

Certificate number: CM40164

Certification Body:



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

Certificate Holder:

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

THIS IS TO CERTIFY THAT

Low Rise Multi Residential Hebel® PowerPanel⁵⁰ Intertency Wall System

Type and/or use of product:

Hebel® PowerPanel⁵⁰ Intertency Wall System for load bearing and non-load bearing intertenancy / party walls in low rise multi-residential projects.

Description of product:

Hebel® PowerPanel⁵⁰ Intertency Wall System consists of Hebel® PowerPanel⁵⁰ (non-load bearing) AAC panels.

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

BCA 2022

| | 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 resistance to actions |
| | F7P2 | Sound transmission through walls - Can be used in conjunction with other building elements to achieve minimum sound insulation ratings. | H3P1 | Fire protection of separating walls – Limited to construction of an overhang party wall no greater than 1800mm. |
| | 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. | H4P6 | Sound Insulation - (can be used in conjunction with other building elements to achieve minimum sound insulation ratings) |
| Deemed-to-Satisfy Provision(s): | C2D2(2) | Fire resistance and Stability – Refer A3 for FRL Systems. | H3D4 | Fire protection of separating walls – Refer A3 for FRL Systems. |
| | | | H4D8 | Sound insulation requirements - (can be used in conjunction with other building elements to achieve minimum sound insulation ratings) |
| State or territory variation(s): | Part F7 (NT) | | H4P6 (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 dependent 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 C4D15 in Volume 1 of the BCA for Class 2 to 9 buildings.
- 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.

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: 01/03/2024

Date of expiry: 01/03/2027



Certificate of Conformity

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 Hebel® PowerPanel⁵⁰ may be a minimum of 10mm.
7. 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.
8. 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.
9. Only to be installed in accordance with the [Low Rise Multi-Residential PowerPanel50 Intertency and Dual Zero Boundary Walls - Design and Installation Guide Version: HELIT152AUG23](#).

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

10. Only to be installed following completion of site specific design and engineering.
11. The overall wall height limit is 10m.
12. 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.
13. Penetrations for service installations must comply with Clause C4D15 in Volume 1 of the BCA for Class 2 to 9 buildings.
14. Penetrations for service installations for Class 1 buildings must be confirmed by a licensed professional Fire Engineer.
15. Structural adequacy of the framing must be confirmed by a licensed professional Structural Engineer.
16. No substitution of the components covered in this Certificate of Conformity is permitted.
17. The panels may only be used in wind category N1, N2 and N3.
18. 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.
19. 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.
20. 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:

21. Compliance with H3P1 is limited to the CSR Hebel® PowerPanel⁵⁰ 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).
22. 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.
23. 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.
24. This certificate is limited to the details within this certificate including the above compliance elements, product description, purpose or use.
25. 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.
26. 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.



Certificate of Conformity

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

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

This Certificate of Conformity is issued based on the evidence of compliance as detailed herein. Any deviation from the specifications contained in this Certificate of Conformity is outside of this document's scope and the installation of the certified product will not be covered by this Certificate of Conformity.

Disclaimer: The Scheme Owner, Scheme Administrator and Scheme Accreditation Body do not make any representations, warranties or guarantees, and accept no legal liability whatsoever arising from or connected to, the accuracy, reliability, currency or completeness of any material contained within this certificate; and the Scheme Owner, Scheme Administrator and Scheme Accreditation Body disclaim to the extent permitted by law, all liability (including negligence) for claims of losses, expenses, damages and costs arising as a result of the use of the product(s) referred to in this certificate.

When using the CodeMark logo in relation to or on the product/system, the Certificate Holder makes a declaration of compliance with the Scope of Certification and confirms that the product is identical to the product certified herein. In issuing this Certificate of Conformity, CMI Certification Pty Ltd (CMI) has relied on the experience and expertise of external bodies (laboratories and technical experts).

Nothing in this document should be construed as a warranty or guarantee by CMI, and the only applicable warranties will be those provided by the Certificate Holder.

APPENDIX A – PRODUCT TECHNICAL DATA

A1 Type and intended use of product

As per page 1.

A2 Description of product

Hebel® PowerPanel⁵⁰ Intertenancy Wall System consists of the following components:

| Product | Description | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|-------------|----------------|------------|----------------|-------|------|-----|----|--------|------|-----|----|--------|------|-----|----|--------|------|-----|----|--------|------|-----|----|--------|------|-----|----|--------|------|-----|----|--------|------|-----|----|--------|------|-----|----|
| Hebel PowerPanel⁵⁰ panel | The core component of Hebel® PowerPanel ⁵⁰ Intertenancy Wall Systems is the 50mm thick, steel mesh reinforced Hebel® PowerPanel ⁵⁰ . The panel is manufactured in a range of stock sizes as detailed below: <table border="1" data-bbox="539 564 1375 874"> <thead> <tr> <th>Product no.</th> <th>Length (mm)</th> <th>Width (mm)</th> <th>Thickness (mm)</th> </tr> </thead> <tbody> <tr><td>99939</td><td>2400</td><td>600</td><td>50</td></tr> <tr><td>133805</td><td>2550</td><td>600</td><td>50</td></tr> <tr><td>162758</td><td>2700</td><td>600</td><td>50</td></tr> <tr><td>162757</td><td>2800</td><td>600</td><td>50</td></tr> <tr><td>162756</td><td>2850</td><td>600</td><td>50</td></tr> <tr><td>162760</td><td>3000</td><td>600</td><td>50</td></tr> <tr><td>482684</td><td>2700</td><td>600</td><td>50</td></tr> <tr><td>482732</td><td>2850</td><td>600</td><td>50</td></tr> <tr><td>482683</td><td>3000</td><td>600</td><td>50</td></tr> </tbody> </table> | Product no. | Length (mm) | Width (mm) | Thickness (mm) | 99939 | 2400 | 600 | 50 | 133805 | 2550 | 600 | 50 | 162758 | 2700 | 600 | 50 | 162757 | 2800 | 600 | 50 | 162756 | 2850 | 600 | 50 | 162760 | 3000 | 600 | 50 | 482684 | 2700 | 600 | 50 | 482732 | 2850 | 600 | 50 | 482683 | 3000 | 600 | 50 |
| Product no. | Length (mm) | Width (mm) | Thickness (mm) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 99939 | 2400 | 600 | 50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 133805 | 2550 | 600 | 50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 162758 | 2700 | 600 | 50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 162757 | 2800 | 600 | 50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 162756 | 2850 | 600 | 50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 162760 | 3000 | 600 | 50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 482684 | 2700 | 600 | 50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 482732 | 2850 | 600 | 50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 482683 | 3000 | 600 | 50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hebel® Deflection Head Track | 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. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hebel® Wall Brackets | The brackets are proprietary components which enable the Hebel® PowerPanel ⁵⁰ 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 Intertenancy Wall Systems. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hebel® Top Hat | Hebel® 50mm Perforated Top Hats are used to fix Hebel® PowerPanel ⁵⁰ panel to top and bottom steel frame utilising aluminium wall brackets. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hebel® Adhesive | Hebel® Adhesive (supplied in 20kg bags) is used for bonding the panels together at vertical joints. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hebel® Mortar | 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 Hebel® PowerPanel ⁵⁰ Intertenancy Wall base arrangements. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hebel® Patch | Minor chips or damage to Hebel® PowerPanel ⁵⁰ panels are to be repaired using Hebel® Patch (supplied in 10kg bags). | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hebel® Anti-Corrosion Protection Paint | To coat exposed reinforcement during cutting. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bradford Insulation | The Hebel® PowerPanel ⁵⁰ Intertenancy Wall System incorporates Bradford Insulation materials. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Gyprock™ Plasterboard | Manufactured in accordance with AS 2589:2017 and with a minimum thickness of 10mm and a density greater than 5.7kg/m ² is also acceptable. Additional information is available from CSR Gyprock. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fire & Acoustic Sealant | To attain the specified FRL and / or R _w 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. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Backing Rod | 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 PowerPanel50 Intertency and Dual Zero Boundary Walls - Design and Installation Guide Version: HELIT152AUG23](#).

| System | Application of FRL | Maximum Aluminum Clip Spacing Ground Floor/ Other | Maximum Height of Wall | FRL |
|--|---|--|---------------------------|----------|
| Single Panel System - with the following 60 minutes horizontal joint options from HELIT152AUG23: Option 3 – Figure 1.10.3.3 Option 4 – Figure 1.10.3.4 Single Panel System - with the following 60 minutes vertical joint options from HELIT152AUG23: Option 1 – Figure 1.10.3.5 Option 3 – Figure 1.10.3.7 | Between each occupancy | 2.95m/3.0m | 7.2m | 60/60/60 |
| Single Panel System - without the following 90 minutes horizontal joint options from HELIT152AUG23: Option 1 – Figure 1.10.3.1 Option 2 – Figure 1.10.3.2 Single Panel System - without the following 90 minutes vertical joint options from HELIT152AUG23: Option 2 – Figure 1.10.3.6 | Between each occupancy | 2.95m/3.0m | 7.2m | 90/90/90 |
| Double Panel System - as detailed in Figures 21 to 30 of Report FCO-3255 Rev G. | 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 | Name | Hebel® PowerPanel ⁵⁰ |
| | Material | CSR Hebel® AAC as tested 682kg/m ³ 600mm wide, 50mm thick and 2400mm to 3000mm long. Manufacturer states Dry Density 510kg/m ³ |
| | Installation | Installed vertically and laterally supported by aluminium clips at the top and bottom that are fixed to the structural frame. Vertical joints glued together with CSR Hebel® Adhesive. Panels may be filled at the bottom with Hebel® Mortar or with CSR Hebel® Adhesive. |
| Panel Bracket | Name | CSR Hebel® Wall Bracket |
| | Material | 75mm x 40mm x 1.6mm aluminium angle 50mm wide. |
| | Installation | Installed at the top and bottom of each panel within the middle third of the panel width. In habitable areas 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 | Name | Timber wall and floor framing |
| | Material | Structural timber designed in accordance with AS 1684 series or AS 1720.1-2010 |
| | Installation | Installed in accordance with above standards or project engineers' specifications. |
| Structural Steel Frame | Name | Steel wall and floor framing |
| | Material | 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" |
| | Installation | Installed in accordance with above standards or project engineers' specifications. |
| Wall Linings | Name | Internal Wall Linings |
| | Material | Plasterboard: 10mm Gyprock plus, Or, 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 ² , Or, Fibre Cement: Any 6mm fibre cement manufactured in accordance with AS 2908.2:2000 and greater than 6mm in thickness with or without tiles. |
| | Installation | 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. |
| Insulation | Name | Wall Insulation |
| | Material | Polyester, Glasswool or Rockwool or no insulation may be installed in wall cavities |
| | Installation | Installed in accordance with project specifications. |
| Horizontal panel Join Filling | Name | Bradford FireSeal™ damper strip |
| | Material | Rockwool |
| | Installation | Installed between the panels and compressed by the weight of the panel above |
| Vertical panel Join Filling | Name | Joint Sealant |
| | Material | CSR FireSeal™ sealant over a PE backing rod |
| | Installation | 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 G; Dated 01/09/2021.

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

1. The building must comply with the BCA 2022 Volume One or Volume Two, as appropriate.
2. CSR Hebel® PowerPanel⁵⁰ must be used as internal wall only.
3. The maximum height of the CSR Hebel® PowerPanel⁵⁰ is not to exceed 10 m and is to be constructed in accordance with the construction methods detailed in Low Rise Multi-Residential Hebel® PowerPanel⁵⁰ Intertency and Dual Zero Boundary Walls - Design and Installation Guide Version: HELIT152AUG23.
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 2950mm for ground floor and 3000mm for top floor as detailed in Figure 1.10.1.1 of HELIT152AUG23.
5. The AAC panels must not bear any structural load other than the weight of other AAC panels stacked above them.
6. CSR Hebel® PowerPanel⁵⁰ 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® PowerPanel⁵⁰ shall have vertical joint as detailed in Figures 1.10.3.5, 1.10.3.6 and 1.10.3.7 of HELIT152AUG23.
8. CSR Hebel® PowerPanel⁵⁰ 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 HELIT152AUG23.

9. CSR Hebel® PowerPanel⁵⁰ shall have base connection as detailed in Figures 1.10.2.1, 1.10.2.2 and 1.10.2.3 of HELIT152AUG23.
10. Where CSR Hebel® PowerPanel⁵⁰ 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® PowerPanel⁵⁰ 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 1.10.3.6 of HELIT152AUG23.

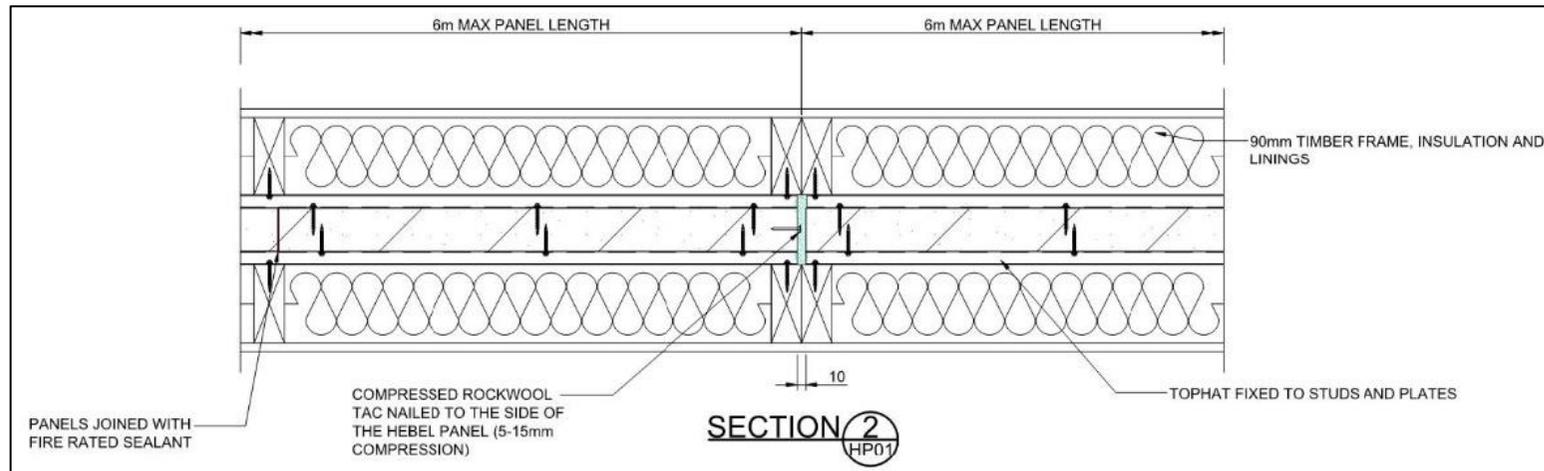


Figure 2 - Hebel party wall vertical joint with compressed rockwool

Source: SGA Fire; Report No. 115620-FAR2-r2; Dated 01/03/2023.

Fire

Hebel® PowerPanel⁵⁰ Intertency Wall Overhang Construction

Performance Requirement H3P1 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® PowerPanel⁵⁰ 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® PowerPanel⁵⁰ 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.

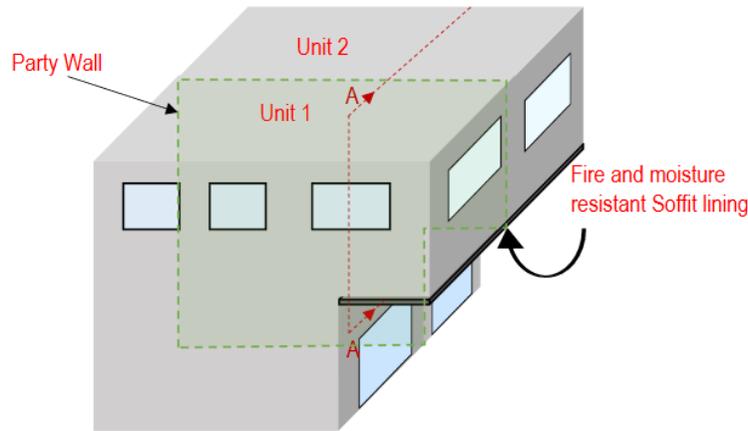


Figure 1–Diagram representing a typical overhang scenario and the proposed fire and moisture resistant soffit lining.

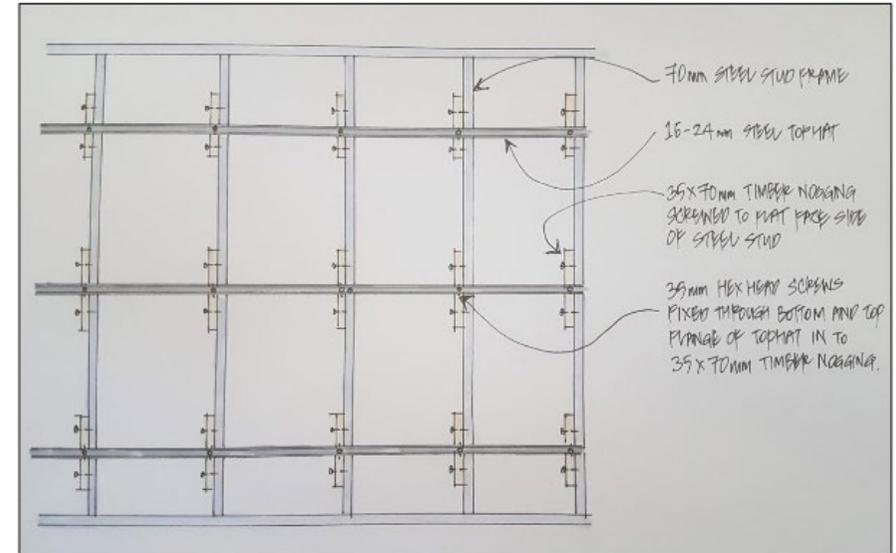


Figure 4–Proposed construction detail for the overhanging Hebel Intertency system affixed to a steel frame using timber nogginns and top hats

Source: SGA Fire; Report No. 115620-FAR6-r1; Dated 19/10/2022.

Acoustic Acoustic Logic Consultancy Report 20210103.13/1105A/R0/TB

Table 1 – Acoustic Performance Opinion

| Cavity Insulation | Wall Lining Both Sides | Rw/Rw + Ctr Stud Depth | |
|--|--|------------------------|-------|
| | | 70mm | 90mm |
| NIL | 1 layer of 10mm Gyprock™ plasterboard (light weight 5.7Kg/m ²) | 38/28 | 39/29 |
| 90mm Bradford Gold Batt R2.0 – both sides | | 56/45 | 58/47 |
| Martini Prime ^ MSB3 (70mm) MSB5 (90mm)- both sides Or Martini Prime 50 (70mm) Martini Prime 75 (90mm)- both sides | | 55/44 | 57/46 |
| NIL | 1 layer of 10mm Gyprock™ plasterboard (STANDARD) | 38/28 | 39/29 |
| 90mm Bradford Gold Batt R2.0 – both sides | | 58/45 | 60/47 |
| 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

| Cavity Insulation | Wall Lining Both Sides | R _w /R _w + C _{tr} | |
|--|--|--|-----------------|
| | | 70mm Stud Depth | 90mm Stud Depth |
| NIL | | 38/29 | 40/31 |
| 90mm Bradford Gold Batt R2.0 – both sides | 1 layer of 13mm Gyprock™ plasterboard (light weight 7.5Kg/m ²) | 59/47 | 62/50 |
| Martini Prime ^ MSB3 (70mm) MSB5 (90mm)- both sides Or Martini Prime 50 (70mm) Martini Prime 75 (90mm)- both sides | | 58/46 | 61/49 |
| NIL | | 38/29 | 40/31 |
| 90mm Bradford Gold Batt R2.0 – both sides | 1 layer of 13mm Gyprock™ plasterboard (standard) | 61/47 | 64/50 |
| 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 |
| NIL | | 39/30 | 40/31 |
| 90mm Bradford Gold Batt R2.0 – both sides | 1 layer of 13mm Gyprock™ Soundcheck or 10mm Superchek | 64/50 | 67/52 |
| 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 |
| NIL | | 38/29 | 40/31 |
| 90mm Bradford Gold Batt R2.0 – both sides | 1 layer of 10mm Gyprock™ Aquachek | 61/47 | 64/50 |
| 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 |
| NIL | | 39/30 | 40/31 |
| 90mm Bradford Gold Batt R2.0 – both sides | 1 layer of 9mm Cemintel Fibre cement sheet | 64/50 | 67/52 |
| 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 20210103.13/1105A/R0/TB dated 11/05/2023.

Note: Bold blue values in table above comply with BCA requirement of R_w+C_{tr} ≥ 50

Acoustic Acoustic Logic Consultancy Report 20210103.13/1105B/R0/TB

Table 2 – Predicted Performance-70mm Stud

| System | Wall Structure | R _w | C _{tr} | R _w +C _{tr} |
|--------|--|----------------|-----------------|---------------------------------|
| 1 | <ul style="list-style-type: none"> 10mm plasterboard (5.7Kg/m²) 70mm Timber Stud Frame 70mm thick 25 kg/m³ SoundScreen R2.0 Insulation (in stud cavity) 20mm cavity Hebel® PowerPanel⁵⁰ (510kg/m³) 20mm cavity 70mm thick 25 kg/m³ SoundScreen R2.0 Insulation (in stud cavity) 70mm Timber Stud Frame 10mm plasterboard (5.7Kg/m²) | 63 | -13 | 50 |
| 2 | <ul style="list-style-type: none"> 10mm plasterboard (5.7Kg/m²) 64mm Steel Stud Frame 90mm thick (min. 10.47 kg/m³) GlasswoolR2.0 Insulation (in stud cavity) 20mm cavity Hebel® PowerPanel⁵⁰ (510kg/m³) 20mm cavity 90mm thick (min. 10.47 kg/m³) GlasswoolR2.0 Insulation (in stud cavity) 64mm Steel Stud Frame 10mm plasterboard (5.7Kg/m²) | 63 | -13 | 50 |

Table 3 – Predicted Performance-90mm Stud

| System | Wall Structure | R _w | C _{tr} | R _w +C _{tr} |
|--------|--|----------------|-----------------|---------------------------------|
| 3 | <ul style="list-style-type: none"> 10mm plasterboard (5.7Kg/m²) 90mm Timber Stud Frame 90mm thick (min. 10.47 kg/m³) Glasswool R2.0 Insulation (in stud cavity) 20mm cavity Hebel® PowerPanel⁵⁰ (510kg/m³) 20mm cavity 90mm thick (min. 10.47 kg/m³) Glasswool R2.0 Insulation (in stud cavity) 90mm Timber Stud Frame 10mm plasterboard (5.7Kg/m²) | 64 | -14 | 50 |
| 4 | <ul style="list-style-type: none"> 10mm plasterboard (5.7Kg/m²) 92mm Steel Stud Frame 90mm thick (min. 10.47 kg/m³) Glasswool R2.0 Insulation (in stud cavity) 20mm cavity Hebel® PowerPanel⁵⁰ (510kg/m³) 20mm cavity 90mm thick (min. 10.47 kg/m³) Glasswool R2.0 Insulation (in stud cavity) 92mm Steel Stud Frame 10mm plasterboard (5.7Kg/m²) | 64 | -13 | 51 |
| 5 | <ul style="list-style-type: none"> 10mm plasterboard (5.4kg/m²) 90mm timber stud frame 90mm thick (min. 10.47 kg/m³) Glasswool R2.0 Insulation (in stud cavity) 20mm cavity, Hebel® PowerPanel⁵⁰ (510kg/m³) 20mm cavity, 90mm thick (min. 10.47 kg/m³) Glasswool R2.0 Insulation (in stud cavity) 90mm timber stud frame 10mm plasterboard (5.4kg/m²) | 63 | -13 | 50 |

Source: Acoustic Logic Consultancy Report 20210103.13/1105B/R0/TB dated 1/05/2023.



Certificate of Conformity

A4 Manufacturer and manufacturing plant(s)

This field is optional. Contact Certificate Holder for details.

A5 Installation requirements

Only to be installed in accordance with [Low Rise Multi-Residential PowerPanel50 Intertenancy and Dual Zero Boundary Walls - Design and Installation Guide Version: HELIT152AUG23](#) Single Hebel® PowerPanel⁵⁰ Intertenancy Wall System. Refer Table 1.2.1 of HELIT152AUG23 for fixing requirements for Hebel® PowerPanel⁵⁰ Intertenancy Walls. Double Hebel® PowerPanel⁵⁰ Intertenancy Wall System to be constructed in accordance with the applicable details outlined in the CSIRO Report FCO-3255 Rev G dated 01/09/2021 and Refer Table 1.2.1 of HELIT152AUG23 for fixing requirements for Hebel® PowerPanel⁵⁰ 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® PowerPanel⁵⁰ – Autoclaved Aerated Concrete (AAC) Dry Density 510kgm³.

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. 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 Consultancy; Report 20210103.13/1105A/R0/TB; Professional opinion of the acoustic performance; Dated 11/05/2023, This report contributes towards compliance with F7P2 & H4P6.
2. Acoustic Logic Consultancy; Report 20210103.13/1105B/R0/TB; Professional opinion of the acoustic performance; Dated 11/05/2023, This report contributes towards compliance with F7P2 & H4P6.
3. CSIRO; Nata Accreditation 165; Report No. FCO-3255 Revision G; Fire resistance performance if tested in accordance with AS 1530.4:2014; Dated 01/09/2021, This report contributes towards compliance with C2D10(2) & H3D4.
4. CSIRO; Nata Accreditation 165; Report No. FNC-12427A; Combustibility test for materials in accordance with AS 1530.1-1994; Dated 02/09/2019, This report confirms the Hebel AAC is not deemed combustible in accordance with AS 1530.1.
5. PACE Structural; Report PS18022; Structural Design Certificate; Dated 16/08/2023, These calculations contribute to the structural compliance with B1P1 & H1P1.
6. PACE Structural; Structural Design Certificate; Dated 15/08/2023, These calculations contribute to the structural compliance with B1P1 & H1P1.
7. SGA Fire – A Jensen Hughes Company; Report No. 115620-FAR2-r2; Determination of FRL by calculation; Fire-Resistance of HEBEL® 50mm Low Rise Party Wall; Dated 01/03/2023, This report contributes towards compliance with C2D10(2) & H3D4.
8. SGA Fire – A Jensen Hughes Company; Report No. 115620-FAR6-r1; Fire performance report of HEBEL®PowerPanel⁵⁰ Party Wall -Overhang; Dated 19/10/2022, This report contributes towards compliance with C2D10(2) & H3D4.
9. Warringtonfire Australia Pty Ltd; Report No. 45771 R21.0; Fire resistance performance of CSR Hebel party walls incorporating aluminium clips; Dated 23/02/2023, This report contributes towards compliance with C2D10(2) & H3D4.

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