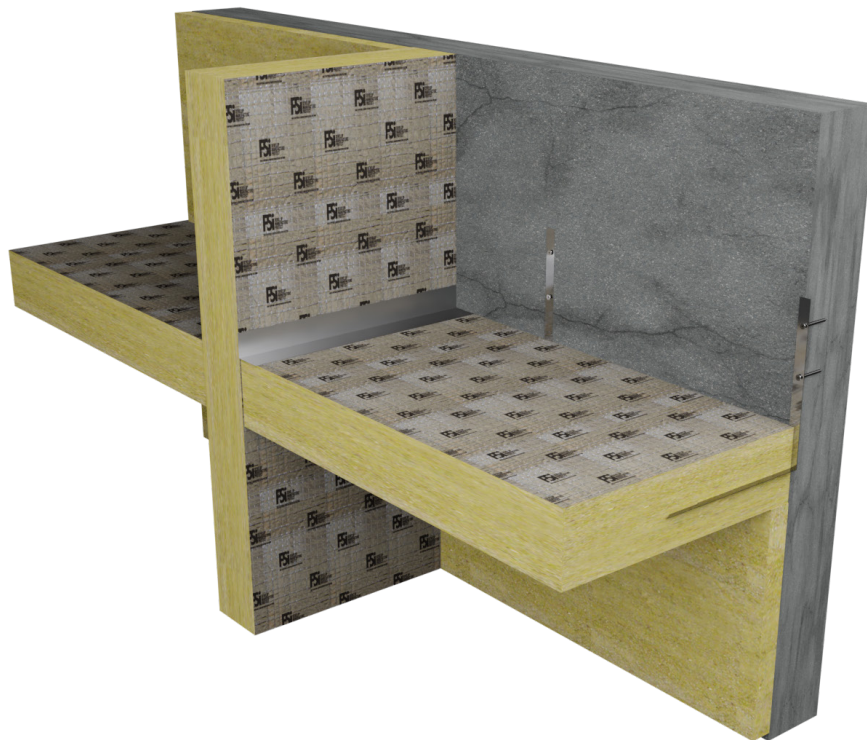


# Paraflam®

## Technical Data Sheet



UAE Certificate of  
Compliance

APPROVED  
CF 5126

ETA 16-0763  
GE-0843-CPR-JA0331

FSi Limited  
Westminster Industrial Estate  
Tamworth Road  
Measham  
DE12 7DS  
UK



[www.fsilttd.com](http://www.fsilttd.com)  
Email: [technical@fsilttd.com](mailto:technical@fsilttd.com)  
Tel: +44 (0) 1530 515130  
Fax: +44 (0) 1530 273564

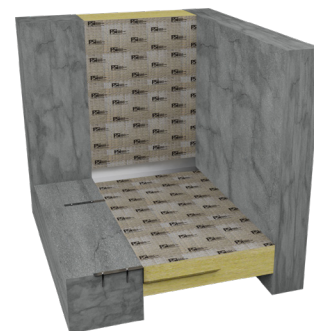
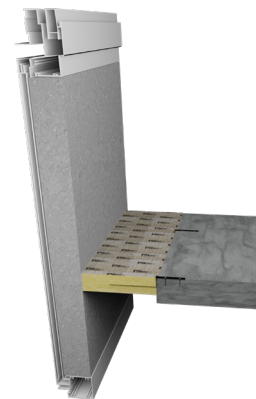
Paraflam® is a perimeter fire stop designed for curtain walling and cavity barrier external rainscreen facades. Paraflam® is a non-combustible stone wool based product with a foil facing which prevents fibre migration and provides an excellent seal. It is designed to reinstate the fire resistance of a compartment, as well as offering good thermal and acoustic performance.

### Intended areas of use

- Masonry construction
- Curtain wall and perimeter facades
- External rainscreen facades
- Large horizontal and vertical joints in walls and floors
- Fire stop for internal apertures

### Key product advantages

- Dry fit (no cure time required)
- Easy friction fit system
- High speed installation
- Non-combustible
- Lightweight
- Testing in voids up to 590mm
- Provides smoke seal
- Minimal waste
- Excellent acoustic performance



**Product Specification**

Product Description	
Size (W x L)	1200mm x 1000mm (pre-cut lengths available)
Thickness	75mm, 100mm, 120mm
Density	Nominal 80kg/m <sup>3</sup>
Appearance	Aluminium foil
Weather Resistance	Yes
Storage Conditions	To be stored in dry conditions

**Test Data**

Test Description	Result	Test Standard
Fire Resistance	Up to 120 minutes	EN 13501-2, EN 1366-4, BS 476:20
Reaction to Fire	Class A1	EN 13501-1
Acoustic	Up to 34dB	EN ISO 10140-2:2010
Air Permeability	600 Pa 0.4m <sup>3</sup> /h	EN1026
Durability	Type Z <sub>2</sub>	EAD 350141-00-1106
Thermal Conductivity	0.034w/mk	
Cavity Size	Up to 590mm	EN 13501-2, EN 1366-4, BS 476:20
Movement	<7.5%	EAD 350141-00-1106

FSi has Technical Representatives who provide assistance in the selection and specification of FSi products. For more information, specification and technical advice please call our Head Office on Tel: +44 (0) 1530 515130. Guarantee / Warranty: FSi products are manufactured to rigid standards of quality. No liability can be accepted for the information provided in this document although it is published in good faith and believed to be correct. FSi Limited reserves the right to alter product specifications without prior notice, in line with our Company policy of continuous development and improvement.

## Product Information

### Substrates

Block, masonry, aerated concrete and concrete must be within a density range of 450 to 2300kg/m<sup>3</sup>. CP (cement particle) board and concrete cladding must be within a density range of 450 to 2300kg/m<sup>3</sup>. Timber must have a minimum density of 510kg/m<sup>3</sup>. All substrates must have at least the same Fire Resistance as is required by the fire stopping system.

### Installation and Fixing

All substrates clean and free from loose or flaking material.

Paraflam® can be supplied in either pre-cut lengths or in sheet form to be cut on site. The size of the cut should accommodate the size of the opening and a minimum compression of 5-10mm.

Where brackets are required Paraflam® must be supported at the correct distances and number of brackets as indicated in the information in this document. The steel support brackets are to be mechanically fixed to the substrate with suitable fire resistant anchors. Lengths in excess of 600mm will require minimum 2 brackets.

Joints between each length of Paraflam® shall be a straight joint, ensuring a tight fit. Self adhesive foil tape is then applied to each abutting length of Paraflam® to provide a smoke seal and prevent fibre migration.

### Classification Terminology

Fire resistance classes are: E = Integrity, the product can withstand the fire from the non-fire side, I = Insulation, the product can withstand the temperature rise on the unexposed side of the furnace.

# FIRE STOP HORIZONTAL/VERTICAL

## Products

- 1 - Paraflam®
- 2 - Steel brackets

## Supporting Construction

Rigid Walls and Floors  
(As per UL-EU-01151-CPR)

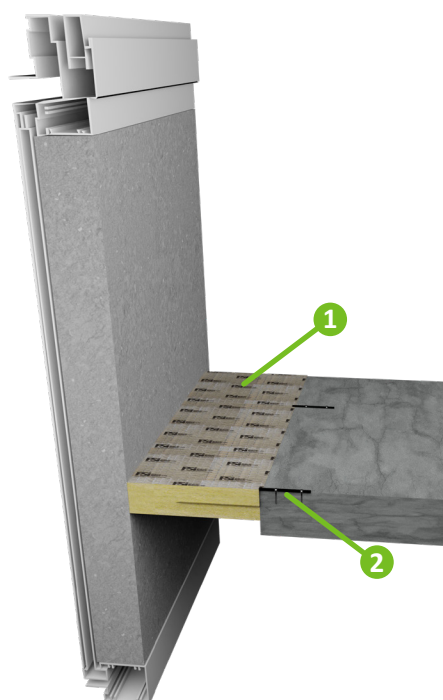
## Fixing Detail Reference Table

Detail No.	Fixing Centres	Side of Seal
1*	600mm	One
2*	600mm	Both
3*	550mm	One

## Maximum Void Size (mm)

450

Fixing Detail	Product Depth (mm)	Integrity (minutes)	Insulation (minutes)	Standard
1*	75	30	30	EN1366-4
1*	100	60	60	
1*	120	120	120	



## Installation

- Steel angle brackets 1.5mm thick installed at mid depth of the Paraflam® system ensuring that the bracket spans a minimum 50% of the cavity width. The brackets are to be mechanically fixed to the substrate with a suitable fire resistant anchor.
- Install Paraflam® into the opening with a minimum 5mm compression fit between the substrates and tightly packed for a friction fit. Leaving no gaps between abutting Paraflam® systems.
- Once the Paraflam® is installed, tape over all abutting lengths of Paraflam® with silver foil tape to provide a smoke seal and prevent fibre migration.

# CAVITY BARRIER HORIZONTAL/VERTICAL

## Products

- 1 - Paraflam®
- 2 - Silver foil tape
- 3 - Steel brackets

## Supporting Construction

Rigid Walls and Floors  
(As per UL-EU-01151-CPR)

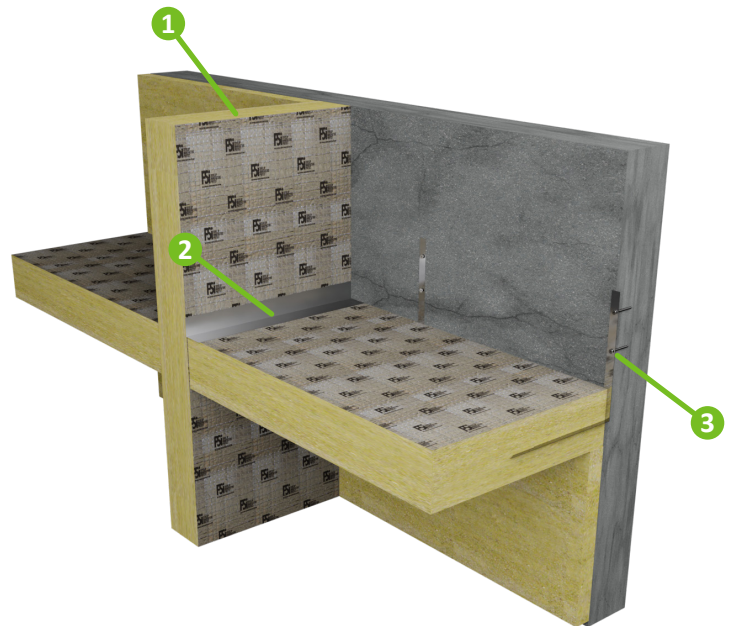
## Fixing Detail Reference Table

Detail No.	Fixing Centres	Side of Seal
1*	600mm	One
2*	600mm	Both
3*	550mm	One

## Maximum Void Size (mm)

450

Fixing Detail	Product Depth (mm)	Integrity (minutes)	Insulation (minutes)	Standard
1*	75	30	30	EN1366-4
1*	100	60	60	
1*	120	120	120	



## Installation

- Steel angle brackets 1.5mm thick installed at mid depth of the Paraflam® system ensuring that the bracket spans a minimum 50% of the cavity width. The brackets are to be mechanically fixed to the substrate with a suitable fire resistant anchor.
- Install Paraflam® into the opening with a minimum 5mm compression fit between the substrates and tightly packed for a friction fit. Leaving no gaps between abutting Paraflam® systems.
- Once the Paraflam® is installed, tape over all abutting lengths of Paraflam® with silver foil tape to provide a smoke seal and prevent fibre migration.

# CAVITY BARRIER HORIZONTAL/VERTICAL

## Products

- 1 - Paraflam®
- 2 - Silver foil tape

## Supporting Construction

Rigid Floors and Walls (as per CF5126)

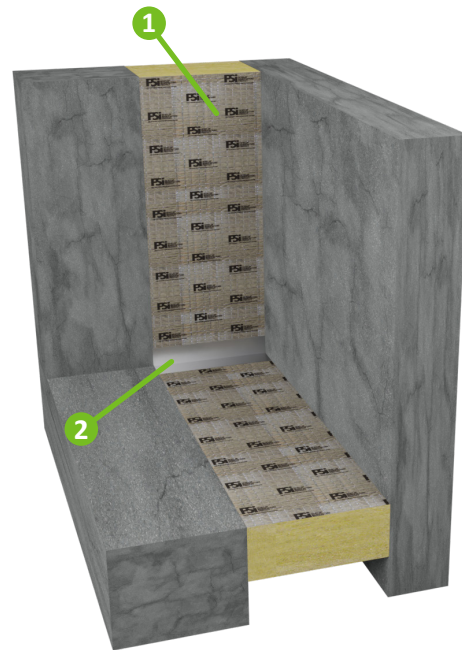
## Fixing Detail Reference Table

Detail No.	Fixing Centres	Side of Seal
1*	600mm	One
2*	600mm	Both
3*	550mm	One

## Maximum Void Size (mm)

150

Fixing Detail	Product Depth (mm)	Integrity (minutes)	Insulation (minutes)	Standard
N/A	100	120	60	EN1366-4



## Installation:

- Install Paraflam® into the opening with a minimum 10mm compression fit between the substrates and tightly packed for a friction fit. Leaving no gaps between abutting Paraflam® systems. Once the Paraflam® is installed, tape over all joints/junctions with silver foil tape ensuring all abutting edges are sealed.
- Once the Paraflam® is installed, tape over all abutting lengths of Paraflam® with silver foil tape to provide a smoke seal and prevent fibre migration.

# CAVITY BARRIER HORIZONTAL/VERTICAL

## Products

- 1 - Paraflam®
- 2 - Silver foil tape
- 3 - Steel brackets

## Supporting Construction

Rigid Floors and Walls (as per CF5126)

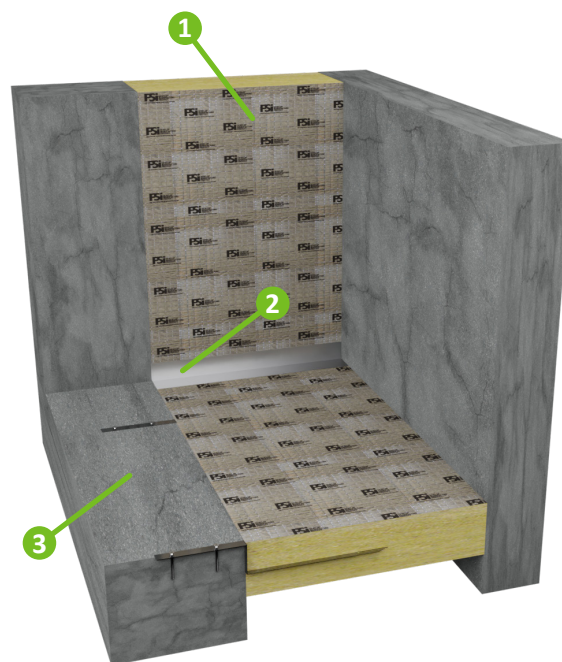
## Fixing Detail Reference Table

Detail No.	Fixing Centres	Side of Seal
1*	600mm	One
2*	600mm	Both
3*	550mm	One

## Maximum Void Size (mm)

590

Fixing Detail	Product Depth (mm)	Integrity (minutes)	Insulation (minutes)	Standard
3*	100	120	60	BS476-20



## Installation

- Where required, steel angle brackets 1.5mm thick installed at mid depth of the Paraflam® system ensuring that the bracket spans a minimum 50% of the cavity width. The brackets are to be mechanically fixed to the substrate with a suitable fire resistant anchor.
- Install Paraflam® into the opening with a minimum 10mm compression fit between the substrates and tightly packed for a friction fit. Leaving no gaps between abutting Paraflam® systems.
- Once the Paraflam® is installed, tape over all abutting lengths of Paraflam® with silver foil tape to provide a smoke seal and prevent fibre migration.