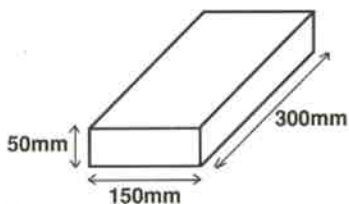


# Sealmaster



## FIREBRICK

Firebricks are tough and durable and are designed to form a demountable, temporary or permanent fire resistant barrier which may have cables and pipework or other penetrations passing through it. They are lightweight, and can be installed quickly and efficiently, and cannot be removed accidentally. In the event of fire, Firebricks are highly resistant to smoke and flames, while the intumescent coating expands to seal small gaps and holes.

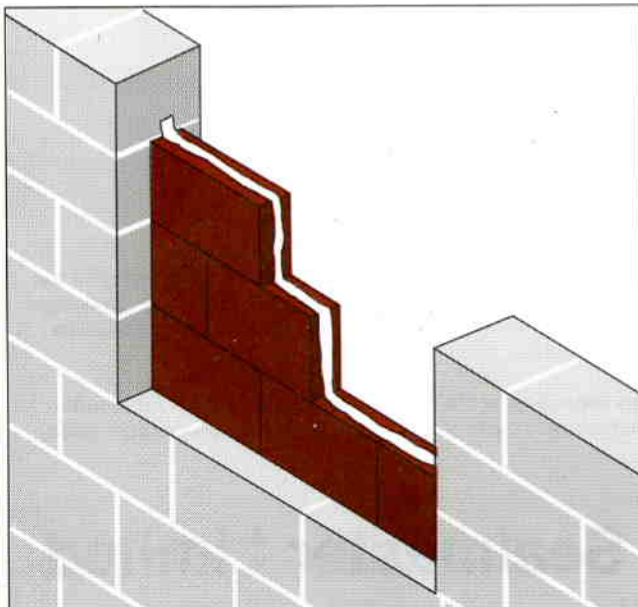


Firebrick dimensions

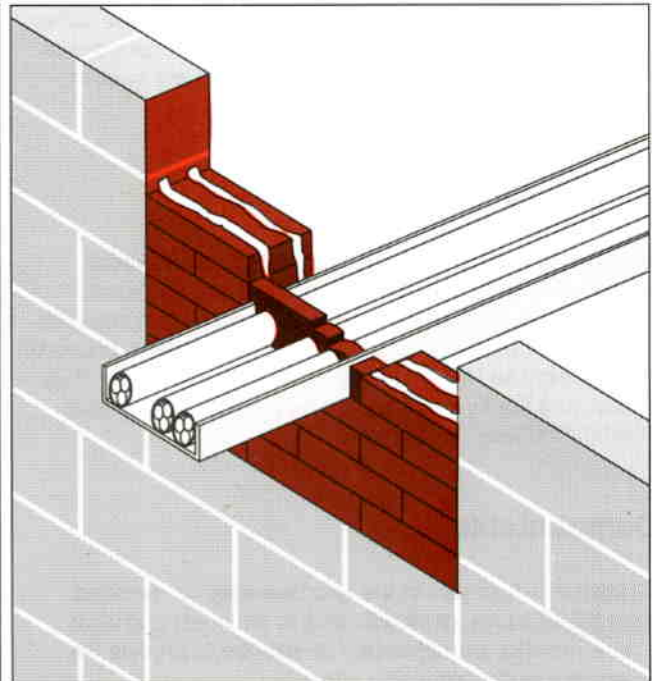
### Fitting Instructions

Firebricks are suitable for use in vertical apertures. Depending on the period of fire resistance required, Firebricks may be laid in three different attitudes, **A**, **B** or **C** as shown, to obtain three wall thicknesses. The thicker the barrier, the longer the fire rating. When tested to BS 476, Firebricks forming a vertical barrier in mode **A** achieved a fire rating of 1½ hours, and similarly **B** and **C** achieved in excess of 2 hours.

When Firebricks are used to form a barrier in attitude **A**, the cruciform steel stabilising pins supplied should be used to ensure full performance. If bricks are laid in attitudes **B** or **C**, stabilising pins are not required. Firebricks should be laid with staggered intermediate joints to assist rigidity.



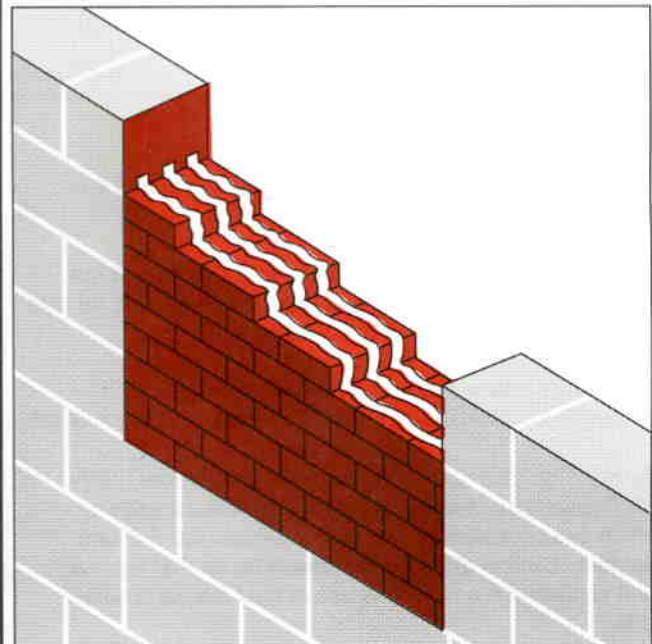
Firebricks laid in attitude **A** with stabilizing pins and sealed using Sealmaster Silicone Sealant



Firebricks laid in attitude **B** with service penetration. Sealed using Sealmaster Firefoam and Silicone Sealant.

### Sealing

**Sealmaster Silicone Sealant** should be used to seal the bricks against the periphery of the aperture, and also to seal all interfaces between each brick. Follow the application instructions provided with the sealant, and lay one, two or three beads of sealant for Firebrick structures formed in modes **A**, **B** or **C** respectively.



Firebricks laid in attitude **C** with Sealmaster Silicone Sealant.

## Cutting

Firebricks can be cut easily with a hand saw to fill irregularly shaped apertures or to fit around services and penetrations. If possible, turn any cut bricks so that the cut face is in contact with the coated surface of another Firebrick. This is done to ensure that the interface is sealed with a layer of intumescent material. If it is not practical to do this, seal the interface between any cut faces of Firebrick and service penetrations or the periphery of the aperture with **Sealmaster Firefoam**. Position the *coated* surface rather than the foam surface of Firefoam against the cut edge of Firebrick so that if a fire occurs, the coating will swell to seal the area.

## Pipe Closers

If thermally softening pipes pass through the Firebrick barrier, they will need to be protected using Sealmaster TC1 Pipe Closers. The Pipe Closer must be supported independently of the Firebrick structure, and special brackets will probably be required. The interface between the Pipe Closer and the Firebrick should be protected using Sealmaster Firefoam.

## Demountable

If required, all, or part of the structure may be removed from the aperture for modification to services, and whatever Firebricks are necessary re-instated to provide fire resistance to the remaining space.

## Technical Information

**Material:** Resin bonded high density mineral fibre block with ammonium polyphosphate based intumescent coating on all faces.

**Density:** Mineral fibre block has a density of 170kg/m<sup>3</sup>.

**Size:** 300mm x 150mm x 50mm.

**Colour:** Firebrick coating is red.

**Aperture size:** Suitable for apertures up to 750mm x 750mm.

**Durability:** Firebricks are dimensionally stable, and are water and moisture resistant. They are designed to be able to withstand the rigours of the building site.

**Other properties:** Firebricks have good thermal and acoustic insulation properties, and are vermin and rot proof.

**Safety:** Firebricks are asbestos and halogen free. Only small quantities of fibres are released from cut edges, which can be sealed with a skin of Sealmaster Silicone Sealant. Cutting of Firebricks should be carried out in a well ventilated area, and the use of dust masks is advisable.

**Storage:** Store in a cool dry place before installation.

## Availability

Firebricks are available ex-stock, with delivery normally within 7-10 days. Express overnight delivery can also be arranged on request.

## Services

Sealmaster provide initial design services with technical support at all stages of work from planning through to site installation, without obligation.

## Installation

Sealmaster can take on the total package responsibility of supply and installation using in-house expertise or approved specialist sub-contractors. Also available is a unique annual monitoring service for five years after installation.

## Further Information

Our sales and technical teams will be only too pleased to provide further advice or technical information on Sealmaster's fire penetration systems or any form of passive fire protection.

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# Sealmaster Limited

PAMPISFORD CAMBRIDGE CB2 4HG ENGLAND

Telephone: (0223) 832851 Facsimile: (0223) 837215