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BCA 2022 – Refer to page 15 onwards

Certificate number: CM40049 Rev1

THIS IS TO CERTIFY THAT

Hebel® Houses and Low Rise Multi Residential PowerPanel^{XL} External Walls System
Hebel® Houses and Low Rise Multi Residential PowerProfile® External Walls System
Hebel® Houses and Low Rise Multi Residential PowerPattern® External Walls System

Type and/or use of product:

Wall Cladding System for Houses & Low Rise Multi-Residential External Walls.

Description of product:

Houses and Low Rise Multi-Residential External Wall Systems comprising several proprietary components including 75mm non load bearing steel reinforced Autoclaved Aerated Concrete (AAC) panels. Refer A2 below.

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) Structural reliability – Subject to the limitations and conditions outlined below. F1P1 Water Management -Weatherproofing. Refer Limitation and condition 9 & 10 F8P1 Condensation management	H1P1(1), (3)(a), (b), (c) & (d) Structural reliability and resistance – Subject to the limitations and conditions outlined below. H2P2 Weatherproofing – Refer Limitation and condition 9 & 10 H4P7 Condensation management
Deemed-to-Satisfy Provision(s):	C2D2(2) Fire resistance and stability – FRL varies, dependant of the configuration of the wall. Refer Limitation and condition 3. G5D3 Construction in bushfire prone areas – BAL-FZ subject to <i>Limitation and Condition 12 & 13.</i> J4D6 Energy efficiency – External walls. Can be used in conjunction with other building elements to achieve a Total R Value. Refer to A3	H3D3 Fire separation of external walls – Construction of external walls. FRL varies, dependant of the configuration of the wall. Refer Limitation and condition 3. H7D4 Construction in bushfire prone areas – BAL-FZ subject to <i>Limitation and Condition 12 & 13.</i> H6D2(1)(b)(i) Energy efficiency – External walls. Can be used in conjunction with other building elements to achieve a Total R Value. Refer to A3
State or territory variation(s):	G5D3 (NSW)	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:

1. Installation must be in accordance with appropriate documentation outlined in Section A5 Installation requirements of this Certificate of Conformity and subject to any other Condition & Limitation listed herein.

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: 14/08/2026

Date of expiry: 29/04/2028



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^{XL}, PowerProfile® and PowerPattern® Houses and Low Rise Multi-Residential External Wall Systems 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. The Hebel® PowerPanel^{XL}, PowerProfile® and PowerPattern® Houses and Low Rise Multi-Residential External Wall Systems have not been tested and certified for impact loading from windborne debris in Region C and D as denoted in AS/NZS 1170.2:2021. The building designer should take into consideration internal pressure resulting from dominant openings.
8. Design certification for earthquake loading compliance in accordance with AS 1170.4:2007(Amd 2:2018) excludes Meckering Regions and Island Regions. Components approved under this certificate are not part of the seismic-force- resisting system.
9. 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 a risk score of 20 or less, when the sum of all risk factor scores is determined in accordance with Table F1V1a/H2V1a; as appropriate, provided that the buildings parameters result in no item/s on the NCC's verification method risk rating table have a "very-high" risk severity.
 - b. include only windows that comply with AS 2047.
10. 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 [Hebel® Houses and Low Rise Multi Residential PowerPanelXL External Walls – Design and Installation Guide HELIT016AUG26](#), incorporating [Hebel® Technical Update \(TU-033 Rev 1\) dated 06/08/2026](#).
11. 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.
12. 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.
13. 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.



Certificate of Conformity

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® PowerPanel^{XL}, PowerProfile® and PowerPattern® Panels

Product	Hebel® PowerPanel ^{XL}	Hebel® PowerProfile®	Hebel® PowerPattern®
Thickness:	75mm	75mm	75mm
Standard Width:	600mm	600mm	600mm
Standard Length:	2400, 2550, 2700, 2800, 2850, 3000, 3300mm.	2400, 2550, 2700, 2800, 2850, 3000, 3300mm.	2400, 2700, 2850, 3000, 3300mm.
Reinforcement:	4 x 4mm longitudinal steel bars	4 x 4mm longitudinal steel bars	4 x 4mm longitudinal steel bars
Nominal Dry Density:	400 kg/m ³	400 kg/m ³	510 kg/m ³

Hebel® PowerPattern® Track routed with "V" groove lines are available in: 100mm, 150mm, 200mm and 300mm spacing. Also available as a plain panel with no groove (bevelled long edges)

Hebel® PowerProfile® consists of a Hebel® PowerPanel^{XL} and aluminium profile elements fixed externally.

Hebel® PowerPanel^{XL}, PowerProfile® and PowerPattern® Houses and Low Rise Multi-Residential External Wall Systems Components

Component	Description												
Universal Backing Clip:	Fixed to the Hebel® PowerProfile® Panel and a powder coated aluminium profile snaps onto the clip												
Top Hat	The Top Hats are used to fix the Hebel® PowerPanel^{XL}, PowerProfile® and PowerPattern® panels to the structural support framing. There are two nominal widths available: 24mm and 35mm – Incorporating perforated flanges for ease of installation onto external wall frames. <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										
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 Tek screw. Fixing of Hebel® PowerPanel^{XL}, PowerProfile® or PowerPattern® panels to top hat 14-10x90mm Hex Head Type 17 screw. Fixing of Hebel® PowerPanel^{XL}, PowerProfile® or PowerPattern® panels to Top Hat from inside of buildings 14-10x65mm Hex Head Type 17 Screw (Boundary walls only).												
Hebel® Mortar	Hebel® Mortar when required is used as a thick bed mortar base to provide a level base for Hebel® PowerPanel ^{XL} , PowerProfile® or PowerPattern® panels 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 ^{XL} , PowerProfile® or PowerPattern® Houses and Low Rise Multi-Residential External Wall Systems panels together at vertical and horizontal joints.												
Hebel® Patch	Minor Chips or damage to Hebel® PowerPanel ^{XL} , PowerProfile® or PowerPattern® panels are to be repaired using Hebel® Patch.												
Hebel® Anti Corrosion Protection Paint	To coat reinforcement steel that has been exposed during cutting of the panels.												
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, Thermoseal Wall Wrap PRIME, Polyair Performa 4.0 XHD.												

Certificate of Conformity

The properties of the Hebel® PowerPanelXL, PowerProfile® and PowerPattern® Houses and Low Rise Multi-Residential External Wall Systems, as described herein, vary with the configuration of the wall structure. It is therefore considered essential that this certificate be read in conjunction with Installation requirements in A5.

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-N5 & C1-C3 as per Table 1.2.1, 1.2.2, 1.2.3, 1.2.4, 1.2.5 and 1.2.6 of [Houses and Low Rise Multi Residential PowerPanelXL External Walls – Design and Installation Guide HELIT016AUG26](#). Installation must be in accordance with the relevant install guide as outlined in **A5 Installation requirements** of this *Certificate of Conformity*.

Source: PACE Structural Pty Ltd, Reports No. PS18153 dated 06/05/2026, PS20153 dated 06/08/2026 and PS20177 dated 10/08/2026.

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:

- a. have a risk score of 20 or less, when the sum of all risk factor scores is determined in accordance with Table F1V1a/H2V1a; as appropriate, provided that the buildings parameters result in no item/s on the NCC's verification method risk rating table have a "very-high" risk severity; and
- b. 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.

Source: Xavier Knight; Weatherproofing Assessment, Report Reference 220912 Weatherproofing assessment Hebel External Wall Systems in low-rise buildings XK 260811 Rev00 dated 11/08/2026.

Certificate of Conformity

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

Fire separation of external walls Hebel® PowerPanel^{XL} & Hebel® PowerProfile® Systems - Depending on the system configuration; Refer [Hebel® Houses and Low Rise Multi Residential PowerPanel^{XL} External Walls – Design and Installation Guide HELIT016AUG26](#) the following FRLs can be achieved.

HELIT016AUG26 Figures	Fire Resistance Level (FRL)
3.6.5.7	180/180/180 *
3.6.7.1	-/120/120
3.6.7.2	-/120/120
3.6.7.5	-/120/120
3.6.7.9	-/120/120
3.6.7.10	-/120/120

*For an FRL of 180/180/180 when using the Hebel® PowerPattern® System, the internal lining must consist of a minimum of 1 x 16 mm Fyrchek plasterboard. If a reduced FRL of 120/120/120 is required to be achieved, standard grade plasterboard may be used as per the tested system.

Variations to linings and framing

Frame	Orientation of panel	Interior Lining	Direction of Fire	FRL
Timber or Steel	Vertical fixed to frame*	Standard grade plasterboard	Outside Only	-/60/60 or 60/60/60
Timber	Vertical fixed to frame*	1 x 16mm Fyrchek	Inside and Outside	-/60/60 or 60/60/60
Steel	Vertical fixed to frame*	1 x 13mm or 1 x 16mm Fyrchek	Inside and Outside	-/60/60 or 60/60/60
Timber or Steel	Vertical fixed to frame*	Standard grade plasterboard	Outside Only	-/90/90 or 90/90/90
Timber or Steel	Vertical fixed to frame*	2 x 13mm or 1 x 16mm Fyrchek	Inside and Outside	-/90/90 or 90/90/90
Timber or Steel	Vertical fixed to frame*	Standard grade plasterboard	Outside Only	-/120/120 or 120/120/120
Timber or Steel	Vertical fixed to frame*	2 x 13mm or 2 x 16mm Fyrchek	Inside and Outside	-/120/120 or 120/120/120

*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 I01R01 dated 18/05/2023, CSIRO Ref No. FCO-3003 Rev F dated 03/12/2024 (**180/180/180 only**) and Warringtonfire Report No. 27915, Revision 28.3 dated 25/09/2024.

Fire resistance Level (FRL 180/180/180) - Compliance with FRL 180/180/180 subject to the following conditions:

- The AAC panel must be as described in A2 of this Certificate of Conformity.
- The wall may vary to include structural steel framing designed in accordance with AS 4600-2018 or NASH Standard part 2, or AS 3623 for ambient temperature and where appropriate, designed to support the weight of the panels.
- The wall may vary to include structural timber framing designed in accordance with AS 1720.1-2010(Amd 3:2015) or AS 1684 part 2, 3 or 4 for ambient temperature and where appropriate, designed to support the weight of the panels.
- Wall framing spacing may be up to 600-mm centres
- The Hebel® AAC shall be vertically orientated and fixed to steel tophats or timber battens as per test evidence within FCO-3003.
- Panels will be fixed through the panel into the battens/tophats.
- The panels shall be supported at the base with either slab, shelf angle, masonry wall or the panel below.
- Where the height per level is 3300mm or less, the panels are fixed to framing by steel tophat sections spaced at maximum 1200mm centres over the panel height, and top and bottom tophat at maximum 150mm from the panel ends.
- The Hebel® AAC panel shall be vertically orientated as per test evidence within FCO-3003, though may vary in length from 2.4m to 3.3m.
- The wall length may increase

Certificate of Conformity

- Panel to batten fixings spacings may decrease not increase
- Batten/tophat spacings may decrease not increase
- The inclusion of an additional panel fixing method (Hebel direct fix clip) as shown in HELIT016AUG26.
- The wall cavity may include sarking between batten and framing.
- The wall cavity may include glasswool, rockwool or any non-combustible insulation.
- The wall linings shall be one of the following;
 - 10mm Gyprock Plasterboard Plus.
 - Any other standard grade, water grade, acoustic grade, fire grade plasterboard manufactured in accordance with AS 2589 and with a density greater than 5.7kg/m2.
 - Fibre cement 6mm or thicker with or without tiles adhered.
- Where more than one level is constructed, a horizontal or vertical joint detail where applicable is to be followed as shown in HELIT016AUG26.
- Where a vertical control joint is required, the inclusion of Selleys FireBlock XT sealant as an alternative to the CSR FireSeal sealant.
- The gap at the base of the panels when used in conjunction with a concrete slab rebate as detailed in HELIT016AUG26 must follow as applicable:
 - Gaps less than 3mm wide - Hebel thick bed mortar
 - Gaps less than 10mm wide - Selleys Fireblock XT or CSR FireSeal for 10mm depth
 - Gaps less than 20mm wide - Selleys Fireblock XT or CSR FireSeal for 16mm depth
- Where Hebel® PowerPanels are supported by a steel shelf angle fixed to the vertical face of the concrete slab as detailed in HELIT016AUG26 must follow as applicable:
 - Selleys Fireblock XT is to be applied to all gaps at the base of the panels and between the steel shelf angle and the vertical face of the concrete slab.
 - The steel shelf angle is required to have a horizontal angle leg length of 75mm (BMT 1.2-mm) with a minimum of 40mm cover to the bottom of the Hebel® PowerPanel. The steel shelf angle is to be kept a minimum of 15mm clear of the timber bottom plate;
 - The steel shelf angle shall be installed in sections up to 3m long and at the ends or any joins in the angle, a 10mm gap filled with Selleys Fireblock XT is required. The angle is fixed to the slab edge at up to 900mm centres with a metal anchor.
- All soffit and eaves linings are to be designed to maintain the FRL of the external wall system.

Source: CSIRO Report No. FCO-3003 Rev F dated 03/12/2024.

**Construction in
Bushfire Prone Areas
[H7D4 & G5D3]**

The Bushfire performance of the Hebel® Low Rise Multi-Residential External Wall systems have 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.

Certificate of Conformity

Energy efficiency

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

Thermal Properties of Hebel® PowerPanel^{XL} and PowerProfile® Systems

75mm Hebel® 413kg/m³ PowerPanel ^{XL} Wall Systems Assumes 75mm Hebel® PowerPanel ^{XL} thermal resistance is R0.60 m².K/W for 4.0% moisture content					Insulation path Total R, m² K/W		Overall (Pine Framing 12.13% area) Total R, m² K/W		Overall (Steel Framing 5.8% area) Total R, m² K/W	
Stud Frame	Top Hat Cavity	Wall thickness mm	Batts	Wall Wrap	Summer	Winter	Summer	Winter	Summer	Winter
64mm Stud Frame	24mm	173	None	Polyair Performa 4.0 XHD	2.18	2.22	-	-	2.14	2.17
		173	70mm SoundScreen Tech Wall Batts R2.0	Thermoseal Wall Wrap XP	3.13	3.27	-	-	2.91	3.03
		173	70mm SoundScreen Tech Wall Batts R2.0	Enviroseal™ Plus	2.79	2.93	-	-	2.54	2.65
	35mm	184	None	Polyair Performa 4.0 XHD	2.18	2.22	-	-	2.14	2.17
		184	70mm SoundScreen Tech Wall Batts R2.0	Thermoseal Wall Wrap XP	3.13	3.27	-	-	2.91	3.03
		184	70mm SoundScreen Tech Wall Batts R2.0	Enviroseal™ Plus	2.79	2.93	-	-	2.54	2.65
70mm Stud Frame	24mm	179	None	Polyair Performa 4.0 XHD	2.18	2.22	2.19	2.22	-	-
		179	70mm SoundScreen Tech Wall Batts R2.0	Thermoseal Wall Wrap XP	3.26	3.42	3.03	3.15	-	-
		179	70mm SoundScreen Tech Wall Batts R2.0	Enviroseal™ Plus	2.93	3.08	2.68	2.79	-	-
	35mm	190	None	Polyair Performa 4.0 XHD	2.18	2.22	2.19	2.22	-	-
		190	70mm SoundScreen Tech Wall Batts R2.0	Thermoseal Wall Wrap XP	3.26	3.42	3.03	3.15	-	-
		190	70mm SoundScreen Tech Wall Batts R2.0	Enviroseal™ Plus	2.93	3.08	2.68	2.79	-	-
90mm or 92mm Stud Frame	24mm	199	None	Polyair Performa 4.0 XHD	2.18	2.22	2.21	2.24	2.14	2.18
		199	90mm Bradford Gold Wall Comfort Touch™ Technology Wall Batts R2.0	Thermoseal Wall Wrap XP	3.25	3.44	3.07	3.23	3.02	3.18
		199	90mm Bradford Gold Wall Comfort Touch™ Technology Wall Batts R2.5	Enviroseal™ Plus	3.41	3.60	3.09	3.24	3.02	3.17
		199	90mm Bradford Gold Wall Comfort Touch™ Technology Wall Batts R2.7	Enviroseal™ Plus	3.61	3.79	3.23	3.37	3.16	3.31
		210	None	Polyair Performa 4.0 XHD	2.18	2.22	2.21	2.24	2.14	2.18
		210	90mm Bradford Gold Wall Comfort Touch™ Technology Wall Batts R2.0	Thermoseal Wall Wrap XP	3.25	3.44	3.07	3.23	3.02	3.18
	35mm	210	90mm Bradford Gold Wall Comfort Touch™ Technology Wall Batts R2.5	Enviroseal™ Plus	3.41	3.60	3.09	3.24	3.02	3.17
		210	90mm Bradford Gold Wall Comfort Touch™ Technology Wall Batts R2.7	Enviroseal™ Plus	3.61	3.79	3.23	3.37	3.16	3.31
Notes:	- All above walls have 10mm Gyprock Plasterboard Plus indoor lining. - The above results are for 75mm Hebel® PowerPanel^{XL} (dry density 413kg/m³) external wall system with assumed thermal resistance of R0.60 m².K/W at 4% M.C.. - For 6mm skim render, Total R-values are R0.04 more than those above. Source: James M Fricker; Report 107w25011n_w2520; Thermal performance calculations to AS/NZS 4859 Parts 1 & 2:2018; Dated 29/04/2024.									

Certificate of Conformity

Energy efficiency

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

Thermal Properties of Hebel® PowerPattern® System

75mm Hebel® 510kg/m³ PowerPattern® System Assumes Hebel® PowerPattern® thermal resistance is R0.41 m².K/W.						Insulation path Total R, m² K/W		Overall (Pine Framing 12.13% area) Total R, m² K/W		Overall (Steel Framing 5.8% area) Total R, m² K/W	
Stud Frame	Top Hat Cavity	Wall thickness (mm)	Batts	Wall Wrap	Summer	Winter	Summer	Winter	Summer	Winter	
64mm Stud Frame	24mm	173	None	Polyair Performa 4.0 XHD	1.99	2.03	-	-	1.95	1.98	
		173	70mm SoundScreen Tech Wall Batts R2.0	Thermoseal Wall Wrap XP	2.94	3.08	-	-	2.72	2.84	
		173	70mm SoundScreen Tech Wall Batts R2.0	Enviroseal™ Plus	2.60	2.74	-	-	2.35	2.46	
	35mm	184	None	Polyair Performa 4.0 XHD	1.99	2.03	-	-	1.95	1.98	
		184	70mm SoundScreen Tech Wall Batts R2.0	Thermoseal Wall Wrap XP	2.94	3.08	-	-	2.72	2.84	
		184	70mm SoundScreen Tech Wall Batts R2.0	Enviroseal™ Plus	2.60	2.74	-	-	2.35	2.46	
70mm Stud Frame	24mm	179	None	Polyair Performa 4.0 XHD	1.99	2.03	2.00	2.03	-	-	
		179	70mm SoundScreen Tech Wall Batts R2.0	Thermoseal Wall Wrap XP	3.07	3.23	2.84	2.96	-	-	
		179	70mm SoundScreen Tech Wall Batts R2.0	Enviroseal™ Plus	2.74	2.89	2.49	2.60	-	-	
	35mm	190	None	Polyair Performa 4.0 XHD	1.99	2.03	2.00	2.03	-	-	
		190	70mm SoundScreen Tech Wall Batts R2.0	Thermoseal Wall Wrap XP	3.07	3.23	2.84	2.96	-	-	
		190	70mm SoundScreen Tech Wall Batts R2.0	Enviroseal™ Plus	2.74	2.89	2.49	2.60	-	-	
90mm or 92mm Stud Frame	24mm	199	None	Polyair Performa 4.0 XHD	1.99	2.03	2.02	2.05	-	-	
		199	90mm Bradford Gold Wall Comfort Touch™ Technology Wall Batts R2.0	Thermoseal Wall Wrap XP	3.06	3.25	2.88	3.04	2.83	2.99	
		199	90mm Bradford Gold Wall Comfort Touch™ Technology Wall Batts R2.5	Enviroseal™ Plus	3.22	3.41	2.90	3.05	2.83	2.98	
		199	90mm Bradford Gold Wall Comfort Touch™ Technology Wall Batts R2.7	Enviroseal™ Plus	3.42	3.60	3.04	3.18	2.97	3.12	
	35mm	210	None	Polyair Performa 4.0 XHD	1.99	2.03	2.02	2.05	1.95	1.99	
		210	90mm Bradford Gold Wall Comfort Touch™ Technology Wall Batts R2.0	Thermoseal Wall Wrap XP	3.06	3.25	2.88	3.04	2.83	2.99	
		210	90mm Bradford Gold Wall Comfort Touch™ Technology Wall Batts R2.5	Enviroseal™ Plus	3.22	3.41	2.90	3.05	2.83	2.98	
		210	90mm Bradford Gold Wall Comfort Touch™ Technology Wall Batts R2.7	Enviroseal™ Plus	3.42	3.60	3.04	3.18	2.97	3.12	

Notes: All above walls have 10mm Gyprock Plasterboard Plus indoor lining. The above results are for 75mm Hebel PowerPattern (dry density 510kg/m³) with assumed thermal resistance of R0.41 m².K/W. (It is 75mm PowerPanel with 10mm deep routing). For 6mm skim render, Total R-values are R0.04 more than those above.

Source: James M Fricker; Report 107w25011n_w2520; Thermal performance calculations to AS/NZS 4859 Parts 1 & 2:2018; Dated 29/04/2024.

Certificate of Conformity

Energy efficiency

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

Thermal Properties of Hebel® PowerPanel^{XL} and PowerProfile® 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 ^{XL}	90mm stud frame	No batts	Thermoseal wall wrap PRIME	24mm top hat	1.62	1.66	1.65	1.68	1.64	1.68	1.54	1.57
	70mm stud frame				1.62	1.66	1.63	1.66	1.64	1.68	1.53	1.57
	90mm stud frame	90mm Bradford Gold Wall Comfort Touch™ Technology Wall Batts R2.0			2.90	3.10	2.72	2.87	2.76	2.92	2.45	2.59
	70mm stud	75mm R1.5 batt			2.37	2.52	2.25	2.37	2.31	2.44	2.09	2.20

- 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.

Certificate of Conformity

AS Installation requirements

Installation of the Hebel® PowerPanel^{XL}, PowerProfile® and PowerPattern® Houses and Low Rise Multi-Residential External Wall Systems must be in accordance with the following appropriate documentation and the Additional Requirements listed below.

PowerPanel^{XL} System	Hebel® Houses and Low Rise Multi Residential PowerPanel^{XL} External Walls – Design and Installation Guide HELIT016AUG26 , incorporating Hebel® Technical Update (TU-033 Rev 1) dated 06/08/2026
PowerProfile® System	Hebel® Houses and Low Rise Multi Residential PowerProfile® External Walls – Installation Guide HELIT0194AUG26 and Hebel® Houses and Low Rise Multi Residential PowerPanel^{XL} External Walls – Design and Installation Guide HELIT016AUG26 .
PowerPattern® System	Hebel® House and Low Rise Multi Residential PowerPattern® External Walls – Installation Guide HELIT206AUG26 ; and Hebel® Houses and Low Rise Multi Residential PowerPanel^{XL} External Walls – Design and Installation Guide HELIT178AUG26 ; and Hebel® Houses and Low Rise Multi Residential PowerPanel^{XL} External Walls – Design and Installation Guide HELIT016AUG26 .

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® PowerPanel^{XL}, PowerProfile® or PowerPattern® systems 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

Non Combustibility of the Panel

The certificate holder has provided the Certificate of Test for Combustibility for Materials in accordance with AS 1530.1:1994 for 75mm Hebel® PowerPanel^{XL} Panel (Density 400kgm³) and the 75mm Hebel® PowerPattern® Panel (Density 510kgm³). The material is NOT deemed combustible - Limited to the panel only.

Source: CSIRO; NATA Accreditation No. 165; Report No. FNC12490 dated 11/11/2019 and CSIRO; NATA Accreditation No. 165; Report No. F-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 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.

Certificate of Conformity

Acoustic Properties of Hebel® PowerPanel^{XL}/PowerProfile® Systems

Stud Frame	Top Hat Cavity	Hebel® Panel	Plasterboard	Batts	Wall Wrap	RW	Ctr
64mm Steel	24mm	PowerPanel ^{XL}	10mm Light Weight	None	Polyair Performa 4.0 HXD	40	-10
				70mm SoundScreen Tech Wall Batts Rm 2.0	Thermoseal wall wrap XP	43	-11
				Enviroseal™ Plus	43	-11	
	35mm			None	Polyair Performa 4.0 HXD	40	-9
				70mm SoundScreen Tech Wall Batts Rm 2.0	Thermoseal wall wrap XP	44	-11
				Enviroseal™ Plus	44	-11	
92mm Steel	24mm	PowerPanel ^{XL}	10mm Light Weight	None	Polyair Performa 4.0 HXD	40	-9
				90mm Bradford Gold Wall Comfort Touch™ Technology Wall Batts R2.0	Thermoseal wall wrap XP	44	-11
				90mm Bradford Gold Wall Comfort Touch™ Technology Wall Batts R2.5	Enviroseal™ Plus	44	-11
				90mm Bradford Gold Wall Comfort Touch™ Technology Wall Batts R2.7	Enviroseal™ Plus	44	-11
	35mm	PowerPanel ^{XL}	10mm Light Weight	None	Polyair Performa 4.0 HXD	40	-9
				90mm Bradford Gold Wall Comfort Touch™ Technology Wall Batts R2.0	Thermoseal wall wrap XP	44	-11
				90mm Bradford Gold Wall Comfort Touch™ Technology Wall Batts R2.5	Enviroseal™ Plus	44	-11
				90mm Bradford Gold Wall Comfort Touch™ Technology Wall Batts R2.7	Enviroseal™ Plus	44	-11
70mm Timber	24mm	PowerPanel ^{XL}	10mm Light Weight	None	Polyair Performa 4.0 HXD	38	-15
				70mm SoundScreen Tech Wall Batts Rm 2.0	Thermoseal wall wrap XP	40	-15
				Enviroseal™ Plus	40	-15	
	35mm			None	Polyair Performa 4.0 HXD	38	-15
				70mm SoundScreen Tech Wall Batts Rm 2.0	Thermoseal wall wrap XP	41	-15
				Enviroseal™ Plus	41	-15	
90mm Timber	24mm	PowerPanel ^{XL}	10mm Light Weight	None	Polyair Performa 4.0 HXD	38	-15
				90mm Bradford Gold Wall Comfort Touch™ Technology Wall Batts R2.0	Thermoseal wall wrap XP	41	-15
				90mm Bradford Gold Wall Comfort Touch™ Technology Wall Batts R2.5	Enviroseal™ Plus	41	-15
				90mm Bradford Gold Wall Comfort Touch™ Technology Wall Batts R2.7	Enviroseal™ Plus	41	-15
	35mm	PowerPanel ^{XL}	10mm Light Weight	None	Polyair Performa 4.0 HXD	38	-15
				90mm Bradford Gold Wall Comfort Touch™ Technology Wall Batts R2.0	Thermoseal wall wrap XP	42	-15
				90mm Bradford Gold Wall Comfort Touch™ Technology Wall Batts R2.5	Enviroseal™ Plus	42	-15
				90mm Bradford Gold Wall Comfort Touch™ Technology Wall Batts R2.7	Enviroseal™ Plus	42	-15

Source: Acoustic Logic Report No. 20140366.34/1909A/R3/GW dated 02/19/07/2017.

APPENDIX B – EVALUATION STATEMENTS

B1 Evaluation methods

1. Ancillary Provisions A5G3(1)(d). A report issued by an Accredited Testing Laboratory.
2. Condensation Management Provision A5G3(1)(e). Reports from a professional engineer.
3. Fire safety provision A5G3(1)(d) & (e). Reports from Accredited Testing Laboratories and Qualified Professional Engineer.
4. Structural Provision A5G3(1)(e). Reports from Qualified Professional Engineer.
5. Thermal provision A5G3(1)(e). Reports from Qualified Professional Engineer.
6. Water Management and Weatherproofing A5G3(1)(e). Reports from Qualified 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 PS18153; Structural Design Certificate – 75mm Hebel® PowerPanel^{XL} External Wall System; Dated 23/01/2025.
 - b. PACE Structural Pty Ltd; File PS20153; Structural Design Certificate – Hebel® PowerProfile® External Wall System; Dated 22/01/2025.
 - c. PACE Structural Pty Ltd; File PS20177; Structural Design Certificate – Hebel® PowerPattern External Wall System; Dated 22/01/2025.
2. Compliance with F1P1 & H2P2 is based on the following reports:
 - a. Xavier Knight; Report No. 220912 260811 Rev 00; Weatherproofing Assessment Hebel External Wall Systems in low-rise buildings; Dated 11/08/2026
 - 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^{XL} 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-3003 Revision F; Assessment Review Fire resistance of CSR Hebel® 75mm single reinforcement Hebel® PowerPanel external wall system in accordance with AS 1530.4-2014; 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.
 - c. WarringtonFire; NATA Accreditation No. 3277; Report No. 27915 Revision 28.3; Fire assessment report 75mm Hebel® PowerPanel systems to AS1530.4:2014 and AS4072.1:2005; Dated 25/09/2024
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 30/08/2024.
5. Contributing compliance with J4D6 and H6D2(1)(b)(i) is based on the following reports:
 - a. James M Fricker Pty Ltd; Report i107e; Thermal performance calculations to AS/NZS 4859 Parts 1 & 2:2018; Dated 29/04/24.
 - b. James M Fricker Pty Ltd; Report i107f; Thermal performance calculations to AS/NZS 4859 Parts 1 & 2:2018; Dated 29/04/24.
 - c. James M Fricker Pty Ltd; Report Number. i107f; Thermal performance calculations of Hebel® PowerPanel^{XL} 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:

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

hebel
The better way to build
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: CM40049 Rev1

THIS IS TO CERTIFY THAT

Hebel® Houses and Low Rise Multi Residential PowerPanel^{XL} External Walls System
Hebel® Houses and Low Rise Multi Residential PowerProfile® External Walls System
Hebel® Houses and Low Rise Multi Residential PowerPattern® External Walls System

Type and/or use of product:

Wall Cladding System for Houses & Low Rise Multi-Residential External Walls.

Description of product:

Houses and Low Rise Multi-Residential External Wall Systems comprising several proprietary components including 75mm non load bearing steel reinforced Autoclaved Aerated Concrete (AAC) panels. Refer A2 below.

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 the limitations and conditions outlined below.	Structural reliability and resistance – Subject to the limitations and conditions outlined below.
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. Refer Limitation and condition 3.	Fire separation of external walls – Construction of external walls. FRL varies, dependant of the configuration of the wall. Refer Limitation and condition 3.
	Condensation management – Pliable building membrane. Subject to Limitation and condition 11.	Condensation management – Pliable building membrane. Subject to Limitation and condition 11.
	Construction in bushfire prone areas – BAL-FZ subject to <i>Limitation and Condition 12 & 13.</i>	Construction in bushfire prone areas – BAL-FZ subject to <i>Limitation and Condition 12 & 13.</i>
	Energy efficiency – External walls. Can be used in conjunction with other building elements to achieve a Total R Value. Refer to A3	Energy efficiency – External walls. Can be used in conjunction with other building elements to achieve a Total R Value. Refer to A3
State or territory variation(s):	G5D3 NSW	H4D9 (TAS), H7D4 (NSW, QLD & SA)

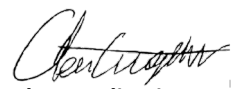
SUBJECT TO THE FOLLOWING LIMITATIONS AND CONDITIONS AND THE PRODUCT TECHNICAL DATA IN APPENDIX A AND EVALUATION STATEMENTS IN APPENDIX B

Limitations and conditions:

1. Installation must be in accordance with appropriate documentation outlined in Section A5 Installation requirements of this Certificate of Conformity and subject to any other Condition & Limitation listed herein.

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: 14/08/2026

Date of expiry: 29/04/2028



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^{XL}, PowerProfile® and PowerPattern® Houses and Low Rise Multi-Residential External Wall Systems 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. The Hebel® PowerPanel^{XL}, PowerProfile® and PowerPattern® Houses and Low Rise Multi-Residential External Wall Systems have not been tested and certified for impact loading from windborne debris in Region C and D as denoted in AS/NZS 1170.2:2021. The building designer should take into consideration internal pressure resulting from dominant openings.
8. Design certification for earthquake loading compliance in accordance with AS 1170.4:2007(Amd 2:2018) excludes Meckering Regions and Island Regions. Components approved under this certificate are not part of the seismic-force- resisting system.
16. Compliance with F3P1 & 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 a risk score of 20 or less, when the sum of all risk factor scores is determined in accordance with Table F3V1a/H2V1a; as appropriate, provided that the buildings parameters result in no item/s on the NCC's verification method risk rating table have a "very-high" risk severity.
 - 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.
9. 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 [Hebel® Houses and Low Rise Multi Residential PowerPanelXL External Walls – Design and Installation Guide HELIT016AUG26](#), incorporating [Hebel® Technical Update \(TU-033 Rev 1\) dated 06/08/2026](#).
10. Where a pliable building membrane is recommended or required it must be installed in accordance with AS 4200.2:2017 and [Hebel® Houses and Low Rise Multi Residential PowerPanelXL External Walls – Design and Installation Guide HELIT016AUG26](#).
11. 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.
12. 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
13. Other than the items and information listed, the remainder of the information contained in the product's literature is outside the Scope of Certification.
14. 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.



Certificate of Conformity

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® PowerPanel^{XL}, PowerProfile® and PowerPattern® Panels

Product	Hebel® PowerPanel ^{XL}	Hebel® PowerProfile®	Hebel® PowerPattern®
Thickness:	75mm	75mm	75mm
Standard Width:	600mm	600mm	600mm
Standard Length:	2400, 2550, 2700, 2800, 2850, 3000, 3300mm.	2400, 2550, 2700, 2800, 2850, 3000, 3300mm.	2400, 2700, 2850, 3000, 3300mm.
Reinforcement:	4 x 4mm longitudinal steel bars	4 x 4mm longitudinal steel bars	4 x 4mm longitudinal steel bars
Nominal Dry Density:	400 kg/m ³	400 kg/m ³	510 kg/m ³

Hebel® PowerPattern® Track routed with "V" groove lines are available in: 100mm, 150mm, 200mm and 300mm spacing. Also available as a plain panel with no groove (bevelled long edges)

Hebel® PowerProfile® consists of a Hebel® PowerPanel^{XL} and aluminium profile elements fixed externally.

Hebel® PowerPanel^{XL}, PowerProfile® and PowerPattern® Houses and Low Rise Multi-Residential External Wall Systems Components

Component	Description												
Universal Backing Clip:	Fixed to the Hebel® PowerProfile® Panel and a powder coated aluminium profile snaps onto the clip												
Top Hat	The Top Hats are used to fix the Hebel® PowerPanel ^{XL} , PowerProfile® and PowerPattern® panels to the structural support framing.												
	There are two nominal widths available: 24mm and 35mm – Incorporating perforated flanges for ease of installation onto external wall frames.												
	<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										
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 Tek screw.												
	Fixing of Hebel® PowerPanel ^{XL} , PowerProfile® or PowerPattern® panels to top hat 14-10x90mm Hex Head Type 17 screw.												
	Fixing of Hebel® PowerPanel ^{XL} , PowerProfile® or PowerPattern® panels to Top Hat from inside of buildings 14-10x65mm Hex Head Type 17 Screw (Boundary walls only).												
Hebel® Mortar	Hebel® Mortar when required is used as a thick bed mortar base to provide a level base for Hebel® PowerPanel ^{XL} , PowerProfile® or PowerPattern® panels 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 ^{XL} , PowerProfile® or PowerPattern® Houses and Low Rise Multi-Residential External Wall Systems panels together at vertical and horizontal joints.												
Hebel® Patch	Minor Chips or damage to Hebel® PowerPanel ^{XL} , PowerProfile® or PowerPattern® panels are to be repaired using Hebel® Patch.												
Hebel® Anti Corrosion Protection Paint	To coat reinforcement steel that has been exposed during cutting of the panels.												
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, Thermoseal Wall Wrap PRIME, Polyair Performa 4.0 XHD.												

Certificate of Conformity

The properties of the Hebel® PowerPanelXL, PowerProfile® and PowerPattern® Houses and Low Rise Multi-Residential External Wall Systems, as described herein, vary with the configuration of the wall structure. It is therefore considered essential that this certificate be read in conjunction with Installation requirements in A5.

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-N5 & C1-C3 as per Table 1.2.1, 1.2.2, 1.2.3, 1.2.4, 1.2.5 and 1.2.6 of [Houses and Low Rise Multi Residential PowerPanelXL External Walls – Design and Installation Guide HELIT016AUG26](#). Installation must be in accordance with the relevant install guide as outlined in **A5 Installation requirements** of this *Certificate of Conformity*.

Source: PACE Structural Pty Ltd, Reports No. PS18153 dated 06/05/2026, PS20153 dated 06/08/2026 and PS20177 dated 10/08/2026.

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 [Hebel® Houses and Low Rise Multi Residential PowerPanelXL External Walls – Design and Installation Guide HELIT016AUG26](#).

Source: Hebel® Houses and Low Rise Multi Residential PowerPanelXL External Walls – Design and Installation Guide HELIT016AUG26

Weatherproofing

[F3P1 & H2P2]

Taking this into account, and based off of the previous testing in report DTF 1021 to FV1 and V2.2.1 (NCC 2015), and assessments listed in section 7 of XK 260811 Rev00 dated 11/08/2026, it is XK's opinion that Performance Requirements F3P1 and H2P2 of NCC 2022 Amdt 2 are considered to be met for the Hebel system tested, and by comparison to the tested systems, the designs reflected in technical manuals:

- Houses and Low Rise Multi Residential PowerPanelXL External Walls Design and Installation Guide HELIT016May2024
- Houses and Low Rise Multi Residential PowerProfile External Walls Installation Guide HELIT0194May2024
- Houses and Low Rise Multi Residential PowerPattern® External Walls Installation Guide HELIT206May2024;

subject to the installation requirement outlined in Section A5 of this Certificate of Conformity and 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 F3V1, H2V1a, as appropriate, provided that the buildings parameters result in no item/s on the NCC's verification method risk rating table have a "very-high" risk severity.
- 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.

Source: Xavier Knight; Weatherproofing Assessment, Report Reference 220912 Weatherproofing assessment Hebel External Wall Systems in low-rise buildings XK 260811 Rev00 dated 11/08/2026.

Certificate of Conformity

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

Fire separation of external walls Hebel® PowerPanel^{XL} & Hebel® PowerProfile® Systems - Depending on the system configuration; Refer [Hebel® Houses and Low Rise Multi Residential PowerPanel^{XL} External Walls – Design and Installation Guide HELIT016AUG26](#) the following FRLs can be achieved.

HELIT016AUG26 Figures	Fire Resistance Level (FRL)
3.6.5.7	180/180/180 *
3.6.7.1	-/120/120
3.6.7.2	-/120/120
3.6.7.5	-/120/120
3.6.7.9	-/120/120
3.6.7.10	-/120/120

*For an FRL of 180/180/180 when using the Hebel® PowerPattern® System, the internal lining must consist of a minimum of 1 x 16 mm Fyrchek plasterboard. If a reduced FRL of 120/120/120 is required to be achieved, standard grade plasterboard may be used as per the tested system.

Variations to linings and framing

Frame	Orientation of panel	Interior Lining	Direction of Fire	FRL
Timber or Steel	Vertical fixed to frame*	Standard grade plasterboard	Outside Only	-/60/60 or 60/60/60
Timber	Vertical fixed to frame*	1 x 16mm Fyrchek	Inside and Outside	-/60/60 or 60/60/60
Steel	Vertical fixed to frame*	1 x 13mm or 1 x 16mm Fyrchek	Inside and Outside	-/60/60 or 60/60/60
Timber or Steel	Vertical fixed to frame*	Standard grade plasterboard	Outside Only	-/90/90 or 90/90/90
Timber or Steel	Vertical fixed to frame*	2 x 13mm or 1 x 16mm Fyrchek	Inside and Outside	-/90/90 or 90/90/90
Timber or Steel	Vertical fixed to frame*	Standard grade plasterboard	Outside Only	-/120/120 or 120/120/120
Timber or Steel	Vertical fixed to frame*	2 x 13mm or 2 x 16mm Fyrchek	Inside and Outside	-/120/120 or 120/120/120

*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 I01R01 dated 18/05/2023, CSIRO Ref No. FCO-3003 Rev F dated 03/12/2024 (**180/180/180 only**) and Warringtonfire Report No. 27915, Revision 28.3 dated 25/09/2024.

Fire resistance Level (FRL 180/180/180) - Compliance with FRL 180/180/180 subject to the following conditions:

- The AAC panel must be as described in A2 of this Certificate of Conformity.
- The wall may vary to include structural steel framing designed in accordance with AS 4600-2018 or NASH Standard part 2, or AS 3623 for ambient temperature and where appropriate, designed to support the weight of the panels.
- The wall may vary to include structural timber framing designed in accordance with AS 1720.1-2010(Amd 3:2015) or AS 1684 part 2, 3 or 4 for ambient temperature and where appropriate, designed to support the weight of the panels.
- Wall framing spacing may be up to 600-mm centres
- The Hebel® AAC shall be vertically orientated and fixed to steel tophats or timber battens as per test evidence within FCO-3003.
- Panels will be fixed through the panel into the battens/tophats.
- The panels shall be supported at the base with either slab, shelf angle, masonry wall or the panel below.
- Where the height per level is 3300mm or less, the panels are fixed to framing by steel tophat sections spaced at maximum 1200mm centres over the panel height, and top and bottom tophat at maximum 150mm from the panel ends.
- The Hebel® AAC panel shall be vertically orientated as per test evidence within FCO-3003, though may vary in length from 2.4m to 3.3m.
- The wall length may increase

Certificate of Conformity

- Panel to batten fixings spacings may decrease not increase
- Batten/tophat spacings may decrease not increase
- The inclusion of an additional panel fixing method (Hebel direct fix clip) as shown in HELIT016AUG26.
- The wall cavity may include sarking between batten and framing.
- The wall cavity may include glasswool, rockwool or any non-combustible insulation.
- The wall linings shall be one of the following;
 - 10mm Gyprock Plasterboard Plus.
 - Any other standard grade, water grade, acoustic grade, fire grade plasterboard manufactured in accordance with AS 2589 and with a density greater than 5.7kg/m2.
 - Fibre cement 6mm or thicker with or without tiles adhered.
- Where more than one level is constructed, a horizontal or vertical joint detail where applicable is to be followed as shown in HELIT016AUG26.
- Where a vertical control joint is required, the inclusion of Selleys FireBlock XT sealant as an alternative to the CSR FireSeal sealant.
- The gap at the base of the panels when used in conjunction with a concrete slab rebate as detailed in HELIT016AUG26 must follow as applicable:
 - Gaps less than 3mm wide - Hebel thick bed mortar
 - Gaps less than 10mm wide - Selleys Fireblock XT or CSR FireSeal for 10mm depth
 - Gaps less than 20mm wide - Selleys Fireblock XT or CSR FireSeal for 16mm depth
- Where Hebel® PowerPanels are supported by a steel shelf angle fixed to the vertical face of the concrete slab as detailed in HELIT016AUG26 must follow as applicable:
 - Selleys Fireblock XT is to be applied to all gaps at the base of the panels and between the steel shelf angle and the vertical face of the concrete slab.
 - The steel shelf angle is required to have a horizontal angle leg length of 75mm (BMT 1.2-mm) with a minimum of 40mm cover to the bottom of the Hebel® PowerPanel. The steel shelf angle is to be kept a minimum of 15mm clear of the timber bottom plate;
 - The steel shelf angle shall be installed in sections up to 3m long and at the ends or any joins in the angle, a 10mm gap filled with Selleys Fireblock XT is required. The angle is fixed to the slab edge at up to 900mm centres with a metal anchor.
- All soffit and eaves linings are to be designed to maintain the FRL of the external wall system.

Source: CSIRO Report No. FCO-3003 Rev F dated 03/12/2024.

Construction in Bushfire Prone Areas

The Bushfire performance of the Hebel® Low Rise Multi-Residential External Wall systems have 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.

[G5D3 & H7D4]

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

Certificate of Conformity

Energy efficiency

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

Thermal Properties of Hebel® PowerPanel^{XL} and PowerProfile® Systems

75mm Hebel® 413kg/m³ PowerPanel ^{XL} Wall Systems Assumes 75mm Hebel® PowerPanel ^{XL} thermal resistance is R0.60 m².K/W for 4.0% moisture content					Insulation path Total R, m² K/W		Overall (Pine Framing 12.13% area) Total R, m² K/W		Overall (Steel Framing 5.8% area) Total R, m² K/W	
Stud Frame	Top Hat Cavity	Wall thickness mm	Batts	Wall Wrap	Summer	Winter	Summer	Winter	Summer	Winter
64mm Stud Frame	24mm	173	None	Polyair Performa 4.0 XHD	2.18	2.22	-	-	2.14	2.17
		173	70mm SoundScreen Tech Wall Batts R2.0	Thermoseal Wall Wrap XP	3.13	3.27	-	-	2.91	3.03
		173	70mm SoundScreen Tech Wall Batts R2.0	Enviroseal™ Plus	2.79	2.93	-	-	2.54	2.65
	35mm	184	None	Polyair Performa 4.0 XHD	2.18	2.22	-	-	2.14	2.17
		184	70mm SoundScreen Tech Wall Batts R2.0	Thermoseal Wall Wrap XP	3.13	3.27	-	-	2.91	3.03
		184	70mm SoundScreen Tech Wall Batts R2.0	Enviroseal™ Plus	2.79	2.93	-	-	2.54	2.65
70mm Stud Frame	24mm	179	None	Polyair Performa 4.0 XHD	2.18	2.22	2.19	2.22	-	-
		179	70mm SoundScreen Tech Wall Batts R2.0	Thermoseal Wall Wrap XP	3.26	3.42	3.03	3.15	-	-
		179	70mm SoundScreen Tech Wall Batts R2.0	Enviroseal™ Plus	2.93	3.08	2.68	2.79	-	-
	35mm	190	None	Polyair Performa 4.0 XHD	2.18	2.22	2.19	2.22	-	-
		190	70mm SoundScreen Tech Wall Batts R2.0	Thermoseal Wall Wrap XP	3.26	3.42	3.03	3.15	-	-
		190	70mm SoundScreen Tech Wall Batts R2.0	Enviroseal™ Plus	2.93	3.08	2.68	2.79	-	-
90mm or 92mm Stud Frame	24mm	199	None	Polyair Performa 4.0 XHD	2.18	2.22	2.21	2.24	2.14	2.18
		199	90mm Bradford Gold Wall Comfort Touch™ Technology Wall Batts R2.0	Thermoseal Wall Wrap XP	3.25	3.44	3.07	3.23	3.02	3.18
		199	90mm Bradford Gold Wall Comfort Touch™ Technology Wall Batts R2.5	Enviroseal™ Plus	3.41	3.60	3.09	3.24	3.02	3.17
		199	90mm Bradford Gold Wall Comfort Touch™ Technology Wall Batts R2.7	Enviroseal™ Plus	3.61	3.79	3.23	3.37	3.16	3.31
		210	None	Polyair Performa 4.0 XHD	2.18	2.22	2.21	2.24	2.14	2.18
		210	90mm Bradford Gold Wall Comfort Touch™ Technology Wall Batts R2.0	Thermoseal Wall Wrap XP	3.25	3.44	3.07	3.23	3.02	3.18
	35mm	210	90mm Bradford Gold Wall Comfort Touch™ Technology Wall Batts R2.5	Enviroseal™ Plus	3.41	3.60	3.09	3.24	3.02	3.17
		210	90mm Bradford Gold Wall Comfort Touch™ Technology Wall Batts R2.7	Enviroseal™ Plus	3.61	3.79	3.23	3.37	3.16	3.31
Notes:	- All above walls have 10mm Gyprock Plasterboard Plus indoor lining. - The above results are for 75mm Hebel® PowerPanel^{XL} (dry density 413kg/m³) external wall system with assumed thermal resistance of R0.60 m².K/W at 4% M.C.. - For 6mm skim render, Total R-values are R0.04 more than those above. Source: James M Fricker; Report 107w25011n_w2520; Thermal performance calculations to AS/NZS 4859 Parts 1 & 2:2018; Dated 29/04/2024.									

Certificate of Conformity

Energy efficiency

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

Thermal Properties of Hebel® PowerPattern® System

75mm Hebel® 510kg/m³ PowerPattern® System Assumes Hebel® PowerPattern® thermal resistance is R0.41 m².K/W.						Insulation path Total R, m² K/W		Overall (Pine Framing 12.13% area) Total R, m² K/W		Overall (Steel Framing 5.8% area) Total R, m² K/W	
Stud Frame	Top Hat Cavity	Wall thickness (mm)	Batts	Wall Wrap	Summer	Winter	Summer	Winter	Summer	Winter	
64mm Stud Frame	24mm	173	None	Polyair Performa 4.0 XHD	1.99	2.03	-	-	1.95	1.98	
		173	70mm SoundScreen Tech Wall Batts R2.0	Thermoseal Wall Wrap XP	2.94	3.08	-	-	2.72	2.84	
		173	70mm SoundScreen Tech Wall Batts R2.0	Enviroseal™ Plus	2.60	2.74	-	-	2.35	2.46	
	35mm	184	None	Polyair Performa 4.0 XHD	1.99	2.03	-	-	1.95	1.98	
		184	70mm SoundScreen Tech Wall Batts R2.0	Thermoseal Wall Wrap XP	2.94	3.08	-	-	2.72	2.84	
		184	70mm SoundScreen Tech Wall Batts R2.0	Enviroseal™ Plus	2.60	2.74	-	-	2.35	2.46	
70mm Stud Frame	24mm	179	None	Polyair Performa 4.0 XHD	1.99	2.03	2.00	2.03	-	-	
		179	70mm SoundScreen Tech Wall Batts R2.0	Thermoseal Wall Wrap XP	3.07	3.23	2.84	2.96	-	-	
		179	70mm SoundScreen Tech Wall Batts R2.0	Enviroseal™ Plus	2.74	2.89	2.49	2.60	-	-	
	35mm	190	None	Polyair Performa 4.0 XHD	1.99	2.03	2.00	2.03	-	-	
		190	70mm SoundScreen Tech Wall Batts R2.0	Thermoseal Wall Wrap XP	3.07	3.23	2.84	2.96	-	-	
		190	70mm SoundScreen Tech Wall Batts R2.0	Enviroseal™ Plus	2.74	2.89	2.49	2.60	-	-	
90mm or 92mm Stud Frame	24mm	199	None	Polyair Performa 4.0 XHD	1.99	2.03	2.02	2.05	1.95	1.99	
		199	90mm Bradford Gold Wall Comfort Touch™ Technology Wall Batts R2.0	Thermoseal Wall Wrap XP	3.06	3.25	2.88	3.04	2.83	2.99	
		199	90mm Bradford Gold Wall Comfort Touch™ Technology Wall Batts R2.5	Enviroseal™ Plus	3.22	3.41	2.90	3.05	2.83	2.98	
		199	90mm Bradford Gold Wall Comfort Touch™ Technology Wall Batts R2.7	Enviroseal™ Plus	3.42	3.60	3.04	3.18	2.97	3.12	
		210	None	Polyair Performa 4.0 XHD	1.99	2.03	2.02	2.05	1.95	1.99	
		210	90mm Bradford Gold Wall Comfort Touch™ Technology Wall Batts R2.0	Thermoseal Wall Wrap XP	3.06	3.25	2.88	3.04	2.83	2.99	
	35mm	210	90mm Bradford Gold Wall Comfort Touch™ Technology Wall Batts R2.5	Enviroseal™ Plus	3.22	3.41	2.90	3.05	2.83	2.98	
		210	90mm Bradford Gold Wall Comfort Touch™ Technology Wall Batts R2.7	Enviroseal™ Plus	3.42	3.60	3.04	3.18	2.97	3.12	

Notes: All above walls have 10mm Gyprock Plasterboard Plus indoor lining. The above results are for 75mm Hebel PowerPattern (dry density 510kg/m³) with assumed thermal resistance of R0.41 m².K/W. (It is 75mm PowerPanel with 10mm deep routing). For 6mm skim render, Total R-values are R0.04 more than those above.

Source: James M Fricker; Report 107w25011n_w2520; Thermal performance calculations to AS/NZS 4859 Parts 1 & 2:2018; Dated 29/04/2024.

Certificate of Conformity

Energy efficiency

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

Thermal Properties of Hebel® PowerPanel^{XL} and PowerProfile® 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 ^{XL}	90mm stud frame	No batts	Thermoseal wall wrap PRIME	24mm top hat	1.62	1.66	1.65	1.68	1.64	1.68	1.54	1.57
	70mm stud frame				1.62	1.66	1.63	1.66	1.64	1.68	1.53	1.57
	90mm stud frame	90mm Bradford Gold Wall Comfort Touch™ Technology Wall Batts R2.0			2.90	3.10	2.72	2.87	2.76	2.92	2.45	2.59
	70mm stud	75mm R1.5 batt			2.37	2.52	2.25	2.37	2.31	2.44	2.09	2.20

- 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.

Certificate of Conformity

AS Installation requirements

Installation of the Hebel® PowerPanel^{XL}, PowerProfile® and PowerPattern® Houses and Low Rise Multi-Residential External Wall Systems must be in accordance with the following appropriate documentation and the Additional Requirements listed below.

PowerPanel^{XL} System	Hebel® Houses and Low Rise Multi Residential PowerPanel^{XL} External Walls – Design and Installation Guide HELIT016AUG26 , incorporating Hebel® Technical Update (TU-033 Rev 1) dated 06/08/2026
PowerProfile® System	Hebel® Houses and Low Rise Multi Residential PowerProfile® External Walls – Installation Guide HELIT0194AUG26 and Hebel® Houses and Low Rise Multi Residential PowerPanel^{XL} External Walls – Design and Installation Guide HELIT016AUG26 .
PowerPattern® System	Hebel® House and Low Rise Multi Residential PowerPattern® External Walls – Installation Guide HELIT206AUG26 ; and Hebel® Houses and Low Rise Multi Residential PowerPanel^{XL} External Walls – Design and Installation Guide HELIT178AUG26 ; and Hebel® Houses and Low Rise Multi Residential PowerPanel^{XL} External Walls – Design and Installation Guide HELIT016AUG26 .

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® PowerPanel^{XL}, PowerProfile® or PowerPattern® systems 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 Wacker SILRES® BS Creme C sealer (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. Wacker SILRES® BS Creme C sealer (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

Non Combustibility of the Panel

The certificate holder has provided the Certificate of Test for Combustibility for Materials in accordance with AS 1530.1:1994 for 75mm Hebel® PowerPanel^{XL} Panel (Density 400kgm³) and the 75mm Hebel® PowerPattern® Panel (Density 510kgm³). The material is NOT deemed combustible - Limited to the panel only.

Source: CSIRO; NATA Accreditation No. 165; Report No. FNC12490 dated 11/11/2019 and CSIRO; NATA Accreditation No. 165; Report No. F-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 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.

Certificate of Conformity

Acoustic Properties of Hebel® PowerPanel^{XL}/PowerProfile® Systems

Stud Frame	Top Hat Cavity	Hebel® Panel	Plasterboard	Batts	Wall Wrap	RW	Ctr
64mm Steel	24mm	PowerPanel ^{XL}	10mm Light Weight	None	Polyair Performa 4.0 HXD	40	-10
				70mm SoundScreen Tech Wall Batts Rm 2.0	Thermoseal wall wrap XP	43	-11
				None	Enviroseal™ Plus	43	-11
	35mm			None	Polyair Performa 4.0 HXD	40	-9
				70mm SoundScreen Tech Wall Batts Rm 2.0	Thermoseal wall wrap XP	44	-11
				None	Enviroseal™ Plus	44	-11
92mm Steel	24mm	PowerPanel ^{XL}	10mm Light Weight	None	Polyair Performa 4.0 HXD	40	-9
				90mm Bradford Gold Wall Comfort Touch™ Technology Wall Batts R2.0	Thermoseal wall wrap XP	44	-11
				90mm Bradford Gold Wall Comfort Touch™ Technology Wall Batts R2.5	Enviroseal™ Plus	44	-11
				90mm Bradford Gold Wall Comfort Touch™ Technology Wall Batts R2.7	Enviroseal™ Plus	44	-11
	35mm	PowerPanel ^{XL}	10mm Light Weight	None	Polyair Performa 4.0 HXD	40	-9
				90mm Bradford Gold Wall Comfort Touch™ Technology Wall Batts R2.0	Thermoseal wall wrap XP	44	-11
				90mm Bradford Gold Wall Comfort Touch™ Technology Wall Batts R2.5	Enviroseal™ Plus	44	-11
				90mm Bradford Gold Wall Comfort Touch™ Technology Wall Batts R2.7	Enviroseal™ Plus	44	-11
				None	Polyair Performa 4.0 HXD	38	-15
70mm Timber	24mm	PowerPanel ^{XL}	10mm Light Weight	70mm SoundScreen Tech Wall Batts Rm 2.0	Thermoseal wall wrap XP	40	-15
				None	Enviroseal™ Plus	40	-15
				None	Polyair Performa 4.0 HXD	38	-15
	35mm			70mm SoundScreen Tech Wall Batts Rm 2.0	Thermoseal wall wrap XP	41	-15
				None	Enviroseal™ Plus	41	-15
				None	Polyair Performa 4.0 HXD	38	-15
90mm Timber	24mm	PowerPanel ^{XL}	10mm Light Weight	90mm Bradford Gold Wall Comfort Touch™ Technology Wall Batts R2.0	Thermoseal wall wrap XP	41	-15
				90mm Bradford Gold Wall Comfort Touch™ Technology Wall Batts R2.5	Enviroseal™ Plus	41	-15
				90mm Bradford Gold Wall Comfort Touch™ Technology Wall Batts R2.7	Enviroseal™ Plus	41	-15
				None	Polyair Performa 4.0 HXD	38	-15
	35mm	PowerPanel ^{XL}	10mm Light Weight	90mm Bradford Gold Wall Comfort Touch™ Technology Wall Batts R2.0	Thermoseal wall wrap XP	42	-15
				90mm Bradford Gold Wall Comfort Touch™ Technology Wall Batts R2.5	Enviroseal™ Plus	42	-15
				90mm Bradford Gold Wall Comfort Touch™ Technology Wall Batts R2.7	Enviroseal™ Plus	42	-15
				None	Polyair Performa 4.0 HXD	38	-15

Source: Acoustic Logic Report No. 20140366.34/1909A/R3/GW dated 02/19/07/2017.

APPENDIX B – EVALUATION STATEMENTS

B1 Evaluation methods

1. Ancillary Provisions A5G3(1)(d). A report issued by an Accredited Testing Laboratory.
2. Condensation Management Provision A5G3(1)(f). Documentary evidence.
3. Fire safety provision A5G3(1)(d) & (e). Reports from Accredited Testing Laboratories and Qualified Professional Engineer.
4. Structural Provision A5G3(1)(e). Reports from Qualified Professional Engineer.
5. Thermal provision A5G3(1)(e). Reports from Qualified Professional Engineer.
6. Weatherproofing A5G3(1)(e). Reports from Qualified 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 PS18153; Structural Design Certificate – 75mm Hebel® PowerPanel^{XL} External Wall System; Dated 23/01/2025.
 - b. PACE Structural Pty Ltd; File PS20153; Structural Design Certificate – Hebel® PowerProfile® External Wall System; Dated 22/01/2025.
 - c. PACE Structural Pty Ltd; File PS20177; Structural Design Certificate – Hebel® PowerPattern External Wall System; Dated 22/01/2025.
2. Compliance with F1P1 & H2P2 is based on the following reports:
 - a. Xavier Knight; Report No. 220912 260811 Rev 00; Weatherproofing Assessment Hebel External Wall Systems in low-rise buildings; Dated 11/08/2026
 - 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. TCC20049-20260807; Clearance between external Hebel® PowerPanel^{XL} 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-3003 Revision F; Assessment Review Fire resistance of CSR Hebel® 75mm single reinforcement Hebel® PowerPanel external wall system in accordance with AS 1530.4-2014; 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.
 - c. WarringtonFire; NATA Accreditation No. 3277; Report No. 27915 Revision 28.3; Fire assessment report 75mm Hebel® PowerPanel systems to AS1530.4:2014 and AS4072.1:2005; Dated 25/09/2024
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 30/08/2024.
5. Contributing compliance with J4D6 and H6D2(1)(b)(i) is based on the following reports:
 - a. James M Fricker Pty Ltd; Report i107e; Thermal performance calculations to AS/NZS 4859 Parts 1 & 2:2018; Dated 29/04/24.
 - b. James M Fricker Pty Ltd; Report i107f; Thermal performance calculations to AS/NZS 4859 Parts 1 & 2:2018; Dated 29/04/24.
 - c. James M Fricker Pty Ltd; Report Number. i107f; Thermal performance calculations of Hebel® PowerPanel^{XL} 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 documents:
 - a. Hebel® Houses and Low Rise Multi Residential PowerPanel^{XL} External Walls – Design and Installation Guide HELIT016AUG26

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