

# HEBEL DETAILS



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## Hebel Fire Surrounds For Warmington Firebox Inserts



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### 1. General

This specification covers the construction of Hebel Autoclaved Aerated Concrete surrounds for Warmington free standing exterior fireplaces.

### 2. Materials

The fire surround shall only be constructed from Hebel Autoclaved Aerated Concrete panels and block. Panels shall be 75 mm thick Hebel with a single layer of corrosion protected reinforcement. All Hebel products must be glued using Hebel Adhesive mixed in accordance with instructions on the bag.

### 3. Qualifications

The Hebel fire surround must only be constructed by a certified Hebel installer, or under the supervision of a Hebel Distributor or his representative.

### 4. Health and Safety

Note that the use of power tools to cut any concrete product causes dust that contains respirable crystalline silica with the potential to cause bronchitis, and lung diseases after repeated and prolonged exposure. When using power or hand tools on Hebel products, wear a P1 or P2 respirator, eye protection and hearing protection. Wherever possible, use dust extraction equipment on power tools.

### 5. Cutting of Panels

Hebel panels shall be cut dry using a portable power saw fitted with a segmented diamond blade. All reinforcing exposed after cutting shall be coated with a liberal application of Hebel Corrosion Protection Paint in accordance with the instructions on the container.

### 6. Application of Hebel Adhesive

Care shall be taken to remove all dust from surfaces to be glued. The Hebel should be dry before gluing and Hebel Adhesive applied with a notched scoop trowel (4 mm notches). The finished joint should be between 1 mm and 3 mm thick and all excess adhesive removed immediately. Hebel Adhesive should not be used when there is any possibility of the glue freezing before completely curing.

### 7. Hearths

Hearths shall be constructed to the overall sizes specified by Warmington using 75 mm Hebel Panel for the hearth on support walls of 150 mm Hebel block. The maximum centre to centre distance between support walls shall be 600 mm and support walls should also align with the location of the fire surround walls above.

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### 8. Firebox surround

The firebox surround shall be constructed to the sizes specified by Warmington for the specific fire being used. The front lintel must be the full width of the surround (i.e. extend past the side panels) and the minimum seating for the lintel panel shall be 180 mm. The Maximum height of the surround shall be 1600 mm. Corner joints should be glued and screwed with 14 – 10 x 150 mm hex. head screws at maximum centres of 600 mm. Screws should be no closer than 150 mm from the ends of panels and should be driven below the surface for a 5 mm to 10 mm countersink. Countersinks should be filled with Hebel Adhesive, thickened with Hebel dust if necessary.

### 9. Capping

The top of the chimney portion of the structure must have either a Hebel Panel capping with flue flashing or a galvanized/Zincalume flashing to prevent water from entering the inside of the surround. The Hebel Panel capping should be plastered with a fall away from the flue.

### 10. Coating Preparation

Any damaged or chipped areas shall be made good with Hebel adhesive thickened with Hebel dust. All exterior surfaces shall be sanded smooth and all dust removed from the surface.

### 11. Coating

All exterior surfaces must be waterproofed with an acrylic coating system and all non vertical surfaces should be tanked with a waterproof roofing membrane. The coating system chosen should incorporate either a fibreglass strand reinforced layer, or a full fibreglass mesh layer.

Acrylic coating systems which can be used successfully over Hebel Panel Cladding are as follows:

Dulux Acratex

Sto Poro System (incorporating Lvellite basecoat/Sto RFP Armat mesh coat/Stolit finishing render and Sto Silco G topcoat

Wattyl Granosite Powertrowel systems

Rockcote Hebel Render System

Nuplex Flexicote

Plaster Systems Ltd Autoclaved Aerated Concrete Texturing System

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