

Certificate number: CM40048

Certification Body:


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Certificate Holder:

CSR Hebel®
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THIS TO CERTIFY THAT

Hebel® Low Rise Multi-Residential Inter-tenancy Walls

Type and/or use of product:

Hebel® Low Rise Multi-Residential Inter-tenancy wall is certified as a wall panel element installed vertically between timber or steel stud frames forming an Intertenancy Wall System (for Low Rise Multi-Residential Buildings) that may be used to divide units and townhouses.

Description of product:

Hebel® Low Rise Multi-Residential Inter-tenancy wall is a steel reinforced Autoclaved Aerated Concrete (AAC) Panel for use in both continuous and discontinuous wall structures.
 Dry density: 400Kg/m³
 Sizes: 75mm thick. Up to 3300mm in length and up to 600mm in width. Refer A2.

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

BCA 2019

	Volume One	Volume Two
Performance Requirement(s)	BP1.1(a), Structure (b)(i)(ii)(iii) FP5.2(a) Sound insulation - (Can be used in conjunction with other building elements to achieve a total acoustic value) FP5.5(a) Sound insulation - (Can be used in conjunction with other building elements to achieve a total acoustic value)	P2.1.1(a), Structural stability and resistance to actions (b)(i)(ii)(iii) P2.4.6 Sound insulation - (Can be used in conjunction with other building elements to achieve a total acoustic value)
Deemed-to-Satisfy Provision(s):	C1.1(b) Fire resistance and Stability - As applicable - FRL varies, dependant of the configuration of the wall. Refer condition and limitation 4.	3.7.3.2(a)(i) Fire protection of separating walls – As applicable - FRL varies, dependant of the configuration of the wall. Refer condition and limitation 4.
State or territory variation(s):	FP5.2 & FP5.5 NT part F5	P2.4.6 NT

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

Limitations and conditions:

- In the absence of a site-specific performance solution, this system is not suitable for use in or on Class 2 or 3 buildings where NCC clauses C1.9 and C1.14 requires buildings and/or ancillary elements to be non-combustible.
- 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.
- Project specific load bearing capacities for internal load bearing walls must be configured by the project engineer.

Building classification/s:

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


 John Thorpe - CMI


 Don Grehan – Unrestricted Building Certifier

Date of issue: 01/05/2019

Date of expiry: 01/05/2022



Certificate of Conformity

4. For the purpose of this certificate, discontinuous construction is defined in the BCA as a wall system having a minimum 20 mm cavity between two separate leaves, with—
 - a. for masonry, where wall ties are required to connect leaves, the ties are of the resilient type; and
 - b. for other than masonry, there is no mechanical linkage between leaves except at the periphery.
5. The Acoustic performance is based on professional opinion. Airborne and Impact generated sound testing has not been conducted. The Acoustic performance will vary with installation configurations.
6. All relevant detailing on site to be in accordance with [Low Rise Multi Residential 75mm PowerPanelXL Intertency Walls Design and Installation Guide HELITO13APRIL19](#).
7. 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.

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. This may result in the product being classified as a non-conforming building product.

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, CertMark International 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

Components

Product	Description
Hebel® PowerPanel XL panel	The Hebel® PowerPanel XL panel is a 75mm thick AAC panel with a minimum nominal dry density of 400kg/m ³ and up to 3300mm length, installed vertically to timber or steel framing via horizontal top hats.
Hebel Deflection Head Track	For positioning and restraining the bottom and mid connection of the panels.
Hebel Wall Brackets	The brackets are proprietary components which enable the Hebel® PowerPanelXL panel to be fixed to the wall frame. This provides a cavity space, which can result in increased acoustic insulation performance. The bracket is nominally 75mm x 40mm x 1.6mm x 50mm wide aluminium angle. Used in 75mm Hebel Intertenancy Wall System.
Top Hat	The Top Hats are used to fix the Hebel® PowerPanel XL panel 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.
Hebel® Mortar	Hebel® Mortar (supplied in 20kg bags) when required is used as a thick bed mortar base to provide a level base for Hebel® PowerPanel XL panel installation as well as providing acoustic and fire protection at the base of the panels.
Hebel® Adhesive	Hebel® Adhesive (supplied in 20kg bags) is used for gluing the Hebel® PowerPanel XL panels together at vertical and horizontal joints.
Hebel® Patch	Minor Chips or damage to Hebel® PowerPanel XL panels are to be repaired using Hebel® Patch (supplied in 10kg bags).
Hebel® Anti Corrosion Protection Paint	To coat reinforcement steel that has been exposed during cutting of the panels.

Hebel® PowerPanel XL Panel Physical Properties

Panel reinforcement is a single layer of steel mesh with 4 longitudinal wires of 4mm diameter.

Nominal dry density = 400kg/m³.

Average working density = 540kg/m³ at 35%.

Average service life density = 440kg/m³ at 10% moisture content.

Panel weight (kg)		
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

A3 Product specification

Depending on the system configuration, the Hebel® PowerPanel XL Wall System can achieve an FRL as listed below. Refer Low RiseMulti Residential 75mm PowerPanelXL Intertency Walls Design and Installation Guide HELIT013APRIL19 figures 3.3.4.1 through 3.3.4.7 for control joints details.

The properties of the wall systems relevant to the Hebel® PowerPanel XL Wall System, as described herein, vary with the configuration of the wall structure. It is therefore considered essential that this certificate be read in conjunction with Low RiseMulti Residential 75mm PowerPanelXL Intertency Walls Design and Installation Guide HELIT013APRIL19. This Installation guide provides guidance on:

- Structure
- Designing & detailing considerations
- Systems components
- Durability
- Fire resistance
- Energy efficiency
- Sound transmission and insulation
- Coating requirements
- Weatherproofing
- Installation requirements.

Fire Resistance Levels

HELIT013 APRIL19 Figure	System A FRL	System B FRL
3.3.4.1 Page 17	-/90/-	-/90/90
3.3.4.2 Page 18	-/90/-	-/90/90
3.3.4.3 Page 18	-/60/-	-/60/60
3.3.4.4 Page 18	-/60/-	-/60/60
3.3.4.5 Page 18	-/90/-	-/90/90
3.3.4.6 Page 18	-/60/-	-/60/60
3.3.4.7 Page 18	-/90/-	-/90/90

System A represents the common application in roof space, between floors or below floor level where plasterboard linings are not present.

System B represents the application of the separating wall between habitable areas with plasterboard linings.



Certificate of Conformity

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 PowerPanelXL Intertency Walls Design and Installation Guide HELIT013APRIL19](#) section 3.
2. The Hebel® PowerPanel XL Wall System is only to be installed by a suitably qualified tradesperson or a builder.
3. 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.
4. All relevant detailing on site to be in accordance with Low Rise Multi Residential 75mm PowerPanel XL Intertency Walls Design and Installation Guide HELIT013APRIL19.
5. Stud wall support frame to be designed and certified by others.
6. 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 provision A5.2(1)(e). Reports from Qualified Professional Engineer.
2. Fire safety provision A5.2(1)(d) & (e). Reports from Accredited Testing Laboratories and Qualified Professional Engineer.
3. Structural Provision – A5.2(1)(e). Reports from Qualified Professional Engineer.

B2 Reports

- a. Acoustic Logic; Report Number 2010861.19/0508A/R3/GW; Acoustic Performance Opinion for Discontinuous Construction; Dated 05/08/2016.
- b. Acoustic Logic; Report number 2010861.19/0904A/R2/TN; Acoustic Performance Opinion for Non-discontinuous Construction; Dated 09/04/2013.
- c. Exova Warringtonfire; NATA Accreditation 3277; EWFA Report No: 45771.17.1; Assessment of the likely fire resistance performance in accordance with AS 1530.4- 2014; Dated 18/04/2019.
- d. PACE Structural; File No. PS18158; Structural design capacity calculations; Dated 23/04/2019.

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