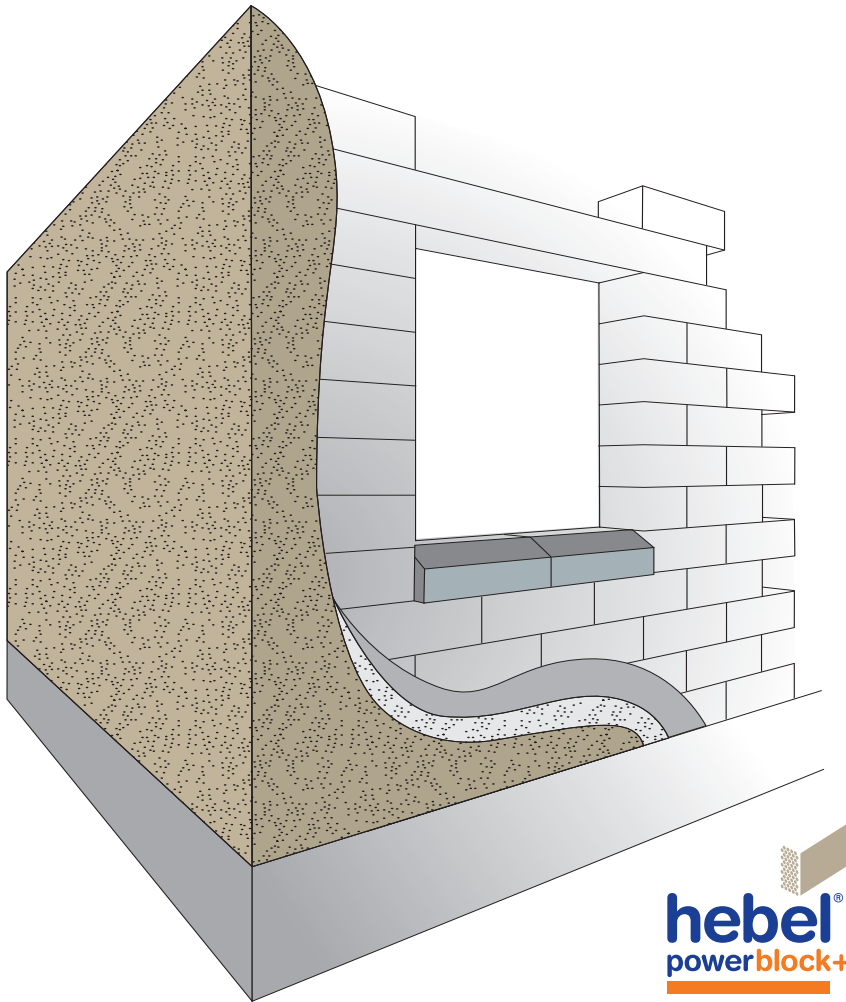


Building load bearing walls with Hebel PowerBlock+



PowerBlock+ delivers load-bearing solid masonry qualities comparable to double brick

Solid masonry construction has long been regarded as the 'ultimate' home building method. Hebel PowerBlock+ is made from Autoclaved Aerated Concrete (AAC), is the ideal alternative to double brick, giving you an extremely solid construction with exceptional acoustic and thermal insulation properties to provide a more comfortable and energy efficient home.

The face size of a PowerBlock+ is 600mm x 200mm. External walls are typically constructed using 250mm thick Hebel PowerBlock+ whilst internal non-loadbearing block walls generally use the 100mm PowerBlock+. The large format blocks are lightweight and, forming a single wall, are rapidly installed.

Block Walls

Fire	up to 240/240/240
Acoustic	$R_w + C_{tr}$ 35 to 42
Thermal	R2.04 to R4.09
Wall Thickness	250mm to 356mm

* PowerBlock+ systems 1705, 1706, 1707. James Fricker Report 107.69, 107.71, 107.72 and 107.73

The unique benefits of home building with Hebel PowerBlock+

- A solid load-bearing masonry home.
- A Hebel PowerBlock+ home 'breathes' and controls moisture making it an incredibly comfortable living environment.
- With over one and half times the thermal resistance of double brick, Hebel PowerBlocks+ systems* easily exceed the Building Code of Australia (BCA) minimum energy requirements for climatic zones 1 to 7 inclusive.
- Excellent acoustic performance and sound insulation attributes.
- Design and build freedom and flexibility – easily worked with standard power tools.
- Non-combustible – up to a four hour fire rating makes the Hebel PowerBlock+

System ideal for rural or bush fire prone areas.

- Enhanced design freedom can be achieved through routing and shaping. Lintels and sill blocks complement the high aesthetic appearance.

HEBEL. Better by design. Better to build with. Better for the future.

HOW TO LAY HEBEL® BLOCKS

Shopping List

- Hebel blocks
- Poly damp proof course (DPC)
- Hebel mortar
- Hebel adhesive

Tools required

- Spirit level
- Notched trowel to match block thickness to apply Hebel adhesive
- Rubber mallet
- Sweeping brush
- Stirrer for electric drill

SECOND COURSE

1. Use Hebel Mortar for the base course bed (a standard brickwork mortar mix is suitable). Please note: the supporting structure is to be designed to full masonry standards by a practising engineer if building a Hebel handi Block wall.
2. Lay a damp proof course (DPC) slip joint membrane on the horizontal surfaces where the Hebel Blocks will be laid. This will allow for differential movement between the blocks and footings. Install the DPC prior to the application of the Hebel Mortar.
3. Lay Hebel Mortar to get the first course of blocks straight and level. Brush all loose particles and dust from the base, top and ends of each Hebel Block to be laid.

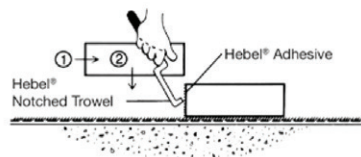


Figure A

4. Mix Hebel Adhesive using the directions on the bag.
5. Apply Hebel Adhesive to the end of the base block using a Hebel notched trowel that matches the block thickness.
6. Accurately position a Hebel Block horizontally and tap into place with a rubber mallet, ensuring the block is level in all places (FIGURE A).
7. Position the next Hebel PowerBlock adjacent to the first, and with a rubber mallet, gently tap the block end horizontally to fully close the vertical joint. All joints (Step 1, FIGURE B) should be 2-3mm.
8. Now tap the second block down into the base mortar, making it level with the first block (Step 2, FIGURE B).
9. Repeat until the first course is complete.

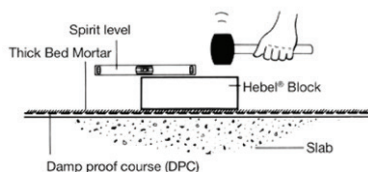


Figure B

SECOND COURSE

10. Each PowerBlock joint of the second course must overlap the joints of the first course by at least 100mm.
11. Apply Hebel Adhesive to the topside of the first course using a Hebel notched trowel that matches the block thickness.
12. Position the first block in the second course and gently tap accurately into place with a rubber mallet. All joints should be 2-3mm thick.
13. Apply Hebel Adhesive to the end of the first PowerBlock. Position the next block adjacent to the first, and with a rubber mallet, gently tap the block end horizontally to fully close the vertical joint (Step 3, FIGURE C).
14. Tap the top of the block until level with the previous blocks laid (Step 4, FIGURE C).
15. Repeat for subsequent blocks.
16. Clean any excess adhesive off the block face at the end of each course, no longer than 1-2 hours after laying the first PowerBlock.
17. Large holes can be patched using Hebel Mortar.

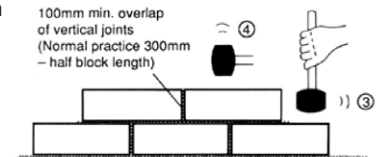


Figure C

Safety information

As with all cementitious products, the user should take all precautions associated with cutting concrete. These precautions include: P1 or P2 class respirators (for fine dust from powered cutting tools), eye protection and ear protection, as well as long sleeved clothes and gloves, as dust could irritate the skin. Hebel recommends reading all relevant Material Safety Data Sheets (MSDS) prior to working with Hebel products. MSDS's can be downloaded from the Hebel website www.hebelaustralia.com.au

Phone 1300 369 448 Email: info@hebel.com.au
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