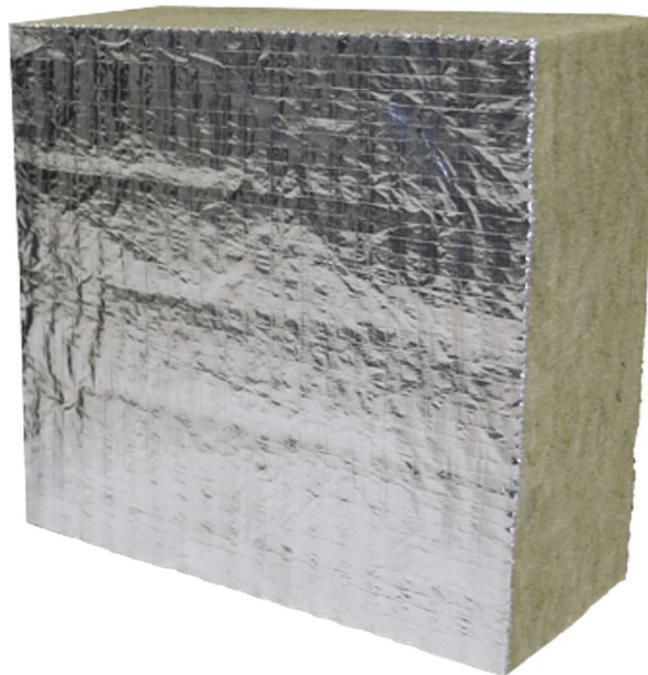


Paraflam®

Technical Data Sheet



UAE Certificate
of Compliance

APPROVED
CF 5126

ETA 16-0763
CE-0843-CPR-
JA0331

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Paraflam® is a perimeter barrier designed for curtain walling. Paraflam® is a non-combustible stone wool based product with a foil facing which prevent fibre migration and provides an excellent seal. It is designed reinstate the fire resistance performance as well also thermal and acoustic values.

Intended areas of use

- Fire resistance
- Curtain walling systems
- Large horizontal and vertical joints in walls and floors
- Indoor use
- Where thermal performance is required
- Where acoustic performance is required

Key product advantages

- Easy friction fit system, high speed installation
- Non-combustible
- Lightweight
- Testing in voids up to 560mm
- Provides smoke seal
- No cure time required
- Offers smoke seal
- Minimal waste



Product Specification

Product Description	
Size	1200mm x 600mm x 100mm
Density	Nominal 80kg/m ³
Appearance	Aluminium foil
Weather Resistance	Yes
Storage Conditions	To be stored in dry conditions between 5°C - 30°C
Expected Shelf Life	N/A

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 ³ /h	EN1026
Durability	Type Z ₁	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/m³. CP (cement particle) board and concrete cladding must be within a density range of 450 to 2300kg/m³. Timber must have a minimum density of 510kg/m³.

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 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.

Joints between each length of Paraflam® shall be a straight joint, fitted under compression ensuring a tight fit. Self adhesive foil tape is then applied to all joints between substrate and product 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.

CAVITY BARRIER IN RIGID WALL AND FLOOR

Products

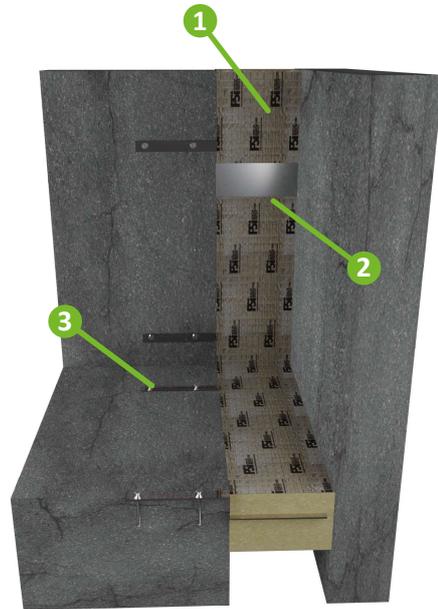
1. Paraflam®
2. Silver foil tape
3. Steel brackets

Supporting Construction

Block, concrete, aerated concrete, masonry walls and floors $\geq 150\text{mm}$

Fixing Detail Reference Table

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



Joint Width (mm)	Fixing Detail	Integrity (minutes)	Insulation (minutes)
1-150	N/A	120	60
151-350	1*	60	30
351-560	2*	60	30

Installation

- Mild steel angle brackets 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 10% 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.

CAVITY BARRIER IN RIGID FLOOR

Products

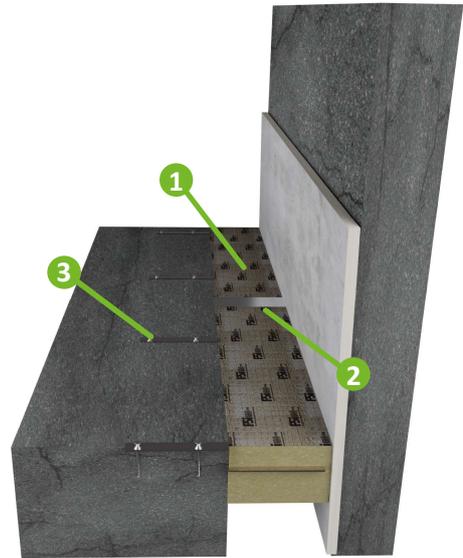
1. Paraflam®
2. Silver foil tape
3. Steel brackets

Supporting Construction

Block, concrete, aerated concrete, masonry, cement particle board ≥150mm

Fixing Detail Reference Table

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



Joint Width (mm)	Fixing Detail	Integrity (minutes)	Insulation (minutes)
1-150	N/A	120	60
151-350	1*	60	30
351-560	2*	60	30

Installation

- Mild steel angle brackets 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 10% 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.

CAVITY BARRIER IN RIGID FLOOR

Products

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

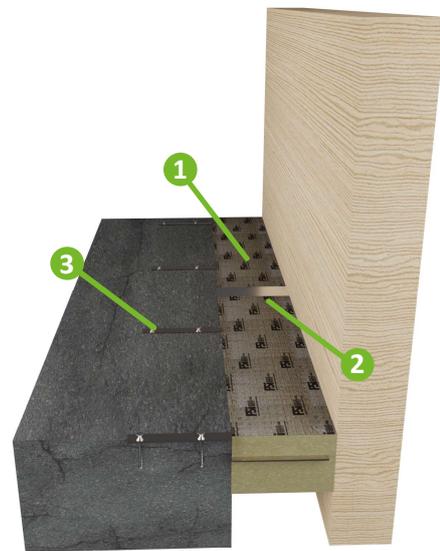
Supporting Construction

Block, concrete, aerated concrete, masonry, timber ≥150mm

Fixing Detail Reference Table

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

Joint Width (mm)	Fixing Detail	Integrity (minutes)	Insulation (minutes)
1-310	N/A	60	30
311-560	2*	60	30



Installation

- Mild steel angle brackets 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 10% 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.

CAVITY BARRIER IN RIGID FLOOR

Products

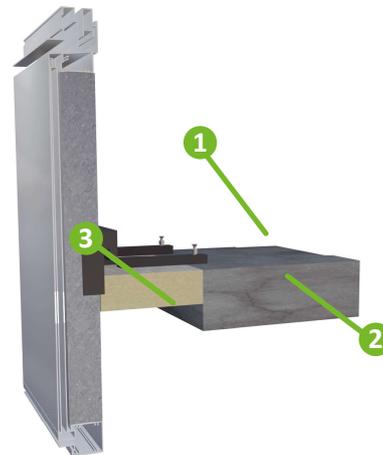
1. Paraflam®
2. Silver foil tape
3. Steel brackets

Supporting Construction

Block, concrete, aerated concrete, masonry, concrete cladding $\geq 150\text{mm}$

Fixing Detail Reference Table

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



Joint Width (mm)	Fixing Detail	Integrity (minutes)	Insulation (minutes)
1-150	N/A	120	60
151-350	1*	60	30
351-560	2*	60	30

Installation

- Mild steel angle brackets 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 10% 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.

CAVITY BARRIER IN RIGID WALL AND FLOOR

Products

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

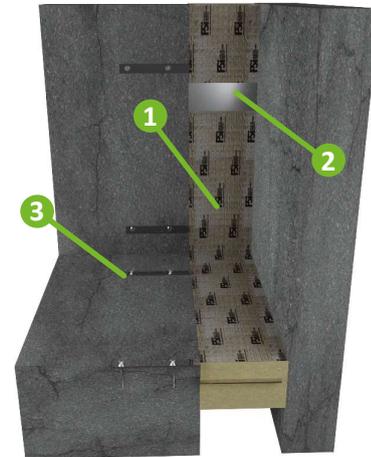
Supporting Construction

Block, concrete, aerated concrete, masonry walls and floors $\geq 150\text{mm}$

Fixing Detail Reference Table

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

Joint Width (mm)	Fixing Detail	Integrity (minutes)	Insulation (minutes)
1-590	3*	120	60



Installation

- Mild steel angle brackets 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 10% 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.

BARRIER AT HEAD OF WALL

Products

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

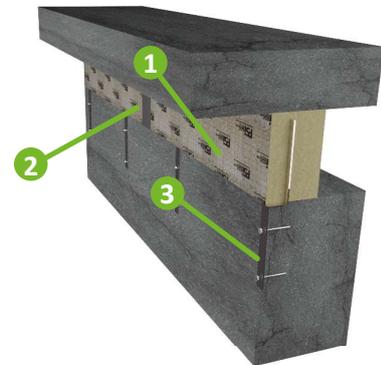
Supporting Construction

Block, concrete, aerated concrete, masonry, cement particle board ≥150mm

Fixing Detail Reference Table

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

Joint Width (mm)	Fixing Detail	Integrity (minutes)	Insulation (minutes)
1-200	1*	60	60



Installation

- Mild steel angle brackets 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 10% 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.