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Better homes are built with Hebel

Hebel PowerPanel provides an attractive, modern masonry exterior that can be completed in individual finishes and colours to provide a wide range of contemporary and aspirational looks that appeal to many new homebuyers.

What is Hebel?

Hebel is Autoclaved Aerated Concrete (AAC) manufactured from sand, cement, recycled material, lime, gypsum and aerating agents and is moulded, cut and steam pressure cured in an autoclave then cut to shape in various lengths and profiles. Hebel panels are steel reinforced and coated to prevent corrosion giving them both dimensional accuracy and stability.

Hebel is an amazingly innovative building material that has been used in Europe for over 70 years and here in Australia for over 20 years.

Where can Hebel be used?

Hebel is extremely versatile and is available in panels and blocks of various sizes and widths for a broad range of load bearing and non load-bearing construction applications including external walls, floors and fences.

Hebel reduces your total cost to build

The unique Hebel System is a high performance masonry product that makes good business sense because it is fast to construct and easy to install.

The unique Hebel system does away with the need for costly and sometimes unreliable bricklayers and requires fewer skilled trades-people on site – whether you choose to install yourself using existing trades or have it supplied and installed by readily available and experienced crews.

Hebel is better to live in

You'll love coming home to Hebel. It is highly fire resistant, boasts high acoustic absorbing properties and, because Hebel is a masonry product with in-built insulation, it assists in improving energy ratings (and reducing costly energy bills for cooling and heating). It's cool in summer and warm in winter.

A more substainable choice

Hebel has attained endorsement for using 61% and 64% less embodied energy than the comparative products Concrete and Brick and 64% and 55% less Greenhouse gas emissions than the comparative products Concrete and Brick (GECA Report 2006).



HEB - 2010 Environmentally Innovative Products

Proven in the market and Australian made by CSR

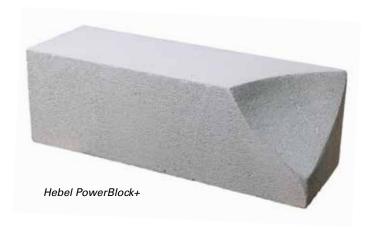
Hebel products and systems are developed in Australia by CSR Building Products Limited. With CSR you can depend on the product quality, technical expertise, warranty and stock supplies of Hebel products and systems.

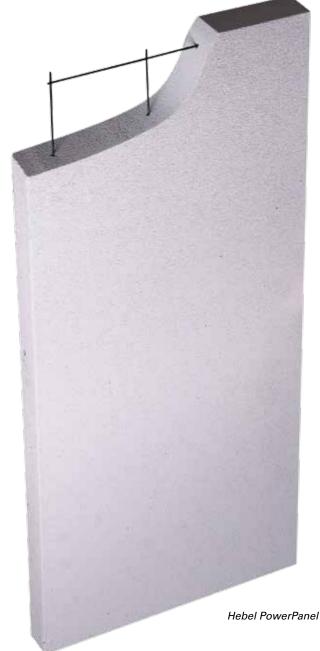




an incredible and innovative masonry building product

At the heart of the Hebel system is Hebel AAC (Autoclaved Aerated Concrete) supplied in either steel reinforced building panels or blocks.







The impressive attributes that make Hebel such an innovative, sustainable and proven building product are summarised by the following qualities:



Faster construction period

Hebel panels are faster to construct and require significantly less labour compared to traditional masonry construction techniques leading to substantial savings in site costs. Your project reaches key stages quicker (eg: lock-up in housing). Building with Hebel also means a cleaner safer work area during construction and less clean-up at completion of building.



Solid and strong

Being a masonry product, Hebel panels and blocks provide the solid feel, security and peace-of-mind associated with traditional bricks.



Fire resistant

Non-combustible and renowned for its highly fire resistant properties, suitable for all Bushfire Attack Levels under AS 3959-2009.



Comfortable living environment

Enhanced insulation performance 3 times that of brick. The thermal efficiency reduces the reliance on heating and cooling appliances with the potential of lower energy costs.



Better acoustics

Significantly reduced sound transmission between rooms and noise from external sources. Ideal for creating quiet zones.



Sustainability for a better world

Hebel delivers a diverse number of environmental benefits over brick. Hebel uses 64% less embodied energy and 55% less Greenhouse gas emissions (GECA Report, 2006) than Brick Veneer.



Proven and backed by CSR

Hebel products and systems are designed, developed and warranted in Australia by CSR.



The Hebel product range at a glance



Hebel PowerPanel is the traditional Hebel panel system that is quick and easy to install using vertically installed PowerPanels that are suited to a supply and installation service. Designed for homes built using either timber or steel framing and can be used in new dwelling construction, extensions or re-cladding.



Hebel Powerpanel^{XL} External Wall System is one of the most efficient ways to build exterior residential walls. Suitable for use on houses and low-rise multi residential projects, Hebel PowerPanel^{XL} is 20% lighter while maintaining its structural integrity to the existing Hebel PowerPanel. Combined with the patented Top Hat and screw design, these lighter panels are easier to handle and quicker to install.



Hebel Powerblock+ delivers load-bearing solid masonry qualities comparable to double brick. Hebel PowerBlock+ provides an economical, solid masonry building system and delivers superior thermal, acoustic and fire protection better than double brick. Hebel PowerBlock+ affords excellent design flexibility due to its capacity to be shaped and routed for added individuality and aesthetic appeal.



Hebel PowerFloor gives you the feel of a concrete floor at significantly lower costs and can be easily laid by your normal on-site tradesman such as carpenters. The combination of strength, thermal and acoustic insulation properties of Hebel PowerFloor make it an ideal choice for both elevated ground floor and second storey applications. Hebel PowerFloor is installed over a standard timber or steel framed sub-floor.

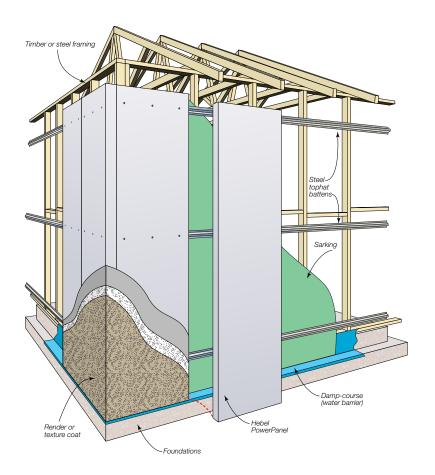


Hebel PowerFloor+ for load-bearing solid concrete floors is the ultimate concrete flooring solution, providing superior strength, thermal and acoustic properties. Hebel PowerFloor+ panels create a consistently flat, solid surface ready for all floor covering from carpet to direct fix tiles. PowerFloor+ is ideally suited to solid home construction such as a Hebel PowerBlock+ home.



Hebel PowerFence is an extremely attractive and versatile fence system that provides an efficient and effective privacy and noise barrier for residential applications.

Building external walls with Hebel



PowerPanel			
Fire	240/180/180		
Thermal	R1.54 to R3.53		
Wall Thickness	165mm to 205mm*		

*Depending on stud, cavity and Top Hat selection



High volume using specialist trades

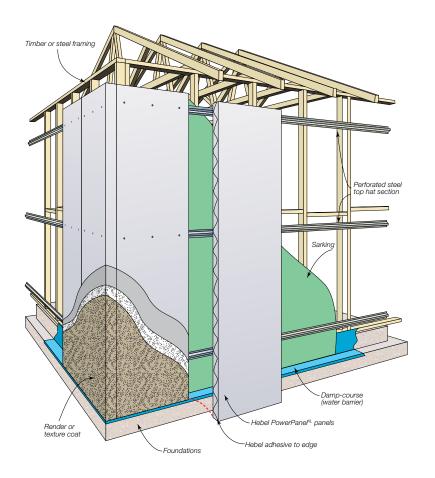
Hebel PowerPanels are fixed vertically to horizontal battens attached to the load bearing frame. PowerPanels are steel reinforced 75mm thick and are available in lengths of 1200mm to 3300mm for widths of 600mm. A 3000mm PowerPanel is equivalent in area to approximately 75 standard bricks, making for faster installation than bricks.

- The steel reinforced aerated concrete and acrylic coated panels are strong and solid and highly durable making them perfect for building in the Australian climate
- Steel reinforcing is specially coated to prevent corrosion
- Non-combustible with an FRL of 240/180/180
- Outstanding thermal and acoustic insulation qualities increase levels of comfort and save on energy heating and cooling costs
- Boasts desired environmental imperatives and has been awarded 'Good Environmental Choice Australia Label' (Heb-2010).

The unique benefits of building with PowerPanel

- Fastest most efficient way to install Hebel (2 people can install up to 150m² within 3 days depending on site conditions)
- Recommend supply and install service through specialist Hebel installers.

A better way to build framed houses



PowerPanel ^{XL}			
Fire	180/180/180		
Thermal	R1.54 to R3.54		
WallThickness	185mm to 205mm*		

*Depending on stud, cavity and Top Hat selection



The more efficient way to build

Hebel's PowerPanel^{XL} external wall system has been specifically developed to go up faster. The system consists of 75mm thick steel reinforced Autoclaved Aerated Concrete (AAC) panels fixed vertically to horizontal top hats attached to the load-bearing timber or steel frame. The panel is solid to feel, but lighter to work with.

Hebel PowerPanel^{XL} has been developed to be 20% lighter while maintaining its structural integrity. This lighter panel, combined with our new perforated steel top hat and hex head fixing system, speeds up the installation process by around 20% with a whole lot less fatigue.

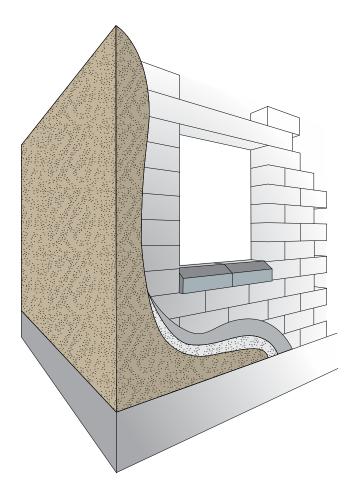
Hebel PowerPanel^{XL} is ideal for houses and low-rise multi-residential applications, including extensions and re-cladding of existing homes.

- Fastest most efficient way to install Hebel (2 people can install up to 150m² within 3 days depending on site conditions)
- Installation 60% faster than masonry using semi skilled trades.
- Easier to grip, lift and move with less wear and tear on your body
 (20% lighter and 25% faster to install than traditional PowerPanel)
- Non-combustible with an FRL of 180/180/180
- Boasts desired environmental imperatives and has been awarded the 'Good Environmental Choice Australia Label' (Heb-2010)
- Design patterns are easily machined into the PowerPanel^{XL} Panels.

The unique benefits of building with PowerPanel^{XL}

- Faster construction period –
 panels are faster to install and
 require significantly less labour
 compared to traditional masonry
- Lightweight yet solid and tough as brick.

PowerBlock+ the premium alternative to double brick



Block Walls			
Fire	240/240/240		
Acoustic	R _w + C _{tr} 35 to 42		
Thermal	R2.04 to R4.19		
Wall Thickness	266mm to 356mm		



Solid masonry construction in Australia has long been regarded as a premium home building method. Hebel Block 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 Hebel Block is 600mm x 200mm. External Hebel Block walls are typically constructed using 250mm thick Hebel Blocks whilst internal non-loadbearing block walls generally use the 100mm thick block. The large format blocks are lightweight and, forming a single wall, are rapidly installed.

The unique benefits of home building with Hebel PowerBlock+

- A solid load-bearing masonry home
- Exceptional thermal resistance and improved moisture control over other building systems, means the home 'breathes' leading to higher energy efficiency and greater homeowner comfort
- 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 Hebel Block 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 is ideal for bath, shower and spa hobs

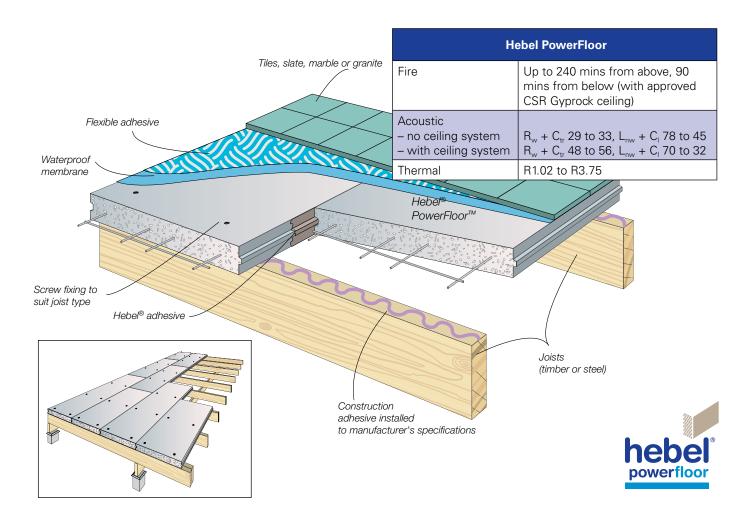
Hebel is light, easy to work with and quick to install. The excellent thermal properties help maintain the heat in spas and baths, thereby saving energy and money.

The unique benefits of using Hebel for Hobs

- Easy to use and easy to lay
- Easily cut to size
- Quality Australian made product.



Building solid floors with Hebel



The feeling of concrete for a lot less

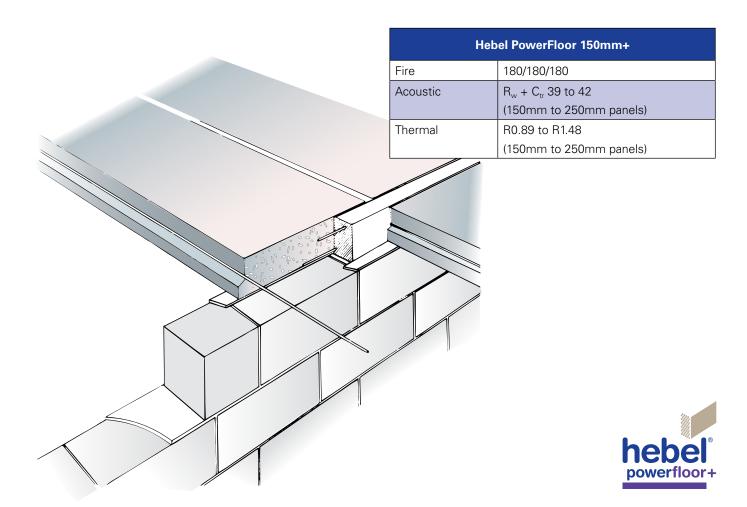
Hebel PowerFloor consists of 75mm steel-reinforced aerated solid concrete floor panels installed over steel or timber joists to give an excellent, solid base for just about any floor covering.

This provides a superior floor solution with accoustic and thermal insultation benefits and provides the feel of a solid concrete floor at a significantly lower cost and much less time.

The unique benefits of constructing your floor with Hebel PowerFloor

- Solid feel eliminating the bounce and flex of timber sheet flooring
- Superior thermal performance particularly for suspended floors on sloping sites
- Extremely strong, each panel is reinforced with corrosion-protected steel mesh. The panels fit snugly together to form a strong and smooth floor
- Not affected by weather during installation
- Faster and cleaner than installing concrete floors
- Hebel PowerFloor can be easily installed by normal on-site tradesmen such as carpenters
- Reduces foot-fall, airborne noise between floors and eliminates squeaking associated with particle board floors.

PowerFloor+ the sound investment when it comes to solid floors

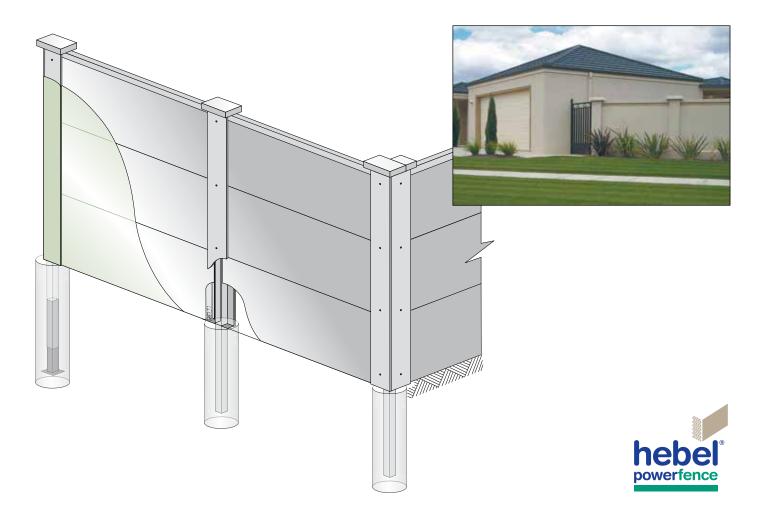


Hebel PowerFloor+ is the ultimate concrete flooring solution, providing superior strength, thermal and acoustic properties in a load bearing modular solid aerated concrete flooring system. Hebel PowerFloor+ is available in 150mm to 250mm thickness and eliminates the need for timber or steel floor framing or the pouring of concrete.

The unique benefits of using Hebel PowerFloor+ for your floor construction

- Reduces foot-fall, airborne noise between floors and eliminates squeaking associated with particle board floors
- Hebel Floor provides a load bearing span up to 5.85 metres without floor framing or joists
- Achieves structure fire rating of FRL 180/180/180 without relying on ceiling systems
- Extremely strong, each panel is reinforced with corrosion-protected steel mesh. The panels fit snugly together to form a strong and smooth floor
- Superior thermal efficiency assists in achieving thermal ratings that results in reduced heating and cooling costs
- No propping or curing of concrete required.

PowerFence makes fencing easy



The innovative, alternative to brick

Hebel PowerFence is an extremely attractive and versatile fence system that provides an efficient and effective privacy and noise barrier for residential applications. It blends perfectly with rendered masonry homes.

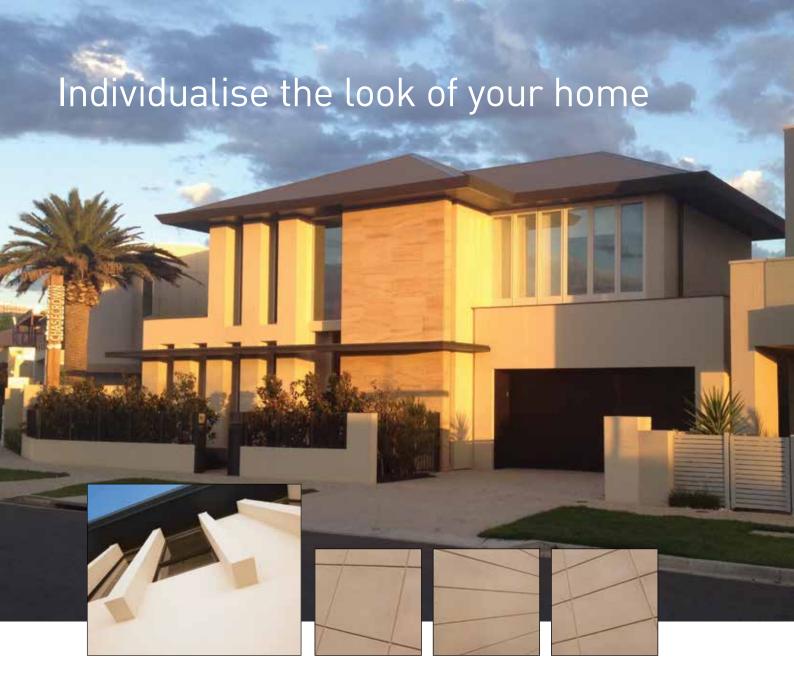
Perfect for boundary fencing and low front walls, Hebel PowerFence provides amodular masonry structure using lightweight panels and steel posts which can be easily and quickly erected without the need for extensive excavation or strip footings, as is normally the case for traditional masonry fence construction.

The standard Hebel PowerFence system can also be adapted to include a range of different decorative treatments such as timber panels or ironwork.

There are two standard PowerFence systems – Expressed and Monolithic and panels can be routed to add a stylish, finishing individual design touch. The standard PowerFence system can also be adapted to include a range of different decorative treatments such as timber panels or ironwork.

The unique benefits of building fences with Hebel PowerFence

- Simple, cost effective and attractive. Creates privacy and acts as reflective noise barrier system
- Perfect for boundary fencing and as an alternative to standard masonry for low front fences
- Range of wall profiles and looks can be created giving you design freedom and flexibility
- Non combustible the perfect choice for bushfire prone areas.



Hebel provides greater design possibilities by adding individual detailing and patterns to your facade, entry or feature walls. While Hebel is strong, solid robust and resilient, it is also perfectly suited to creating patterns through a routing process. Choose from a range of prerouted panel designs or create your own individual and unique design statement.

You can select from a range of visual effects from high build acrylic renders and textures to simple acrylic coatings to achieve the visual appeal you want to complete your design. If you choose a rendered finish which includes painting, you always have the freedom to give the building a totally new look and refresh when you want.

Coatings are available to help you deliver the perfect finish to any Hebel project and engineered to accommodate the unique physical characteristics of Hebel.

Please ensure you select an appropriate external coating system that is compatible with the Hebel substrate and provides the performance requirements as recommended and specified by CSR Hebel. Application and maintenance of such a coating system is to be as directed by the coating suppliers specification and conditions of warranty.



The better way to build

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The better way to build

Hebel is a quality building product, and is backed by CSR Building Products Limited.

Further details on engineering and building with Hebel systems are available in the Hebel Design Guides and Technical Manual. To obtain a copy, or for further sales or technical assistance, please visit our website.

Hebel website:

hebelaustralia.com.au

For sales enquiries or further information, please telephone us from anywhere in Australia:

1300 369 448

Guarantee

Hebel guarantees the products manufactured by itself and the systems described in Hebel literature for 7 years, subject to the terms and conditions of the Hebel Guarantee which can be inspected in the Hebel website at hebelaustralia.com.au. Hebel does not however guarantee the components, products or services, such as installation, supplied by others. Hebel recommends that only products, components and systems recommended by it be used.

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