

Certificate number: CM40164

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**THIS IS TO CERTIFY THAT**

## Low Rise Multi Residential Hebel PowerPanel<sup>50</sup> Intertenancy Wall System

**Type and/or use of product:**

Hebel PowerPanel<sup>50</sup> Intertenancy Wall System for load bearing and non-load bearing intertenancy / party walls in low rise multi-residential projects.

**Description of product:**

Hebel PowerPanel<sup>50</sup> Intertenancy Wall System consists of Hebel (non-load bearing) PowerPanel<sup>50</sup> AAC panels.

**COMPLIES WITH THE FOLLOWING BCA PROVISIONS AND STATE OR TERRITORY VARIATION(S) BCA 2019 (Amdt. 1)**

	Volume One	Volume Two
<b>Performance Requirement(s):</b>	BP1.1(a), (b)(i),(ii),(iii)&(iv) FP5.2(a) FP5.5(a)	P2.1.1(a), (b)(i),(ii),(iii)&(iv) P2.3.1 P2.4.6(a)
<b>Deemed-to-Satisfy Provision(s):</b>	C1.1(b)	3.7.3.2(a)(i)(A) 3.8.6.2(a)
<b>State or territory variation(s):</b>	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**

**General Limitations and conditions:**

- Compliance with FRL is dependant on the system components being as specified in A3. Any deviation from the tested specimen does not form part of this certificate of conformity.
- Penetrations for service installations must comply with Clause C3.15 in Volume 1 of the BCA for Class 2 to 9 buildings.

**Building classification/s:**

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

  
 Richard Donarski - CMI

  
 Don Grehan – Unrestricted Building Certifier

**Date of issue:** 03/03/2021

**Date of expiry:** 03/03/2024



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3. The systems and all services penetrations and the like are installed with all junctions acoustically sealed so that negligible sound transmission occurs at these points.
4. This system is suitable for use for the horizontal fire separation between fire compartments in sole-occupancy units only and must not be used for the support of fire rated floors, ceilings or roofs. (AAC separating walls).
5. The timber frames shall be designed in accordance with AS 1720.1:2010 or AS 1684 series, or steel frames in accordance with AS3623:1993 or AS/NZS 4600:2018.
6. The gap between the framing and the PowerPanel<sup>50</sup> may be a minimum of 10mm.
7. Stud spacing of 600mm for Hebel 1239 to Hebel 1253 and Hebel 1263 to Hebel 1277 and 450mm for Hebel 1254 to Hebel 1262 and Hebel 1278 to Hebel 1286.
8. Where a minimum field acoustic performance rating is required to be achieved, specific project advice should be sought from a specialist Acoustic Consultant to determine whether the systems and installation methods are applicable and suitable.
9. Services shall not penetrate the Hebel PowerPanel<sup>50</sup> core for System types B and C (refer A3).
10. Typical service penetrations may penetrate the outer linings without special treatments provided the clearance between the edge of the service and opening cut in the lining does not exceed 6mm.
11. Service penetrations that penetrate the PowerPanel<sup>50</sup> core in the roof space (System Type A) shall be protected by systems that can achieve an FRL of -/90/90 when penetrating the wall system (applicable legislation may restrict service penetrations through separating walls, regardless of tested performance).
12. Only to be installed in accordance with the [Low Rise Multi-Residential PowerPanel<sup>50</sup> Intertenancy and Dual Zero Boundary Walls - Design and Installation Guide Version: HELIT152FEB20](#).

## **Additional Limitations and conditions for walls up to 10m in height – FRL 60/60/60:**

13. Only to be installed following completion of site specific design and engineering.
14. The overall wall height limit is 10m.
15. It is the designer's responsibility to determine an appropriate wall framing system to satisfy structural adequacy. It is the designer's responsibility to ensure the connection system has adequate capacity to resist any imposed earthquake loading.
16. Penetrations for service installations must comply with Clause C3.15 in Volume 1 of the BCA for Class 2 to 9 buildings.
17. Penetrations for service installations for Class 1 buildings must be confirmed by a licensed professional Fire Engineer.
18. Structural adequacy of the framing must be confirmed by a licensed professional Structural Engineer.
19. No substitution of the components covered in this Certificate of Conformity is permitted.
20. The panels may only be used in wind category N1, N2 and N3.
21. Design certification for earthquake loading compliance in accordance with AS 1170.4:2007 excludes Meckering Regions and Island Regions as stipulated in Table 3.2.
22. Acoustic performance may vary and is subject to site specific design advice, confirmation of anticipated field performance, detailing and installation inspections for sound insulation. Refer to A3 for technical data regarding  $R_w$  and  $R_w + C_{tr}$  values.
23. Components approved under this certificate are not part of the seismic-force resisting system.

## **Limitations and conditions for a separating wall system with an overhang of up to 1800mm:**

24. Compliance with P2.3.1 is limited to the CSR Hebel PowerPanel<sup>50</sup> party wall system with an overhang of up to 1800mm and limited to Class 1 buildings with one upper storey plus panel within roof space to suit roof pitch (this panel may be up to 1000 mm).
25. Compliance with the Performance Requirements may need to be assessed on a project-by-project basis, to ensure there are no conflicts between applicable Performance Solutions.
26. The overhang would need to 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.
27. This certificate is limited to the details within this certificate including the above compliance elements, product description, purpose or use.
28. Other than the items and information listed, the remainder of the information contained in the product's literature is outside the scope of this certification.
29. 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.



# Certificate of Conformity

**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](http://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. 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

Hebel PowerPanel<sup>50</sup> Intertency Wall System consists of the following components:

Product	Description																		
<b>Hebel PowerPanel<sup>50</sup> panel</b>	The core component of PowerPanel <sup>50</sup> Intertency Wall Systems is the 50mm thick, steel mesh reinforced Hebel PowerPanel <sup>50</sup> panel. The panel is manufactured in a range of stock sizes as detailed below: <table border="1"> <thead> <tr> <th>Length (mm)</th> <th>Width (mm)</th> <th>Weight (kg) at 35% M.C.</th> </tr> </thead> <tbody> <tr> <td>2400</td> <td>600</td> <td>50</td> </tr> <tr> <td>2550</td> <td>600</td> <td>53</td> </tr> <tr> <td>2700</td> <td>600</td> <td>56</td> </tr> <tr> <td>2850</td> <td>600</td> <td>59</td> </tr> <tr> <td>3000</td> <td>600</td> <td>62</td> </tr> </tbody> </table> <p><b>Note:</b> Average panel weight calculated at 35% moisture content.</p>	Length (mm)	Width (mm)	Weight (kg) at 35% M.C.	2400	600	50	2550	600	53	2700	600	56	2850	600	59	3000	600	62
Length (mm)	Width (mm)	Weight (kg) at 35% M.C.																	
2400	600	50																	
2550	600	53																	
2700	600	56																	
2850	600	59																	
3000	600	62																	
<b>Hebel Deflection Head Track</b>	For positioning and restraining the base connection of the panels to the concrete slab. The deflection head track is nominally 51 x 50 x 0.7mm BMT x 3000mm length.																		
<b>Hebel Wall Brackets</b>	The brackets are proprietary components which enable the Hebel PowerPanel <sup>50</sup> to be fixed to the wall frame. This provides a cavity space, which can result in increased acoustic insulation performance. The bracket is nominally 75 x 40 x 1.6mm BMT x 50mm wide aluminium angle. Used in 50mm Hebel Intertency Wall Systems.																		
<b>Hebel Top Hat</b>	Hebel Perforated top hats are used to fix the Hebel PowerPanel <sup>50</sup> panel to the structural support framing for cantilevered intertency wall system. Where the direct fix clip is used, the Hebel Powerpanel <sup>50</sup> panel must be supported at the base.																		
<b>Hebel Adhesive</b>	Hebel Adhesive (supplied in 20kg bags) is used for bonding the panels together at vertical joints.																		
<b>Hebel Mortar</b>	Hebel Mortar (supplied in 20kg bags) is used to provide a level base for panel installation as well as providing acoustic and fire protection at the base of the panels. Used in some PowerPanel <sup>50</sup> Intertency Wall base arrangements.																		
<b>Hebel Patch</b>	Minor chips or damage to PowerPanel <sup>50</sup> panels are to be repaired using Hebel Patch (supplied in 10kg bags).																		
<b>Hebel Anti-Corrosion Protection Paint</b>	To coat exposed reinforcement during cutting.																		
<b>Bradford Insulation</b>	The PowerPanel <sup>50</sup> Intertency Wall System incorporates Bradford Insulation materials.																		
<b>Gyprock™ Plasterboard</b>	The PowerPanel <sup>50</sup> Intertency Wall System incorporates Gyprock™ 10mm Gyprock plus Plasterboard on both sides. Alternative plasterboard manufactured in accordance with AS 2589:2017 and with a minimum thickness of 10mm and a density greater than 5.7kg/m <sup>2</sup> is also acceptable. Additional information is available from CSR Gyprock.																		
<b>Fire &amp; Acoustic Sealant</b>	To attain the specified FRL and / or R <sub>w</sub> requirements, all perimeter gaps and penetrations must be carefully and completely sealed with a polyurethane fire and acoustic rated sealant installed to manufacturer's specifications.																		
<b>Backing Rod</b>	Backing rod is used to enable correct filling of joints with sealant. It is recommended that backing rod be of open cell type to enable sealant to cure from behind. The diameter of backing rod must be appropriate for the width of the gap being filled.																		

## A3 Product specification

### FRL Systems CSIRO Report FCO-3255

The following table is the conclusion of the assessment conducted by CSIRO and must be read in conjunction with the construction details for [Low Rise Multi Residential Hebel PowerPanel<sup>50</sup> Intertenancy Wall System in the document HELIT152FEB20](#).

System	Application of FRL	Maximum Aluminum Clip Spacing Ground Floor/ Other	Maximum Height of Wall	FRL
<b>Single Panel System</b> - with the following 60 minute horizontal joint options from HELIT152FEB20: Option 3 – Figure 1.10.3.3 Option 4 – Figure 1.10.3.4	Between each occupancy	2.95m/3.0m	7.2m	60/60/60
<b>Single Panel System</b> - without the following 60 minute horizontal joint options from HELIT152FEB20: Option 3 – Figure 1.10.3.3 Option 4 – Figure 1.10.3.4	Between each occupancy	2.95m/3.0m	7.2m	90/90/90
<b>Double Panel System</b> - as detailed in Figures 2, 4, 5, 6, 7, 8, 9 of document <a href="#">50mm party wall - additional details for incl. into FCO-3255</a> .	Where a property boundary exists between the panels of the double panel systems, each half of the wall on each side of the boundary will achieve the stated FRL from the direction of the boundary.	2.95m/3.0m	7.2m	90/90/90

### Principle System Components

Component	Detail	Description
AAC Panel	<b>Name</b>	50mm PowerPanel <sup>50</sup>
	<b>Material</b>	CSR Hebel AAC as tested 682kg/m <sup>3</sup> 600mm wide, 50mm thick and 2400mm to 3000mm long. Manufacturer states Dry Density 510kg/m <sup>3</sup>
	<b>Installation</b>	Installed vertically and laterally supported by aluminium clips at the top and bottom that are fixed to the structural frame. Vertical joints clued together with CSR Hebel Adhesive. Panels may be filled at the bottom with Hebel Mortar or with CSR Hebel Adhesive.
Panel Bracket	<b>Name</b>	CSR Hebel Wall Bracket
	<b>Material</b>	75mm x 40mm x 1.6mm aluminium angle 50mm wide.
	<b>Installation</b>	Installed at the top and bottom of each panel within the middle third of the panel width. In habitable are as the clip may be positioned a maximum of 600mm from the horizontal join in the panel. Above the ceiling and below the floor each end of the panels shall be connected with a clip (or track at the base).
Structural Timber Frame	<b>Name</b>	Timber wall and floor framing
	<b>Material</b>	Structural timber designed in accordance with AS 1684 series or AS 1720.1-2010
	<b>Installation</b>	Installed in accordance with above standards or project engineers' specifications.
Structural Steel Frame	<b>Name</b>	Steel wall and floor framing
	<b>Material</b>	Light gauge structural steel frame designed in accordance with "AS/NZS 4600:2018" or "Residential and low-rise steel framing: NASH Standard – Residential and Low-Rise Steel Framing, Part 1 or Part 2"
Wall Linings	<b>Installation</b>	Installed in accordance with above standards or project engineers' specifications.
	<b>Name</b>	Internal Wall Linings
	<b>Material</b>	Material Specification

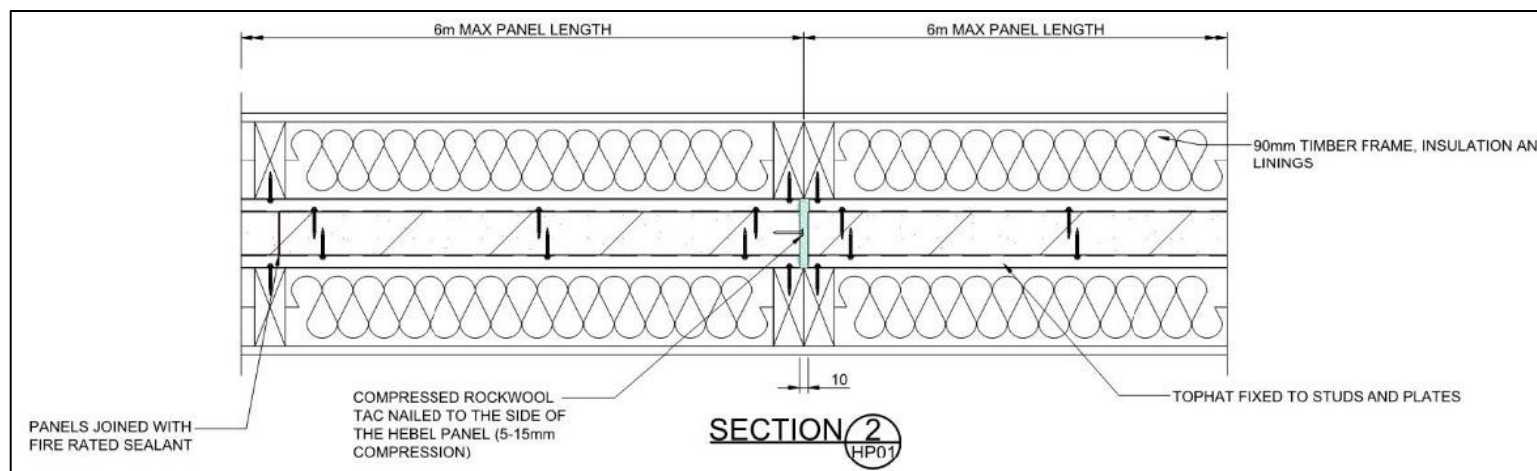
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		Plasterboard	10mm Gyprock plus
		Plasterboard	Any other standard grade, water grade, acoustic grade, fire grade plasterboard manufactured in accordance with AS 2589:2017 and with a density greater than 5.7kg/m <sup>2</sup>
		Fibre Cement	Any 6mm fibre cement manufactured in accordance with AS 2908.2:2000 and greater than 6mm in thickness with or without tiles.
	<b>Installation</b>	Linings may be fixed with "screw and glue" installation methods in accordance with manufacturer's specifications Lining joints shall be taped and set in accordance with manufacturer's specifications.	
<b>Insulation</b>	<b>Name</b>	Wall Insulation	
	<b>Material</b>	Polyester, Glasswool or Rockwool or no insulation may be installed in wall cavities	
	<b>Installation</b>	Installed in accordance with project specifications.	
<b>Horizontal panel Join Filling</b>	<b>Name</b>	Bradford FireSeal™ damper strip	
	<b>Material</b>	Rockwool	
	<b>Installation</b>	Installed between the panels and compressed by the weight of the panel above	
<b>Vertical panel Join Filling</b>	<b>Name</b>	Joint Sealant	
	<b>Material</b>	CSR FireSeal™ sealant over a PE backing rod	
	<b>Installation</b>	CSR FireSeal™ sealant shall be installed in gaps up to 10mm wide and 40mm over PE backing rod. Joint may be installed from either side; Or, CSR FireSeal™ sealant installed 10mm wide and 40mm deep on each side of joint over a PE backing rod.	

*Source: CSIRO; NATA Accreditation No. 165; Assessment Report FCO-3255 Revision D; Dated 17/10/2017.*

## FRL Systems 10m Wall Height Construction – FRL 60/60/60

1. The building must comply with the NCC 2019 Amendment 1, Volume One or Volume Two, as appropriate.
2. CSR HEBEL®50 mm Party Wall must be used as internal wall only.
3. The maximum height of the CSR HEBEL®50 mm Party Wall is not to exceed 10 m and is to be constructed in accordance with the construction methods detailed in [Low Rise Multi Residential PowerPanel<sup>50</sup> Intertency and Zero Boundary Walls Design and Installation Guide Version: HELIT152FEB20](#).
4. The AAC panels are to be fixed to the timber or steel framing using aluminium brackets fixed on both sides of the panels. The maximum distance between the aluminium brackets is not to exceed 2,950 mm as detailed in Figure 1.10.1.1 of HELIT152FEB20.
5. The AAC panels must not bear any structural load other than the weight of other AAC panels stacked above them.
6. CSR HEBEL®50 mm Party Wall shall be used to separate two adjacent fire compartments only. At either side of the wall there shall be only one fire compartment, therefore all intermediate floor shall be non-fire-resisting.
7. CSR HEBEL®50 mm Party Wall shall have vertical joint as detailed in Figures 1.10.3.5 and 1.10.3.6 of HELIT152FEB20.
8. CSR HEBEL®50 mm Party Wall shall have horizontal joint as detailed in Figures 1.10.3.1, 1.10.3.2, 1.10.3.3 and 1.10.3.4 of HELIT152FEB20.
9. CSR HEBEL®50 mm Party Wall shall have base connection as detailed in Figures 1.10.2.1, 1.10.2.2 and 1.10.2.3 of HELIT152FEB20.
10. Where CSR HEBEL® 50 mm Party Wall is used as a corner junction, an entire thickness of 50 mm AAC panels must overlap the AAC panels which meets perpendicularly.
11. Where the AAC panels meet perpendicularly, the panels shall have the following options for vertical joint:
  - Compressed Rockwool tack-nailed to the side of the HEBEL® panel similar to below figure; or
  - 10 mm wide, 10 mm deep CSR Fireseal Sealant with backing rod either side of panel control joint similar to Figures 1.10.3.2 and 1.10.3.6 of HELIT152FEB20.



**Figure 2 - Hebel party wall vertical joint with compressed rockwool**

Source: Stephen Grubits & Associates Pty Ltd; Report No. 2018/162 R1.6; Dated 22/05/2019.



## Fire PowerPanel<sup>50</sup> Intertenancy Wall Overhang Construction

Performance Requirement P2.3.1 is considered to be met by virtue of having fire safety measures in place that would adequately minimise the risk of fire spread.

Those measures include:

- Where the soffit of the upper floor overhang may be exposed to fire from an adjoining building or buildings, it must be lined with a fire and moisture resistant board tested to achieve a resistance to incipient spread of fire (RISF) of at least 60min (refer to Figure 1);
- All joints where the proposed soffit lining abuts an external wall must be protected by an external grade fire-rated sealant which would not compromise the 60 min RISF rating of the proposed soffit lining;
- The overhang comprising CSR Hebel PowerPanel<sup>50</sup> intertenancy system is to be constructed in accordance with the details specified in Figure 2 and Figure 3.
- In addition to the above requirements, where a steel frame is utilised, the proposed steel top hats supporting the CSR Hebel PowerPanel<sup>50</sup> must only be fixed to the steel frame via multiple 35 mm x 70mm timber noggins. A sketch detailing this construction has been developed by CSR HEBEL and is reproduced in Figure 4 for reference.

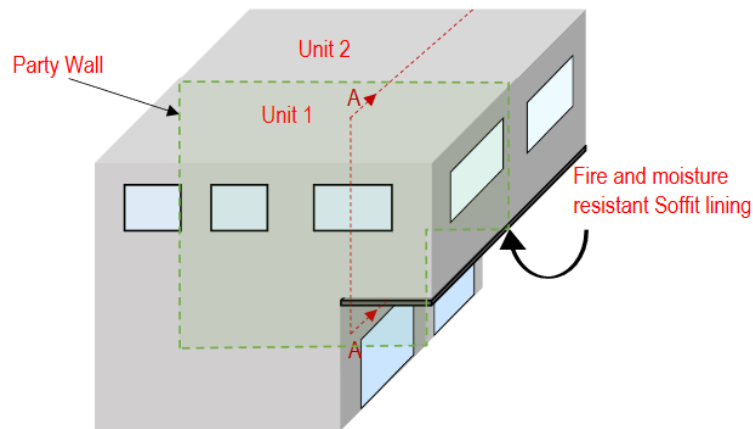


Figure 1—Diagram representing a typical overhang scenario and the proposed fire and moisture resistant soffit lining.

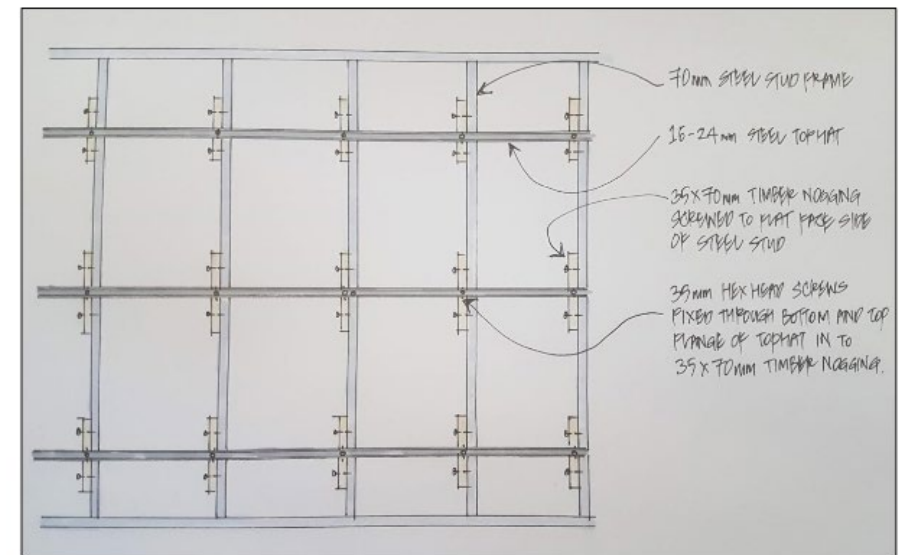


Figure 4—Proposed construction detail for the overhanging Hebel Intertenancy system affixed to a steel frame using timber noggins and top hats

Source: Stephen Grubits & Associates Pty Ltd; Report No. 2013/277.76 R1.3; Dated 06/08/2019.



**Acoustic** Acoustic Logic Consultancy Report 20140366.35/0202A/R6/GW

**Table 1 – Acoustic Performance Opinion**

Wall System Code	Cavity Insulation	Wall Lining Both Sides	R <sub>w</sub> /R <sub>w</sub> + C <sub>tr</sub> Stud Depth	
			70mm	90mm
HEB1900Light	NIL	1 layer of 10mm Gyprock™ plasterboard (light weight 5.7Kg/m <sup>2</sup> )	38/28	39/39
HEB1901Light	90mm Bradford Comfortseal R2.0 – both sides		56/45	58/47
HEB1902Light	Martini Prime ^ MSB3 (70mm) MSB5 (90mm)- both sides – both sides Or Martini Prime 50 (70mm) Martini Prime 75 (90mm)- both sides		55/44	57/46
HEB1900	NIL	1 layer of 10mm Gyprock™ plasterboard (STANDARD)	38/28	639/29
HEB1901	90mm Bradford Comfortseal R2.0 – both sides		58/45	60/47
HEB1902	Martini Prime ^ MSB3 (70mm) MSB5 (90mm)- both sides – both sides Or Martini Prime 50 (70mm) Martini Prime 75 (90mm)- both sides		57/44	59/46

**Table 2 – Acoustic Performance Opinion**

Wall System Code	Cavity Insulation	Wall Lining Both Sides	R <sub>w</sub> /R <sub>w</sub> + C <sub>tr</sub> Stud Depth	
			70mm	90mm
HEB1903 Light weight	NIL	1 layer of 10mm Gyprock™ plasterboard (light weight 5.7Kg/m <sup>2</sup> )	38/28	39/29
HEB1904 Light weight	90mm Bradford Gold Batt R2.0 – both sides		56/45	58/47
HEB1905 Light weight	Martini Prime ^ MSB3 (70mm) MSB5 (90mm)- both sides – both sides Or Martini Prime 50 (70mm) Martini Prime 75 (90mm)- both sides		55/44	57/46
HEB1903	NIL	1 layer of 13mm Gyprock™ plasterboard (standard)	38/29	40/31
HEB1904	90mm Bradford Gold Batt R2.0 – both sides		61/47	64/50
HEB1905	Martini Prime ^ MSB3 (70mm) MSB5 (90mm)- both sides – both sides Or Martini Prime 50 (70mm) Martini Prime 75 (90mm)- both sides		60/46	63/49
HEB1907	NIL	1 layer of 13mm Gyprock™ Soundcheck or 10mm Superchek	39/30	40/31
HEB1907	90mm Bradford Gold Batt R2.0 – both sides		64/50	67/52
HEB1908	Martini Prime ^ MSB3 (70mm) MSB5 (90mm)- both sides – both sides Or Martini Prime 50 (70mm) Martini Prime 75 (90mm)- both sides		63/49	66/51
HEB1909	NIL	1 layer of 10mm Gyprock Aquachek	38/29	40/31
HEB1910	90mm Bradford Gold Batt R2.0 – both sides		61/47	64/50
HEB1911	Martini Prime ^ MSB3 (70mm) MSB5 (90mm)- both sides – both sides Or Martini Prime 50 (70mm) Martini Prime 75 (90mm)- both sides		60/46	63/49
HEB1912	NIL	1 layer of 9mm Cemintel Fibre cement sheet	39/30	40/31
HEB1913	90mm Bradford Gold Batt R2.0 – both sides		64/50	67/52
HEB1914	Martini Prime ^ MSB3 (70mm) MSB5 (90mm)- both sides – both sides Or Martini Prime 50 (70mm) Martini Prime 75 (90mm)- both sides		62/49	66/52

Source: Acoustic Logic Consultancy Report 20140366.35/0202A/R6/GW dated 02/02/2018.

**Acoustic Acoustic Logic Consultancy Report 20171728.10/2610A/R2/GW**

**Table 2 – Predicted Performance (All penetrations shall be acoustically sealed)**

System	Wall Structure	R <sub>w</sub>	R <sub>w</sub> + C <sub>tr</sub>
1	<ul style="list-style-type: none"> <li>• One layer of 13mm Soundchek Plasterboard (13Kg/m<sup>2</sup>)</li> <li>• 70mm Steel Stud Frame</li> <li>• R2.0 90mm Bradford Comfort Seal (inside steel frame line)</li> <li>• 24mm top hat</li> <li>• 50mm thick Hebel Power Panel (510kg/m<sup>3</sup>)</li> <li>• 24mm top hat</li> <li>• R2.0 90mm Bradford Comfort Seal (inside steel frame line)</li> <li>• 70mm Steel Stud Frame</li> <li>• One layer of 13mm Soundchek Plasterboard (13Kg/m<sup>2</sup>)</li> </ul>	61	51
2	<ul style="list-style-type: none"> <li>• One layer of 13mm Soundchek Plasterboard (13Kg/m<sup>2</sup>)</li> <li>• 90mm Steel Stud Frame</li> <li>• R2.0 90mm Bradford Comfort Seal (inside steel frame line)</li> <li>• 24mm top hat</li> <li>• 50mm thick Hebel Power Panel (510kg/m<sup>3</sup>)</li> <li>• 24mm top hat</li> <li>• R2.0 90mm Bradford Comfort Seal (inside steel frame line)</li> <li>• 90mm Steel Stud Frame</li> <li>• One layer of 13mm Soundchek Plasterboard (13Kg/m<sup>2</sup>)</li> </ul>	62	52
3	<ul style="list-style-type: none"> <li>• One layer of 13mm Soundchek Plasterboard (13Kg/m<sup>2</sup>)</li> <li>• 70mm Timber Stud Frame</li> <li>• R2.0 90mm Bradford Comfort Seal (inside steel frame line)</li> <li>• 24mm top hat</li> <li>• 50mm thick Hebel Power Panel (510kg/m<sup>3</sup>)</li> <li>• 24mm top hat</li> <li>• R2.0 90mm Bradford Comfort Seal (inside steel frame line)</li> <li>• 70mm Timber Stud Frame</li> <li>• One layer of 13mm Soundchek Plasterboard (13Kg/m<sup>2</sup>)</li> </ul>	59	50
4	<ul style="list-style-type: none"> <li>• One layer of 13mm Soundchek Plasterboard (13Kg/m<sup>2</sup>)</li> <li>• 90mm Timber Stud Frame</li> <li>• R2.0 90mm Bradford Comfort Seal (inside steel frame line)</li> <li>• 24mm top hat</li> <li>• 50mm thick Hebel Power Panel (510kg/m<sup>3</sup>)</li> <li>• 24mm top hat</li> <li>• R2.0 90mm Bradford Comfort Seal (inside steel frame line)</li> <li>• 90mm Timber Stud Frame</li> <li>• One layer of 13mm Soundchek Plasterboard (13Kg/m<sup>2</sup>)</li> </ul>	60	51

Source: *Acoustic Logic Consultancy Report 20171728.10/2610A/R2/GW dated 26/10/2018.*

**Acoustic** Acoustic Logic Consultancy Report 20171728.13/0507A/R6/GW

**Table 2 – Predicted Performance-70mm Stud**

System	Wall Structure	R <sub>w</sub>	C <sub>tr</sub>	R <sub>w</sub> +C <sub>tr</sub>
1	<ul style="list-style-type: none"> <li>10mm plasterboard (5.7Kg/m<sup>2</sup>)</li> <li>70mm Timber Stud Frame</li> <li>70mm thick 25 kg/m<sup>3</sup> SoundScreen R2.0 Insulation(in stud cavity)</li> <li>20mm cavity</li> <li>50mm thick AAC Panel (510kg/m<sup>3</sup>)</li> <li>20mm cavity</li> <li>70mm thick 25 kg/m<sup>3</sup> SoundScreen R2.0 Insulation(in stud cavity)</li> <li>70mm Timber Stud Frame</li> <li>10mm plasterboard (5.7Kg/m<sup>2</sup>)</li> </ul>	63	-13	50
2	<ul style="list-style-type: none"> <li>10mm plasterboard (5.7Kg/m<sup>2</sup>)</li> <li>70mm SteelStud Frame</li> <li>90mm thick (min. 10.47 kg/m<sup>3</sup>) GlasswoolR2.0 Insulation (in stud cavity)</li> <li>20mm cavity</li> <li>50mm thick AAC Panel (510kg/m<sup>3</sup>)</li> <li>20mm cavity</li> <li>90mm thick (min. 10.47 kg/m<sup>3</sup>) GlasswoolR2.0 Insulation (in stud cavity)</li> <li>70mm SteelStud Frame</li> <li>10mm plasterboard (5.7Kg/m<sup>2</sup>)</li> </ul>	63	-13	50

**Table 3 – Predicted Performance-90mm Stud**

System	Wall Structure	R <sub>w</sub>	C <sub>tr</sub>	R <sub>w</sub> +C <sub>tr</sub>
3	<ul style="list-style-type: none"> <li>•10mm plasterboard (5.7Kg/m<sup>2</sup>)</li> <li>90mm Timber Stud Frame</li> <li>90mm thick (min. 10.47 kg/m<sup>3</sup>) Glasswool R2.0 Insulation (in stud cavity)</li> <li>20mm cavity</li> <li>50mm thick AAC Panel (510kg/m<sup>3</sup>)</li> <li>20mm cavity</li> <li>90mm thick (min. 10.47 kg/m<sup>3</sup>) Glasswool R2.0 Insulation (in stud cavity)</li> <li>90mm Timber Stud Frame</li> <li>10mm plasterboard (5.7Kg/m<sup>2</sup>)</li> </ul>	64	-14	50
4	<ul style="list-style-type: none"> <li>•10mm plasterboard (5.7Kg/m<sup>2</sup>)</li> <li>90mm Steel Stud Frame</li> <li>90mm thick (min. 10.47 kg/m<sup>3</sup>) Glasswool R2.0 Insulation (in stud cavity)</li> <li>20mm cavity</li> <li>50mm thick AAC Panel (510kg/m<sup>3</sup>)</li> <li>20mm cavity</li> <li>90mm thick (min. 10.47 kg/m<sup>3</sup>) Glasswool R2.0 Insulation (in stud cavity)</li> <li>90mm Steel Stud Frame</li> <li>10mm plasterboard (5.7Kg/m<sup>2</sup>)</li> </ul>	64	-13	51
5	<ul style="list-style-type: none"> <li>10mm plasterboard (5.4kg/m<sup>2</sup>)</li> <li>90mm timber stud frame</li> <li>90mm thick (min. 10.47 kg/m<sup>3</sup>) GlasswoolR2.0 Insulation (in stud cavity)</li> <li>20mm cavity,</li> <li>50mm thick Hebel AAC panel (510kg/m<sup>3</sup>)</li> <li>20mm cavity,</li> <li>90mm thick (min. 10.47 kg/m<sup>3</sup>) Glasswool R2.0 Insulation (in stud cavity)</li> <li>90mm timber stud frame</li> <li>10mm plasterboard (5.4kg/m<sup>2</sup>)</li> </ul>	63	-13	50

Source: Acoustic Logic Consultancy Report 20171728.13/0507A/R6/GW dated 01/05/2019.



# Certificate of Conformity

## A4 Manufacturer and manufacturing plant(s)

CSR Hebel  
112 Wisemans Ferry Road,  
Somersby NSW 2250.

## A5 Installation requirements

Only to be installed in accordance with [Low Rise Multi Residential PowerPanel<sup>50</sup> Intertenancy and Zero Boundary Walls Design and Installation Guide Version: HELIT152FEB20](#) Single PowerPanel<sup>50</sup> Intertenancy Wall System. Refer Table 1.3.5 of HELIT152FEB for fixing requirements for PowerPanel<sup>50</sup> Intertenancy Walls. Double PowerPanel<sup>50</sup> Intertenancy Wall System to be constructed in accordance with the applicable details outlined in the document [50mm party wall - additional details for incl. into FCO-3255](#) and Refer Table 1.3.5 of HELIT152FEB for fixing requirements for PowerPanel<sup>50</sup> Intertenancy Walls

## A6 Other relevant technical data

**Non-combustibility** The certificate holder has provided the Certificate of Test for Combustibility for Materials in accordance with AS 1530.1:1994 for Hebel PowerPanel<sup>50</sup> – Autoclaved Aerated Concrete (AAC) Dry Density 510kgm<sup>3</sup>.

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

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

## APPENDIX B – EVALUATION STATEMENTS

### B1 Evaluation methods

1. Fire Safety Provisions A5.2(1)(d). Reports from Accredited Testing Laboratories.
2. Sound Provisions A5.2(1)(e). Reports from a professional engineer.
3. Structural Provisions A5.2(1)(e). Reports from a professional engineer.

### B2 Reports

1. Acoustic Logic Consultancy; Report 20140366.35/0202A/R6/GW; Professional opinion of the acoustic performance; Dated 02/02/2018.
2. Acoustic Logic Consultancy; Report 20140366.35/2710A/R5/GW; Professional opinion of the acoustic performance; Dated 27/10/2017.
3. Acoustic Logic Consultancy; Report 20171728.10/2610A/R2/GW; Professional opinion of the acoustic performance; Dated 26/10/2018.
4. Acoustic Logic Consultancy; Report 20171728.13/0507A/R6/GW; Professional opinion of the acoustic performance; Dated 01/05/2019.
5. Acoustic Logic Consultancy; Report 20171728.13/1012A/R2/GW; Professional opinion of the acoustic performance; Dated 10/12/2018.
6. CSIRO; Nata Accreditation 165; Report No. FCO-3255 Revision D; Fire resistance performance if tested in accordance with AS 1530.4:2014; Dated 17/10/2017.
7. CSIRO; Nata Accreditation 165; Report No. FNC-12427A; Combustibility test for materials in accordance with AS 1530.1-1994; Dated 02/09/2019.
8. PACE Structural; Report PS18022; Structural Design Certificate; Dated 13/05/2020.
9. Stephen Grubits & Associates; Report No. 2018/162 R1.6; Determination of FRL by calculation; Fire-Resistance of HEBEL® 50mm Low Rise Party Wal; Dated 22/05/2019.
10. Stephen Grubits & Associates; Report No. 2013/277.76 R1.3; Fire performance report of HEBEL®PowerPanel<sup>50</sup> Party Wall -Overhang; Dated 06/08/2019.

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