space, Bradford Enviroseal™ Plus, Bradford Gold Wall Comfort Touch™ Technology Wall Batts R2.7 HP, 10mm Gyprock Plasterboard Plus (5.7kg/m ²)	R3.32	R3.51	R2.91	R3.06	R2.42	R2.55
50mm Hebel® PowerPanel ⁵⁰ (4% M.C.), 12mm unventilated semi-reflective air space, Bradford Polyair Performa 4.0 XHD eR0.05/R0.03, 90mm unventilated reflective air space (stud frame), 10mm Gyprock Plasterboard Plus (5.7kg/m ²)	R1.70	R1.72	R1.72	R1.74	R1.61	R1.63
50mm Hebel® PowerPanel ⁵⁰ (4% M.C.), 16mm unventilated semi-reflective air space, Bradford Thermoseal Wall Wrap XP e=R0.09*R1.36/R0.87, Bradford Gold Wall Comfort Touch™ Technology Wall Batts R2.0, 10mm Gyprock Plasterboard Plus (5.7kg/m ²)	R2.89	R3.08	R2.70	R2.85	R2.43	R2.57
50mm Hebel® PowerPanel ⁵⁰ (4% M.C.), 16mm unventilated nonreflective air space, Bradford Enviroseal™ Plus, Bradford Polymax Wall Batt R2.5, 10mm Gyprock Plasterboard Plus (5.7kg/m ²)	R3.11	R3.30	R2.77	R2.91	R2.31	R2.44
50mm Hebel® PowerPanel ⁵⁰ (4% M.C.), 16mm unventilated nonreflective air space, Bradford Enviroseal™ Plus, Bradford Gold Wall Comfort Touch™ Technology Wall Batts R2.7 HP, 10mm Gyprock Plasterboard Plus (5.7kg/m ²)	R3.31	R3.50	R2.91	R3.04	R2.41	R2.53

- Notes:**
- Above calculations all include 10mm Gyprock Plasterboard Plus (5.7 kg/m² density) indoor lining. Assumes Bradford Polyair Performa 4.0 XHD is compressed at fixings, so air space adjacent to it is reduced by its 4mm thickness.
 - Assumes thermal resistance of 50mm Hebel® PowerPanel⁵⁰ (dry density 510 kg/m³) is R0.313 m².K/W for 4.0% M.C.
 - Pine framing assumed to be 45mm wide and studs 600mm centres + top and bottom plates and one noggin.
 - Steel framing assumed to be 35mm thick and studs 600mm centres + top and bottom plates and one noggin. (No thermal break present).
 - For 6mm skim render, add R0.04 m².K/W. Total R would be almost the same with 20mm battens instead of 24mm.
 - Total R-values apply to installation of both vertically and horizontally orientated 50mm thick Hebel® PowerPanel⁵⁰ when fixed to the structural frame variety of battens/top hats as a cladding system.

Source: James M Fricker; Report i107w26011n-w2720; Thermal performance calculations to AS/NZS 4859 Parts 1 & 2:2018; Dated 08/03/2024.

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Energy efficiency

[J4D6 &
H6D2(1)(b)(i)]

Thermal Properties of Hebel® PowerPanel⁵⁰ System with Thermoseal wall wrap PRIME

PowerPanel ^{XL} and Thermoseal wall wrap PRIME					Insulation path Total R, m ² K/W		Overall (90x45mm pine framing 12.13% area) Total R, m ² K/W		Overall (90x35mm pine framing 12.13% area) Total R, m ² K/W		Overall (Steel Framing 5.8% area) Total R, m ² K/W	
Panel	Frame	Insulation	Wall Wrap	Batten	Summer	Winter	Summer	Winter	Summer	Winter	Summer	Winter
PowerPanel ⁵⁰	90mm stud frame	No batts	Thermoseal wall wrap PRIME	24mm top hat	1.31	1.37	1.34	1.40	1.33	1.39	1.22	1.27
	70mm stud frame				1.31	1.37	1.32	1.38	1.33	1.39	1.21	1.27
	90mm stud frame	90mm Bradford Gold Wall Comfort Touch™ Technology Wall Batts R2.0			2.61	2.82	2.42	2.58	2.46	2.63	2.07	2.21
	70mm stud	75mm R1.5 batt			2.08	2.24	1.96	2.09	2.02	2.16	1.74	1.87

- Notes:**
- System Total R determinations based upon AS/NZS 4859 Parts 1&2:2018, Thermal insulation materials for buildings.
 - Overall Total R determinations include thermal bridging per the Standard and typical construction.
 - Pine framing assumed to be 45 or 35mm wide and studs 600mm centres + top and bottom plates and one noggin.
 - Steel framing assumed to be 35mm wide and studs 600mm centres + top and bottom plates and one noggin. (No thermal break present.)
 - Assumes thermal resistance of 75mm Hebel® PowerPanel (dry density 413kg/m³) is R0.60 m².K/W for 4.0% moisture content.
 - For 75mm 400 kg/m³ panels, the total R values will be slightly higher, thus the displayed values can be used conservatively for 400 kg/m³ wall panel systems.
 - Bradford Thermoseal Wall Wrap PRIME e0.9/0.05 assumed to have hemispherical infrared emittances as stated

Source: James M Fricker; Report 107w2509p-w26111p; Thermal performance calculations of Hebel® PowerPanel^{XL} and Thermoseal wall wrap PRIME to AS/NZS 4859 Parts 1 & 2:2018; Dated 15/04/2024.

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 [Houses and Low Rise Multi Residential PowerPanel50 External Walls Vertical & Horizontal Installation Guide version HELIT181AUG26](#).

Additional Requirements for Water Management - Weatherproofing:

1. The walls are constructed in accordance with AS 5146.3:2018.
2. Stud wall support frame to be designed and certified by others.
3. External coating system to be in accordance with AS 5146.3:2018 and comply with AS/NZS 4548.5-1999 and must be suitable and compatible with AAC substrate (with priming where required).
4. The first (texture) coat and second (finish) coats must be acrylic latex coatings complying with AS/NZS 4548.5-1999.
5. The coatings must be suitable and compatible with AAC Hebel substrate (with priming where required).
6. Coating manufacturer to specify minimum coating dry film thickness to comply with AS/NZS 4548.5-1999.
7. Coatings to comply with AS/NZS 4548.5-1999.
8. Xavier Knight validated the system to vary the minimum clearance from the bottom of the wall cladding under the BCA requirement to a minimum of 25mm provided the coating at the base of 50 and 75mm Hebel panels shall return to the underside of panel to ensure continuity of the weather tightness layer.

Additional Requirements for Hebel® PowerPanel⁵⁰ system when installed with their base below ground when with their base below ground:

1. The building structural framing must be fabricated using either T2 (min) treated Timber stud framing or Lightweight Steel stud framing in accordance with the relevant codes and standards.
2. Face sealed construction of the Hebel® External wall is recommended, preventing moisture migration into the building. All penetrations, joints and interfaces shall be suitably sealed and maintained in accordance with the Hebel® external wall systems technical literature.
3. Sarking weatherproof membrane / barrier compliant with AS 4200.1 & installed in accordance with AS 4200.2 is required for all external walls. Sarking shall overlap Flashing / DPC.
4. Damp Proof Course & Flashing detail (in accordance with AS/NZS 2904:1995) at the base of the wall extending under the base of the Hebel® panels to the slab edge step. The DPC shall maintain a continuous damp barrier around the perimeter of the building.
5. Slab edge step down of minimum 150mm height (refer point 10 below), ensuring any moisture external to the wall may not flood the lowest level of wall frame and/or internal slab surface.
6. The base of the Hebel® panels must be coated with Hebel® Base Sealer prior to panel installation.
7. The lower 200mm of the front / external vertical face of the Hebel® panels must be coated with Wacker SILRES® BS Creme C sealer (Hebel® Base Sealer) after installation but prior to render coating, covering the panel to panel joints.
8. Hebel® Base Sealer is the only water repellent product approved for use on Hebel® products. The sealant prevents moisture from penetrating the Hebel® AAC material, however is moisture vapour permeable to permit release (by vapour transmission) of any moisture that may be present within the structure of the Hebel®.
9. The finishing render & coating system shall be in accordance with AS 5146.3 and/or CSR® Hebel® specifications.
10. The maximum depth of embedment of Hebel® panels below grade is 100mm (ie no more than 100mm above the lowest part of the Hebel® panels), any finished external surface must remain a minimum of 50mm below the level of the internal slab.
11. Hebel® panels must not be used to retain garden beds, earth, soil or other organic matter, Hebel® panels shall not be installed in retaining walls as infill panels or structural elements.
12. To promote drying of the soil and subsurface adjacent to the external wall, drainage of Concrete Pavements must fall away from the building at a minimum grade of 1:100, the minimum grade of Finished Ground (turf, bare earth etc) shall be 1:50.
13. Soil immediately adjacent to the external walls of the building (within 1 metre) shall be free draining soils, clay based soils must be removed and replaced with sandy base soils down to the lowest point of the slab edge beam.
14. Even when coated with Hebel® Base Sealer and render / finished coating systems, the builder must ensure external walls are not constantly wet.
15. Termite management systems installed shall be a reticulated chemical treatment system capable of regular replenishment of the treatment chemicals in accordance with the Durable Notice and APVMA approved Chemical label. Termite protection systems requiring regular inspection are not recommended.

Source: Clarkson Consulting Services Pty Ltd Report V1.1_260810 dated 10/08/2026.

A6 Other relevant technical data

Acoustic Properties

Based on expert opinion, predicted results for the panel only is:

Rw = 35 Ctr = -4

Source: Acoustic Logic Consultancy Pty Ltd; Report No: 20130786.1/0209A/R0/GW; dated 2 September 2013.

Non-combustibility

The Certificate Holder has provided the Certificate of Test for Combustibility for Materials in accordance with AS 1530.1:1994 for Hebel® PowerPanel⁵⁰ Panel– Autoclaved Aerated Concrete (AAC). **The material is NOT deemed combustible - Limited to the PowerPanel⁵⁰ panel only.**

Source: CSIRO; NATA Accreditation No. 165; Report No. FNC12427A dated 02/09/2019.

Non Combustibility of Acratex and Rockcote coating systems

Acratex and Rockcote coatings:

	Dulux AcraTex	Rockcote
Primer	AcraTex Green Render Sealer; AcraTex AcraPrime WB	Masonry Primer Hi Op; Decorative AAC Texture Base
Texture/ Levelling Coat	AcraTex Coventry Coarse	Smooth Set 1mm; Quicksand spray acrylic
Texture & Finish	AcraTex AcraSkin AcraTex AcraShield	Armour Flex

All these Dulux AcraTex and Rockcote coatings satisfy the requirements discussed above for classification as paints and therefore fall under the exemption in NCC Part C2 Fire Resistance and Stability Clause C2D10 Non-combustible building elements cl. C2D10 (4) (o) A paint, lacquer or a similar finish or coating.

Source: The Coatings Consultancy Pty Ltd; Reference No. TCC18056-20230518; NCC Non-Combustibility Requirements for External Coatings of Hebel High Rise Facade Systems; Dated 18/05/2023.

APPENDIX B – EVALUATION STATEMENTS

B1 Evaluation methods

1. Ancillary Provisions A5G3(1)(d). A report issued by an Accredited Testing Laboratory.
2. Condensation Management Provisions A5G3(1)(f). Another form of documentary evidence.
3. Energy Efficiency Provisions A5G3(1)(e). A report from a professional engineer or other appropriately qualified person.
4. Fire Safety Provisions A5G3(1)(d). A report issued by an Accredited Testing Laboratory.
5. Structural Resistance Provisions A5G3(1)(e). A report from a professional engineer or other appropriately qualified person.
6. Weatherproofing Provisions A5G3(1)(e). A report from a professional engineer.

B2 Reports

1. Compliance with B1P1(1), (2)(a),(b),(c) & (d) and H1P1(1), (2)(a),(b),(c) & (d) is based on the following reports:
 - a. PACE Structural Pty Ltd; File PS20145; Structural Design Certificate – Hebel® PowerPanel^{ISO} External Walls; Dated 19/08/2026.
2. Compliance with F3P1 & H2P2 is based on the following reports:
 - a. Xavier Knight; Report No. 220912 260828 Rev 00; Weatherproofing Assessment Hebel External Wall Systems in low-rise buildings; Dated 28/08/2026
 - b. Clarkson Consulting Services Pty Ltd; Damp Proof & Drainage Performance Solution Report for Hebel® External Wall Systems; Dated 10/08/2026
 - c. The Coatings Consultancy Pty Ltd; Reference No. TCC26075-20260807; Clearance between external Hebel® PowerPanel Walls and Finished Ground Level; Dated 07/08/2026
3. Compliance with C2D2(2) and H3D3 is based on the following reports:
 - a. CSIRO; NATA Accreditation No. 165; Report No. FCO-3241 Revision D; Fire resistance in accordance with AS1530.4:2014; Dated 03/12/2024.
 - b. Ignis Labs Pty Ltd; Report No. IGNL-7109 I01 R01; Hebel® External Wall Compliance Fire Resistance Level; Dated 18/05/2023.
4. Compliance with G5D3 & H7D4 is based on the following reports:
 - a. CSIRO; NATA Accreditation No. 165; Report No. FCO-3451 Revision E; Bushfire performance of CSR Hebel PowerPanel external wall systems in accordance with AS 1530.8.2-2018; Dated 30/06/2026.
5. Contributing compliance with J4D6 and H6D2(1)(b)(i) is based on the following reports:
 - a. James M Fricker Pty Ltd; Report Number 107w26011n-w2720; Thermal performance calculations to AS/NZS 4859 Parts 1 & 2:2018; Dated 08/03/2024
 - b. James M Fricker Pty Ltd; Report Number 107w2509p-w26111p; Thermal performance calculations of Hebel® PowerPanel^{ISO} with Thermoseal wall wrap PRIME in accordance with AS/NZS 4859 Parts 1 & 2:2018; Dated 15/04/2024.
6. Compliance with F8D3 and H4D9 is based on the following reports:
 - a. Houses and Low Rise Multi Residential PowerPanel^{ISO} External Walls Vertical & Horizontal Installation Guide version HELIT181AUG26.

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