



FSI STOPSEAL BOARD SYSTEM

Introduction

The purpose of this document is to give guidance to approved contractors and suppliers who are engaged in the fire stopping of service penetrations in walls and floors using the FSI Stopseal Board System.

All service holes through floors and compartment walls must be fire stopped to prevent the passage of fire, smoke and hot gases.

The result of this work will: -

Prevent the spread of fire, smoke and hot gases through a building by containing it in the compartment of origin.

Maintain the integrity of escape routes from a building.

Reduce loss or damage to property from the effect of fire and smoke.

Maintain pressure differential between compartments and ventilation channels.

Training

All operative to be engaged in the installation of FSI Stopseal Board must have received relevant training from Firestopit Technical Department and be certified accordingly. All installation work must be carried out in accordance with the guidelines laid down in this document.

The training facilities are provided by Firestopit Technical Department to ensure the correct installation procedures are followed to the approved Stopseal Board specification and to maintain a high standard of workmanship and quality.

Tools and Equipment

The FSI Stopseal Board System can be simply installed using the following tools and equipment:

- Steel Tape Measure - 2 metre minimum
- Cartridge Gun
- Carpenters Pencil & Straight Edge
- Masking Tape
- All Purpose Saw
- Hand Brush & Dust Pan



Registered in England No. 4077036
Swadlincote Road Woodville, Swadlincote, Derbyshire, DE11 8DD, UK
Telephone: +44 (0) 1283 229022 Facsimile: +44 (0) 1283 22219

FSM – Issue 7 - 0402





- Bread Knife
- Plastic Sheeting
- Pointing Trowel
- Pallet Knife

Preparation for Installation

Ensure that all service penetrations are complete and installed to the satisfaction of the main contractors/clients approval.

Remove all unnecessary combustible materials from the opening. Using a dust pan and brush, sweep all loose products from the inner surface of the opening and surrounding local to the installation.

Place a plastic sheet beneath the working area to catch any falling materials.

Remove any insulation or lagging from air ventilation ducts and pipes to ensure a good seal with the FSI Stopseal Board System.

Type of Seal and Size

The suitability of the FSI Stopseal Board System is governed by the recommendations available from the fire test carried out by the independent fire test authority. The following are the maximum sizes of openings suitable for the Stopseal Board System.

	LENGTH (M)	WIDTH / HEIGHT (M)
WALL	NO LIMIT	2.4
FLOOR	2.4	1.2

Table 1 – Allowed Seal Sizes

Fire Rating to BS1366 part 3	
Integrity	Insulation
4 Hours	29 minutes (On services) 142 minutes (On board)

Table 2 – Seal Ratings

FSI Stopseal Board is supplied as a 1200mm x 600mm x 50mm board.





Various considerations dictate, which type, is to be used. These considerations may be obstructions, which prevent a certain type being used, irregular holes (broken through concrete slab floors for example), insufficient thickness of floor slab or wall to accept the thickness of the seal. In this case the following installation instruction should be followed, but fix the Stopseal Board to the face of the floor / wall with a 100mm overlap of the substrate.

FSI Stopseal Board is approved to be used in wall and floor slabs made from various substrates, most commonly Brick, Block work, Concrete, Dry lining walls and Steel clad walls.

Additional Mechanical Supports

Based on the technical assessments carried out by an approved fire test authority, the following recommendations are given for the satisfactory installation of the FSI Stopseal Board System on openings larger than 1200mm x 600mm containing no services (clear opening).

In this case, 30 x 30 x 1.6mm or similar steel angles should be positively fixed at 1200mm centres or nearest in one direction and at 600mm or nearest at 90° to form modules where FSI Stopseal Board can be fixed using FSI Stopseal Coating.

These metal supports should be fixed using expanding Rawl bolt or cartridge nails to the surrounding substrate.

Installation of FSI Stopseal Board

Measure the size of the opening, relevant position and size of the services. Mask all surfaces where necessary to ensure the aesthetics of Stopseal Sealant.

Draw these details onto the Stopseal Board and cut out using a saw or bread knife.

Fit the cut Stopseal Board into the opening, ensuring a tight friction fit push the Board firmly in to the opening using the flat of the hand. The seal should be made up from as few pieces of Stopseal Board as practicable.

Any small gaps in the seal left when all cut pieces have been installed should be tightly packed with off-cuts and coated with Stopseal Coating. A layer of Stopseal Coating should be applied to all joint lines formed by piecing the seal.

To complete the installation a small bead of Stopseal Sealant or Coating should be applied around the extremities of the opening and services. Whatever the edges of the seal line with the wall / floor surface, the bead of sealant should be smoothed to overlap the wall / floor surface by approximately 5mm. Remove any masking and dispose of waste materials.

When a fire seal is built up as outlined above the joints must be offset.

Loose Cables, Cable Trunkings & Conduits

Where possible, loose cables should be drawn together and tied after a liberal application of Stopseal Coating to seal any void.



Registered in England No. 4077036
Swadlincote Road Woodville, Swadlincote, Derbyshire, DE11 8DD, UK
Telephone: +44 (0) 1283 229022 Facsimile: +44 (0) 1283 22219
FSM – Issue 7 - 0402





It is necessary to fill the inside of cable trunkings prior to installation of the Stopseal Board around the trunking. Remove the trunking lid, lift the cables out and apply a generous amount of Stopseal Coating and bed the cables in to the coating.

Should only a few cables be in side the trunking it would be necessary to install Stopseal Board or fire pillows inside the trunking.

Replace the trunking lid and continue to install seal around the outside.

Conduits should be filled with Stopseal Sealant at the nearest access plate.

Apply a label detailing installation date and type of seal.

Plastic Pipes

On plastic pipes the Stopseal Board System can only be used where an intumescent Stopseal Collar has been mechanically fixed using steel angles 30 x 30 x 1.6mm or similar fixed to the surrounding substrate.



Registered in England No. 4077036
Swadlincote Road Woodville, Swadlincote, Derbyshire, DE11 8DD, UK
Telephone: +44 (0) 1283 229022 Facsimile: +44 (0) 1283 222219

FSM – Issue 7 - 0402

