

# FireBlox™ *Plus*

Non-Ventilated Cavity Barrier

Technical Datasheet



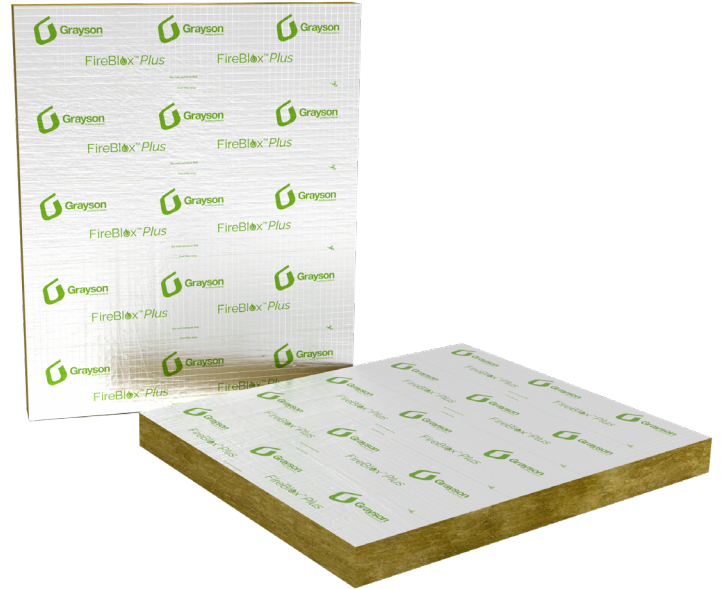
## Technical Attributes:

- Fully tested system; including, brackets, fixings & tape
- Bracket tolerance to allow +/- 20mm for installation flexibility
- Tested with multiple SFS build-ups
- Approved for direct fixing to the sheathing board
- Tested with a steel lintel interface
- Face fixed solution around reveals from 20-70mm



## Product Overview:

**FireBlox™ Plus** is a non-ventilated cavity barrier made from plain stone mineral wool, suitable for use within external wall cavities of up to 450mm, for both masonry to masonry and SFS to masonry, including masonry support bracket and balcony stub details. Supplied as a complete slab (1200mm wide x 1000mm long x 100mm deep) and cut on site to suit the cavity size allowing for required compression, foil faced as standard to stop the spread of cold smoke. Fire rated for up to 120 minutes; EI120, for full test data see page 4.



## Testing & Standards:

- ✓ **FireBlox™ Plus** has been tested to BS EN 1366-4:2021 and holds third party certification with Certifire.
- ✓ Classification Reaction to Fire EN 13501-1 and Fire Resistance EN 13501-2.
- ✓ Tested for vertical and horizontal applications in masonry to masonry and SFS to masonry, incorporating Polyethylene DPC and Interface Sealing Membrane.
- ✓ Fully tested system including FB brackets and fixings.

## Components & Storage:

- **FireBlox™ Plus** non ventilated cavity barrier slab
- FB brackets
- FB-C, FB-S or FBB stainless steel screws
- Foil tape
- Drill/drill bits to suit fixings
- Saw/knife
- Measuring tape
- To be stored in a dry location

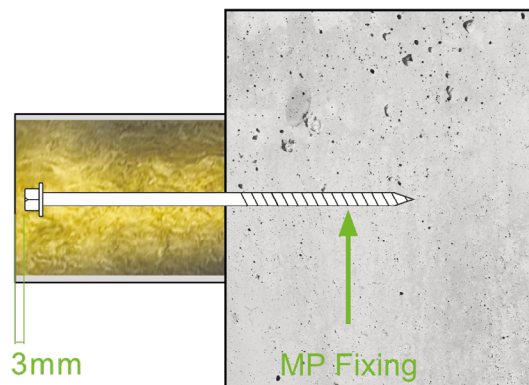


Approved Product  
CF10255



## Installation Guide:

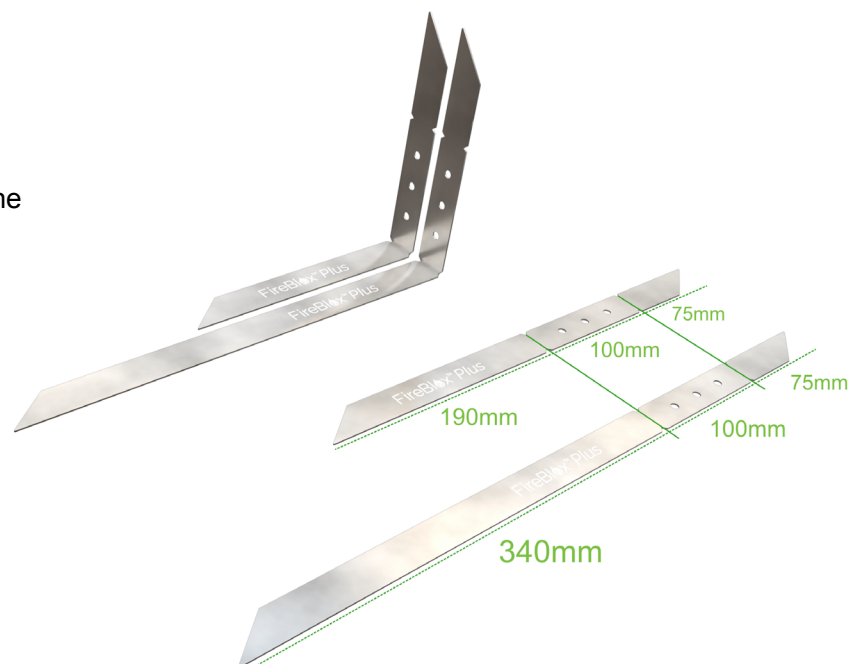
- **FireBlox™ Plus** is supplied in slabs of 1200mm wide x 1000mm long x 100mm deep and should be cut to size on site to suit the cavity width allowing for required compression. Joints must be abutted tightly and sealed with 100mm aluminium foil tape.
- Two FB brackets to be used per 1 metre length fixed at a maximum distance of 250mm from each end, for lengths less than 500mm one bracket can be used, dimensional tolerance for bracket installation is +/- 20mm.
- Minimum one stainless steel fixing per bracket.
- FB brackets must penetrate not less than  $\frac{3}{4}$  of the cavity width fixed through the middle of the barrier depth.
- **FireBlox™ Plus** can be face fixed in cavity widths between 20mm and 70mm with a 3mm compression. Fix using Grayson Multi-Purpose (MP) stainless steel screws, suitable for the width of the cavity barrier and substrate. The screw head must fully penetrate the face of the cavity barrier by at least 3mm and fixed at a maximum of 500mm centres.



## FB Brackets:

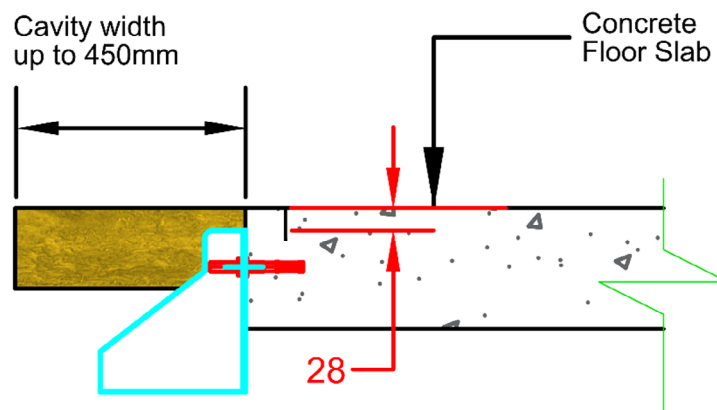
FB brackets are supplied in two sizes and can be snipped if required. Bend the brackets at the indented point and insert through the middle of the barrier depth.

- 'Small' for up to 250mm cavities
- 'Medium' for 251 - 450mm cavities



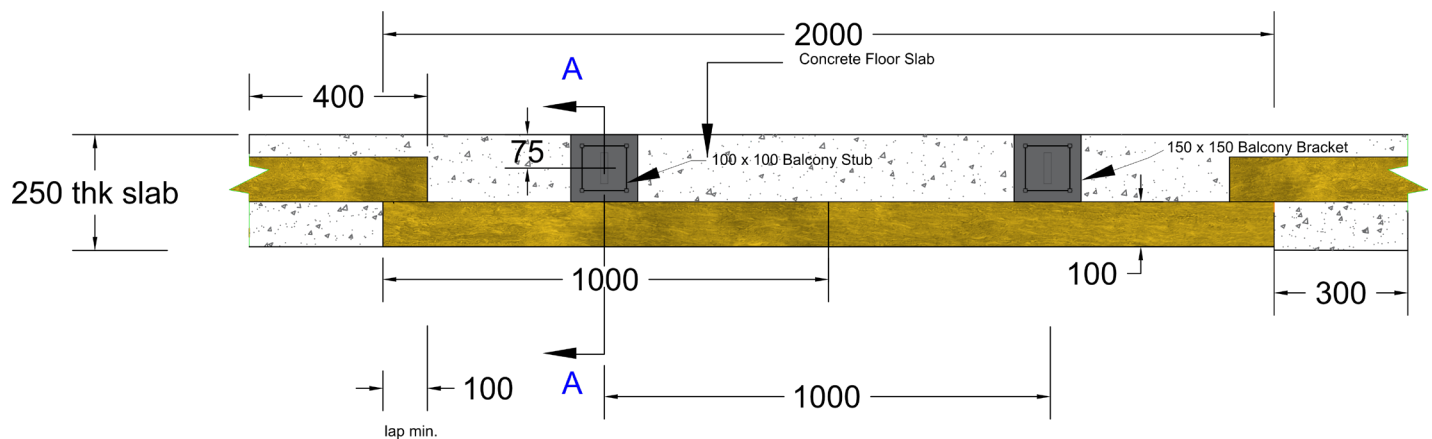
## Masonry Support Bracket Detail:

- Tested to maximum cavity size of 450mm.
- Masonry support brackets can be installed at either 10mm or 28mm from the top of the floor slab.
- **FireBlox™ Plus** can be notched by either 90% or 72% of the total 100mm thickness dependent on fire classification required (see test data on page 4). Fix back to the top of the floor slab as per the installation guide, ensuring joints are abutted tightly and taped.



## Balcony Stub Detail:

- **FireBlox™ Plus** has been tested as a continuous barrier with an overlap of a minimum of 100mm as per the detail below.
- Fix flush with the bottom of the balcony stub as per the installation guide, ensuring joints are abutted tightly and taped.



**FireBlox™ Plus Test Data**, Third Party Certified by Certifire approved product CF10255

\*All testing incorporated DPC and 5mm compression, SFS was also tested with Interface Sealing Membrane.

**Vertical Installation Masonry to Masonry**

Cavity Width (mm)	Compression	Integrity (E)	Insulation (I)	Classification
20 - 200	5mm	120	120	120
201 - 450	5mm	120	60	60

**Horizontal Installation Masonry to Masonry**

Cavity Width (mm)	Compression	Integrity (E)	Insulation (I)	Classification
20 - 200	5mm	120	120	120
201 - 250	5mm	120	90	90
251 - 450	5mm	120	60	60

**Vertical Installation SFS to Masonry**

Cavity Width (mm)	Compression	Integrity (E)	Insulation (I)	Classification
20 - 250	5mm	120	90	90
251 - 450	5mm	120	60	60

**Horizontal Installation SFS to Masonry**

Cavity Width (mm)	Compression	Integrity (E)	Insulation (I)	Classification
20 - 250	5mm	120	120	120
251 - 450	5mm	120	60	60

**Masonry Support Bracket**

Cavity Width (mm)	Compression	Integrity (E)	Insulation (I)	Classification
200	5mm	120	20	20 *notched at 90mm
200	5mm	120	120	120 *notched at 72mm
201 - 450	5mm	120	60	60 *notched at 72mm

**Balcony Stub**

Cavity Width (mm)	Compression	Integrity (E)	Insulation (I)	Classification
200	5mm	120	30	30

**Testing with 0mm compression**

**Vertical Installation Masonry to Masonry**

Cavity Width (mm)	Compression	Integrity (E)	Insulation (I)	Classification
20 - 200	0mm	120	90	90
201 - 450	0mm	120	60	60

**Vertical Installation SFS to Masonry**

Cavity Width (mm)	Compression	Integrity (E)	Insulation (I)	Classification
20 - 250	0mm	120	90	90
251 - 450	0mm	120	60	60

**SFS Build Up:**

2 layers of 12.5mm Gyprock Fireline, 0.5mm Galvanised mild steel formed channel filled with 100mm Rockwool full fill insulation, 1 layer of 12.5mm Siniat Weather Defence board and 75mm Rockwool Rainscreen Duo Slab.

Additional SFS testing has been carried out using various build ups, including fixing direct to the sheathing board.

**FireBlox™ Plus** has also been tested with an interfacing steel lintel.

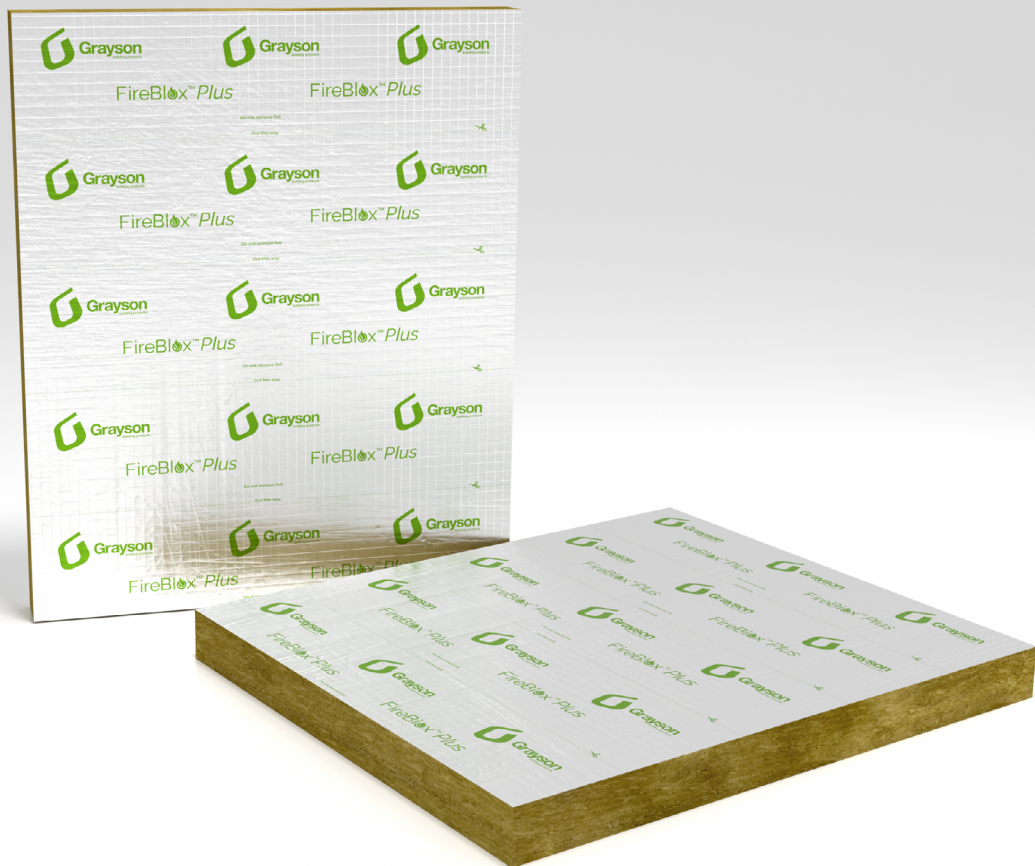
**Environment:**

Our product is fully recyclable and is made from 20-26% recycled materials. Produced from renewable raw materials with Zero ODP (Ozone Depletion Potential).

**Health & Safety:**

Always wear correct PPE and ensure care is taken when handling to avoid irritation to the skin. Should irritation occur, wash with cool water. Follow manual handling guidelines when lifting.

For technical assistance please call **01709 786100**.



# FireBlox™ *Plus*

## Non-Ventilated Cavity Barrier

Grayson warrants the materials it produces will conform to Grayson specifications and approved drawings where applicable. It is entirely the customer's responsibility to make the final product choice and satisfy themselves with the product's suitability for the intended application, carrying out testing where required. For construction projects, all products which the customer intends to use on a particular project must be approved in writing by the customer's building designer, system designer, or design control professional, to ensure compliance with the latest regulations.

The information contained in this data sheet is presented in good faith. Grayson makes passive fire protection product suggestions based solely upon and limited to the information made available. Grayson possesses knowledge of fire test data and offers manufacturers installation advice. Within reason, Grayson is skilled at offering opinions concerning the installations in question, and can comment on interfaces with other construction materials, but this is not a recommendation or decision. Decisions on overall building fire strategy are not made by Grayson. Grayson products have been tested for a wide range of construction types, and they must be only used in accordance with Grayson test evidence. Each specific Grayson product must be installed into a construction that matches the corresponding test report. Grayson product performance requires safe and proper handling and correct installation. Grayson can provide the relevant fire test evidence on request.

