

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

THIS IS TO CERTIFY THAT

Low Rise Multi-Residential Hebel[®] 75mm PowerPanel^{XL} Intertenancy Wall System

Type and/or use of product:

Intertenancy Wall System for load bearing and non-load bearing intertenancy / party walls in low rise multi-residential projects.

Hebel® 75mm PowerPanel^{XL} Low Rise Multi-Residential Inter-tenancy Wall System is a steel reinforced Autoclaved Aerated Concrete (AAC) Panel for use in discontinuous wall structures. Refer A2.

Certificate number: CM40048

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

Description of product:

BCA 2022

<u>www.cmicert.com.au</u> office@cmicert.com.au		Volume One		Volume Two				
	Performance Requirement(s):	B1P1(1),(2)(a), (b),(c) & (d)	Structural reliability	H1P1(1),(2)(a), (b),(c) & (d)	Structural reliability and resis	tance to actions		
Certificate Holder: CSR Hebel [®] ABN: 55 008 631 356		F7P2	Sound transmission through walls - Can be used in conjunction with other building elements to achieve minimum sound insulation ratings.	H4P6	Sound Insulation - (can be use elements to achieve minimun	ed in conjunction with other building n sound insulation ratings)		
Triniti 3, 39 Delhi Rd North Ryde, NSW 2113 Locked Bag 1345,		F7P4	Sound transmission through walls in a residential care building – Can be used in conjunction with other building elements to achieve minimum sound insulation ratings.					
North Ryde BC NSW 1670 Australia	Deemed-to-Satisfy Provision(s):	C2D2(2)	Fire resistance and Stability – Refer A3 for FRL Systems.	H3D2	Non-combustible building ele PowerPanel ^{xL} Panel only.	ments limited to the Hebel®		
P: 1300 712 896 www.hebel.com.au		C2D10	Non-combustible building elements limited to the Hebel [®] PowerPanel ^{XL} Panel only.	H3D4	Fire protection of separating	walls – Refer A3 for FRL Systems.		
	State or territory variation(s):	Part F7 (NT)		H4P6 (NT)				
	SUBJECT TO THE FOLLO	IONS AND CONDITIONS AND THE PRODUCT TECHNICAL DAT	ATA IN APPENDIX A AND EVALUATION STATEMENTS IN APPENDIX B					
	Limitations and conditions:					Building classification/s:		
	1. Compliance with FRL is dependent on the system components being as specified in A3. Any deviation from the tested specimen does not form Class 1,2,3,4,5,6,7,8,9 & 10 part of this certificate of conformity.							
Marine	6.	-	D.P.	Date of i	ssue: 20/07/2023	JAS-ANZ		

Richard Donarski – CMI

Don Grehan – Unrestricted Building Certifier

Date of expiry: 29/04/2025





- 2. The system is suitable for use as a fire separating wall system between fire compartments in sole-occupancy units only and must not be used for the support of fire-rated floors, ceilings or roofs that provide vertical fire separation i.e. Class 2 buildings.
- 3. The timber frames shall be designed in accordance with AS 1720.1:2010 or AS 1684-2010 series, or steel frames in accordance with AS 3623:1993(R2018) or AS/NZS 4600:2018.
- 4. The gap between the framing and the Hebel[®] PowerPanel^{XL} widths may be a minimum of 10mm.
- 5. The panels may only be used in wind category N1, N2 and N3.
- 6. The installation of the Hebel[®] 75mm PowerPanel^{XL} Low Rise Multi-Residential Intertenancy Wall System must not deviate from the contents of the Low Rise Multi Residential 75mm PowerPanel^{XL} Intertenancy Walls Design and Installation Guide HELIT013June23.
- 7. Project specific load bearing capacities for internal load bearing walls must be configured by the project engineer.
- 8. Any cantilevered party wall must be examined by structural engineers engaged by others, not part of this assessment, to ensure that the wall is adequately supported and that there is no additional load that would introduce deflections at various locations that could have a detrimental impact on the structural adequacy of the wall when exposed to fire on either side.
- 9. The use of the certified product/system is subject to these Limitations and Conditions and must be read in conjunction with the Scope of Certification below.

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

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

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

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

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.

CODEMARK

APPENDIX A – PRODUCT TECHNICAL DATA

A1 Type and intended use of product

As per page 1.

A2 Description of product

Hebel® 75mm PowerPanel^{XL} Low Rise Multi-Residential Intertenancy Wall System consists of the following components:

Product				Description		
Hebel® 75mm PowerPanel ^{x∟} panel	The core component of	Hebel [®] 75mm Powerl	Panel ^{XL} Intertenancy Wall Syste	ems is the 75mm thick, steel mesh reinforced Hebel® PowerPanel ^{XL} panel. The panel is		
•	manufactured in a range					
	Length (mm)	Width (mm)	Weight (kg) at 35% M.C.			
	2400	600	58			
	2550	600	62			
	2700	600	66			
	2800	600	68			
	2850	600	69			
	3000	600	73			
	3300	600	80			
	Note: Average panel we	0				
Hebel [®] Deflection Head Track		-	ection of the panels to the con			
Hebel [®] Wall Brackets		ation performance. Th		owerPanel ^{xL} to be fixed to the wall frame. This provides a cavity space, which can result x 1.6mm x 50mm wide aluminium angle. Used in Hebel [®] 75mm PowerPanel ^{XL}		
Hebel [®] Top Hat	The Top Hats are used to fix the Hebel [®] 75mm PowerPanel ^{XL} panel to the structural support framing. There are two nominal widths available: 24mm and 35mm –					
	incorporating perforate	d flanges for ease of ir	nstallation.			
Hebel [®] Adhesive	Hebel [®] Adhesive is used	for bonding the pane	ls together at vertical joints. S	upplied in 20kg bags.		
Hebel [®] l Mortar	Hebel [®] Mortar is used t	o provide a level base	for panel installation as well a	s providing acoustic and fire protection at the base of the panels. Used in some Hebel®		
	75mm PowerPanel ^{XL} Int	ertenancy Discontinuo	ous Wall base arrangements. S	upplied in 20kg bags.		
Hebel [®] Patch	Minor chips or damage	to Hebel® 75mm Pow	erPanel ^{xL} panels are to be repa	ired using Hebel [®] Patch (supplied in 10kg bags).		
Hebel [®] anti-corrosion protection paint	To coat exposed reinforcement during cutting.					
	The Hebel® 75mm PowerPanel ^{XL} Intertenancy Wall System incorporates Bradford Insulation materials.					
	The Hebel® 75mm Powe	in ance intertenancy	Wall System meet porates bra			
Bradford Insulation				corporates Gyprock™ Plasterboard on both sides.		
Bradford Insulation Gyprock™ Plasterboard	The Hebel® 75mm Powe	erPanel ^{xL} Intertenancy	Discontinuous Wall System in			
Bradford Insulation Gyprock™ Plasterboard	The Hebel® 75mm Powe	erPanel ^{xL} Intertenancy RL and / or R _w require	Discontinuous Wall System in ements, all perimeter gaps and	corporates Gyprock™ Plasterboard on both sides.		
Bradford Insulation Gyprock™ Plasterboard Fire & Acoustic Sealant Backing Rod	The Hebel [®] 75mm Powe To attain the specified F acoustic rated sealant ir	erPanel ^{xL} Intertenancy RL and / or R _w require istalled to manufactur	Discontinuous Wall System in ements, all perimeter gaps and er's specifications.	corporates Gyprock [™] Plasterboard on both sides.		

	Certifica	te of Conformi	ty		
DEMARK [®] Australia					
Product specification					
-	certificate holder has provided the ted Concrete (AAC) of density 400		for Materials in accordance wit	h AS 1530.1:1994 for Hebel® 75mm Po	werPanel ^{xL} panel– Autoclaved
The r	material is NOT deemed combusti	ible - Limited to the panel only.			
Sourc	e: CSIRO; NATA Accreditation No. 165;	; Report No. FNC12490 dated 11/11/2019.			
e Protection of Separating W	/alls (Fire Resistant Levels – FRLs)				
epending on the configuration	on, FRL can be achieved as set out	below.			
Description	Central Core	Framing	Lining	Fixings	Outcome
	Lo 75mm CSR Hebel®	adbearing or non- loadbearing timber or steel framing		Aluminium clips	12 m high (max) FRL 90/90/90 or FRL -/90/90
7=4	PowerPanel ^{xL}	oadbearing or non-loadbearing timber framing only	 No lining required 	Steel batten (24 mm Hebel® Top hats) at 1200 mm centres*	16.5 m high (max) FRL 60/60/60 or FRL -/60/60
Used in cantilevered wall sys	tems only. Overall wall height wou	uld be lower than that prescribed in the	e outcome due to the absence	of lower-level floors.	
Internal Linings	 Sound Grade Plaste Moisture Grade Pla Standard Plasterbo 	s are to be installed by traditional glue erboard (10mm & 13mm) asterboard (10mm & 13mm) ard or GIB board minimum 5.7kg/m² (2 poard (10mm & 13mm) n & 9mm)		and must be either;	
Aluminium Clip Connecting Hebel® 75mm PowerPanel ^{XL} Core to Structural frames	The Hebel [®] PowerPanel ^{XL} s ar The aluminium clips are on ea horizontally and located with than 150 mm. The aluminium clips are screw aluminium clips are fixed to t	e secured to the structural frame on b ach side of each panel, top and bottom in the central 300 mm portion of the 6 w fixed to the Hebel® 75mm PowerPar	n, and spaced at maximum 300 500mm wide Hebel® panel. Ie nel ^{x⊥} with two No 12-8 × 60mn 25mm long hot dipped galvan	70 mm × 40 mm × 1.6 mm thick alumi 0 mm centres vertically. Clips must be the distance from the aluminium clip to n long or two No 12 11 × 50 mm long H ised steel nails or 2 × No 12-11 × 25 mm	not more than 600 mm apart o the vertical joints must be not le ex Head Type 17 screws. The



	For Hebel® 75mm PowerPanel ^{XL} intertenancy walls, the aluminium brackets used on either side of the panel do not require to be aligned with each other. In cases where
	the floor joist on one unit is higher than the other unit, the panels are acceptable to be fixed where the brackets on each side of the panel are not aligned. The brackets can
	be fixed to the top and bottom plates of stud frames on each side. The criteria below must be met in the installation of the panels:
	 the bracket to panel joint on each side does not exceed 600 mm. and;
	 the brackets are fixed to studs or nogging on each side of the panel and;
	 the maximum bracket fixing spacing for ground floor panels does not exceed 3000 mm.
Structural Timber Framing	The structural timber framing is to be designed in accordance with AS 1684-2010 and AS 1720.1-2010. Minimum timber size is to be 70x35mm with a 10mm to 35mm
	separation from the Hebel [®] 75mm PowerPanel ^{XL} Panels. A nogging is to be provided at the clip positions to facilitate fixing to the frame if a plate is not present at the
	required position. To aid in construction of the wall system a steel batten may be fixed to one or both of the frames to space the panels from the frame correctly. In no
	cases are the battens to be fixed to the panels
Structural Steel Framing	The structural steel framing can be made from light gauge steel designed in accordance with AS 3623-1993(R2018) or AS 4600:2018. Minimum BMT for light gauge steel
	shall be 0.5mm with a 10mm to 35mm separation from the Hebel® 75mm PowerPanelXL Panels. A nogging is to be provided at the clip positions to facilitate fixing to the
	frame if a plate is not present at the required position. To aid in construction of the wall system a steel batten may be fixed to one or both of the frames to space the panels
	from the frame correctly. In no cases are the battens to be fixed to the panels.
Horizontal Joints in Central	The sealant must be applied to both sides of the wall and achieve a fire resistance level (FRL) of -/90/90 when tested or assessed for protecting a joint in a 75 mm CSR
Hebel [®] 75mm PowerPanel ^{xL}	Hebel® 75mm PowerPanel ^{XL} .
Core	The sealant must be applied to one side of the wall and achieve a fire resistance level (FRL) of -/60/60 when tested or assessed for protecting a joint in a 75 mm CSR Hebel®
	75mm PowerPanel ^{XL} .
	Bradford Fibertex 820 plain strips may be used instead of Fireseal Damper Strip for applications where the latter has been prescribed in this report.
Variation to Gap Between	The proposed range of gap is from 10mm to 20mm. The smallest gap allows a minimum wall footprint, whereas the larger thickness allows variation to meet and intersect
Frame and Panel	other walls and remain at the same thickness.
Vertical Joints in Central	The sealant must be applied to both sides of the wall for -/90/90 applications and must have been tested or assessed for protecting a joint in 75 mm CSR Hebel®
Hebel [®] 75mm PowerPanel ^{XL}	75mm PowerPanel ^{XL} .
Core	The sealant must be applied to one side of the wall for -/60/60 applications and must have been tested or assessed for protecting a joint in 75 mm CSR Hebel®
	75mm PowerPanel ^{XL}

Source: Exova Warringtonfire Australia Pty Ltd; Rep No. 45771 R21.0 dated 23/02/2023.

Sound transmission through walls including in residential care buildings – Acoustic Performance Opinion for Discontinuous Construction

Table 1 – Acoustic Performance Opinion

CSR Hebel [®] 75mm PowerPanel ^{XL} Cavity Insulation	CSR Hebel [®] 75mm PowerPanel ^{XL} Wall Lining Both Sides	Rw/Rw + 70mm 42/34 61/51* 60/50*	R _w /R _w + Ctr Stud Depth		
CSR Rebel® 75mm PowerPaner® Cavity Insulation	CSR Hebel [®] 75mm PowerPanel [™] Wall Lining Both Sides	70mm	90mm		
NIL		42/34	44/35		
90mm Bradford Comfortseal R2.0 – both sides	1 layer of 10mm Gyprock™ plasterboard (STANDARD)	61/51*	63/54*		
Martini Prime MSB3 (70mm) MSB5 (90mm)- both sides – both sides	I layer of tomin Gyprock "plasterboard (STANDARD)	CO/FO*	ca/ra*		
Or Martini Prime 50 (70mm) Martini Prime 75 (90mm)- both sides		00/50*	62/52*		

*Values in table above comply with BCA requirement of $R_W+C_{tr} \ge 50$



Table 2 – Acoustic Performance Opinion

CCD Lishal® 75mm DowerDonalXI Covity Insulation	CCD Ushal® 75mm DowerDonalXI Wall Lining Both Sides	R _w /R _w + Ctr Stud Depth	
CSR Hebel® 75mm PowerPanel ^{xL} Cavity Insulation	CSR Hebel® 75mm PowerPanel ^{xL} Wall Lining Both Sides –	Rw/Rw + Ctr 70mm 43/34 64/52* 63/52* 44/35 67/55* 66/53* 43/34 64/52* 63/50* 44/35 63/50* 44/35 63/50* 66/53*	90mm
NIL		43/34	45/36
90mm Bradford Gold Batt R2.0 – both sides	1 layer of 13mm Gyprock™ plasterboard (standard)	64/52*	67/55*
Martini Prime MSB3 (70mm) MSB5 (90mm)- both sides Or Martini Prime 50 (70mm) Martini Prime 75 (90mm)- both sides		63/52*	66/53*
NIL		44/35	45/36
90mm Bradford Gold Batt R2.0 – both sides		67/55*	70/58*
Martini Prime MSB3 (70mm) MSB5 (90mm)- both sides Or Martini Prime 50 (70mm) Martini Prime 75 (90mm)- both sides	1 layer of 13mm Gyprock™ Soundcheck	66/53*	69/59*
NIL		43/34	45/36
90mm Bradford Gold Batt R2.0 – both sides	1 layer of 10mm Gyprock Aquachek	64/52*	67/55*
Martini Prime MSB3 (70mm) MSB5 (90mm)- both sides Or Martini Prime 50 (70mm) Martini Prime 75 (90mm)- both sides		63/50*	66/53*
NIL		44/35	45/36
90mm Bradford Gold Batt R2.0 – both sides	1 laver of 0mm Comintel Fibre coment chest	67/55*	70/58*
Martini Prime MSB3 (70mm) MSB5 (90mm)- both sides Or Martini Prime 50 (70mm) Martini Prime 75 (90mm)- both sides	1 layer of 9mm Cemintel Fibre cement sheet	66/53*	69/56*

*Values in table above comply with BCA requirement of $R_W+C_{tr} \ge 50$

Source: Acoustic Logic Consultancy Report 2010861.19/0508A/R3/GW dated 05/08/2016.

A4 Manufacturer and manufacturing plant(s)

CSR Hebel 112 Wisemans Ferry Road,

Somersby NSW 2250.

A5 Installation requirements

- 1. Only to be installed in accordance with Low Rise Multi Residential 75mm PowerPanel^{XL} Intertenancy Walls Design and Installation Guide HELIT013June23 section 3.
- 2. The panel wall is constructed using maximum 3300mm x 600mm x 75mm thick Hebel® PowerPanel^{XL} panels with a minimum nominal dry density of 400kg/m³ with a max. span between support anchors 3000mm.
- 3. All relevant detailing on site to be in accordance with Low Rise Multi Residential 75mm PowerPanel^{XL} Intertenancy Walls Design and Installation Guide HELITO13June23.
- 4. Stud wall support frame to be designed and certified by others.
- 5. Only to be installed by a suitably licensed tradesperson or builder approved by Hebel.



A6 Other relevant technical data

No other relevant technical data.

APPENDIX B – EVALUATION STATEMENTS

B1 Evaluation methods

- 1. Acoustic Provisions A5G3(1)(e). A certificate or report from a professional engineer or other appropriately qualified person.
- 2. Fire Safety Provisions A5G3(1)(d). A report issued by an Accredited Testing Laboratory.
- 3. Structural Provisions A5G3(1)(e). A certificate or report from a professional engineer or other appropriately qualified person.

B2 Reports

- 1. Acoustic Logic; Report Number 2010861.19/0508A/R3/GW; Acoustic Performance Opinion for Discontinuous Construction; Dated 05/08/2016. Opinion provides values for determining the sound transmission through walls as per BCA F7P2, F7P4 & H4P6 compliance.
- 2. CSIRO; Nata Accreditation No. 165; Report No. FNC-12490; Combustibility test for materials in accordance with AS 1530.1-1994; Dated 11/11/2019. Certificate confirms the Hebel® 75mm PowerPanel^{XL} is a non-combustible building element as required by C2D10 & H3D2.
- 3. Exova Warringtonfire; NATA Accreditation 3277; Report No: 45771 R21.0; Fire resistance performance of CSR Hebel® 75mm PowerPanel^{XL} party walls incorporating aluminium clips; Dated 23/02/2023. Reports provides FRLs achieved by the systems outlined in the report that confirms compliance with C2D2(2) & H3D4.
- 4. PACE Structural; File No. PS18158; Structural Design Certificate; Dated 07/04/2023. Certificate provides confirmation of compliance of the design capacity calculations Hebel® 75mm PowerPanel^{XL} Intertenancy Walls with BCA requirements of B1P1(1),(2)(a), (b),(c) & (d) & H1P1(1),(2)(a), (b),(c) & (d).

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