FSi Promat


# Cavity Barrier Installation Guide



etex inspiring ways of living

# Who are FSi Promat?

- The Largest Manufacturer of Fire Stopping Products in the UK
- Part of the Etex Group since 2020
- >120 Employees
- >23 years Expertise in fire stopping
- Measham, Leicestershire | Head Office & Manufacturing
- Grays, Essex | Customer Service & Warehouse

# Silverliner® OSCB

*Open State Cavity Barriers*

# Silverliner® OSCB

*Open State Cavity Barriers*

OSCB 1

OSCB 2

OSCB 3

OSCB 4

OSCB 5

**Key Features**

- Colour Coded
- Void Ranges 50mm – 550mm
- Tested to TGD19 standard
- Dry-Fit solution – No curing time
- Fast Installation
- 30, 60, 90, 120 mins fire performance
- 3rd Party Certification – IFC Certification
- Non-Combustible Core
- Custom cut to order
- Assumed working life of 25 years

# Silverliner® OSCB INSTALLATION

*Open State Cavity Barriers*

## LEAVE NO GAPS

- Joints must have tight joints fitting flush to each other

## SILVER FOIL TAPE

- Required between all abutting pieces (ensuring not to tape over the intumescent strip)
- No requirement to tape to the substrate i.e. CP board/slab edge

*aside from Silverliner OSCB which is made to order

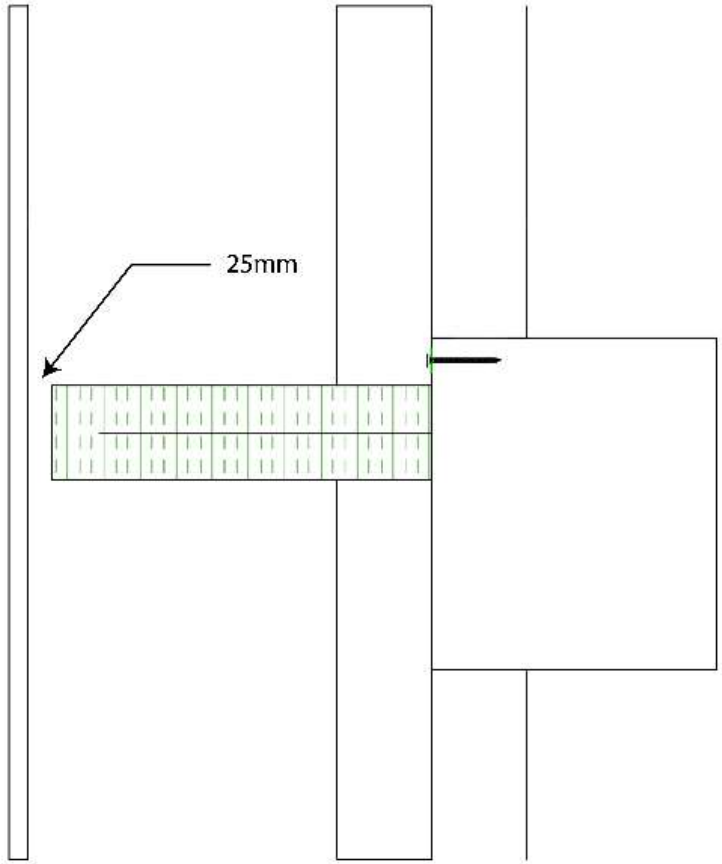
# Silverliner® OSCB INSTALLATION

*Open State Cavity Barriers*

## ADDITIONAL POINTS

- OSCB must be **fixed directly to the Substrate** - cutting through any thermal wall insulation

- OSCB must be correct width for the cavity *(Cavity Width + Air Gap = Void)*

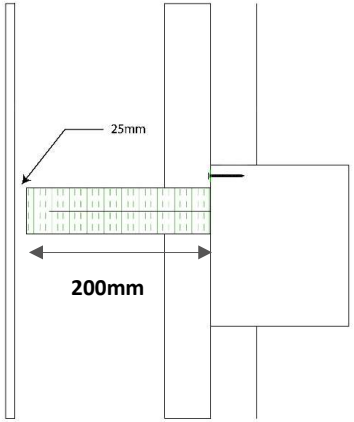


# Silverliner® OSCB INSTALLATION

*Open State Cavity Barriers*

## BRACKETS

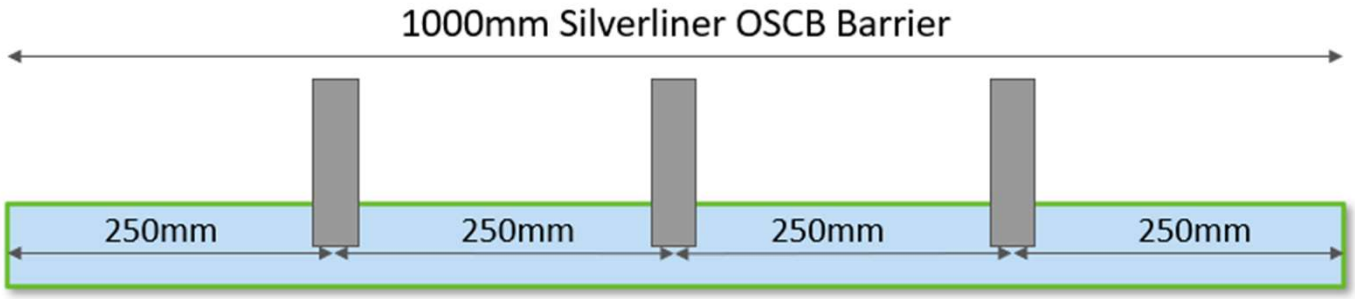
- Install mid depth: Bracket to span **minimum 75%**
- Example: Cavity Barrier Width 200mm x 0.75 = 150mm



# Silverliner® OSCB INSTALLATION

*Open State Cavity Barriers*

## BRACKETS

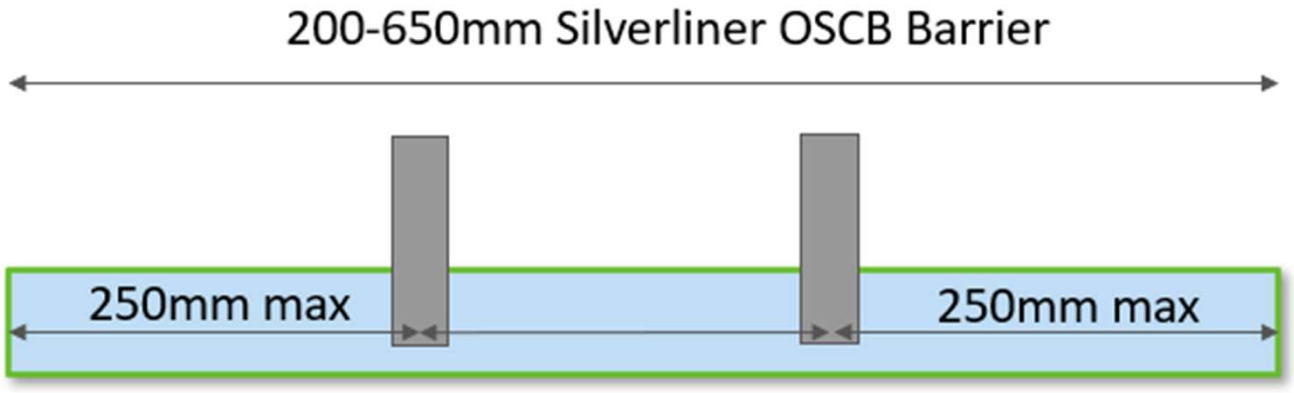



- 3 brackets installed at 250mm centres - per 1000mm OSCB
- FSi 1.5mm steel brackets must be fixed to substrate - using suitable non-combustible fixings
  - *Non FSi brackets are allowable (if technical approval granted)*
- Brackets must be bent to a 90-degree angle:
  - *Recommend using Mole grips/vice etc*

# Silverliner® OSCB INSTALLATION

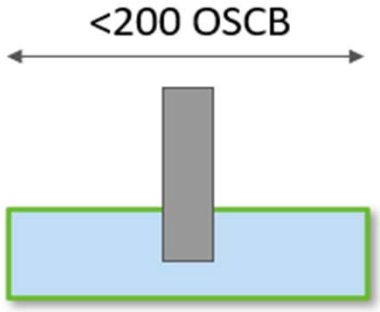
*Open State Cavity Barriers*

## BRACKETS




Any cut lengths between **200mm-650mm** - require **minimum 2 brackets**

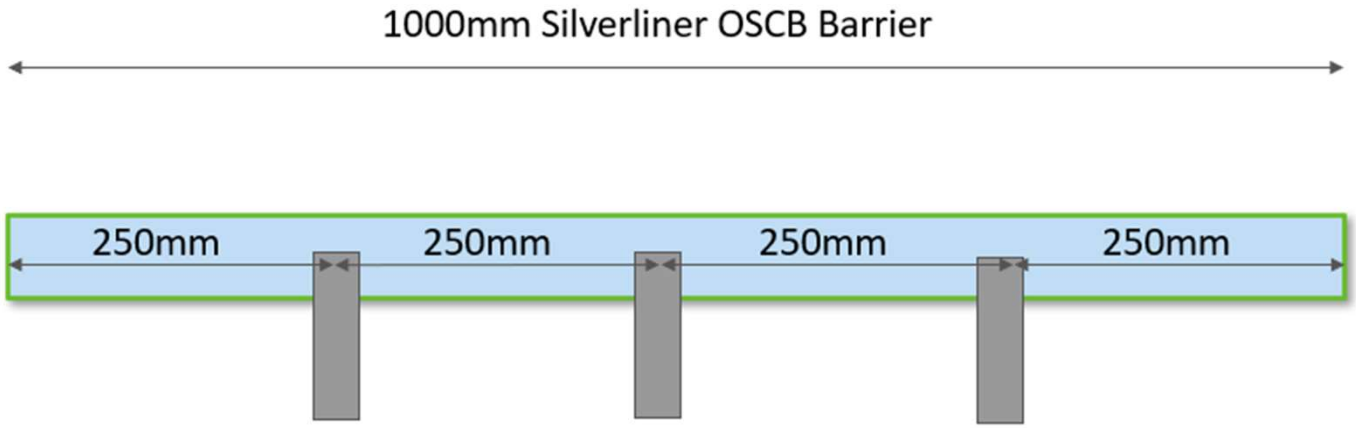
Cut lengths **<200mm require 1 bracket** in the centre of the barrier



# Silverliner® OSCB INSTALLATION

*Open State Cavity Barriers*

## BRACKETS




- Brackets can be installed in alternative orientation/underside of the barrier, where it is not possible to fix in the usual orientation
- If this is the case, brackets must be protected by non-combustible insulation to ensure they are protected

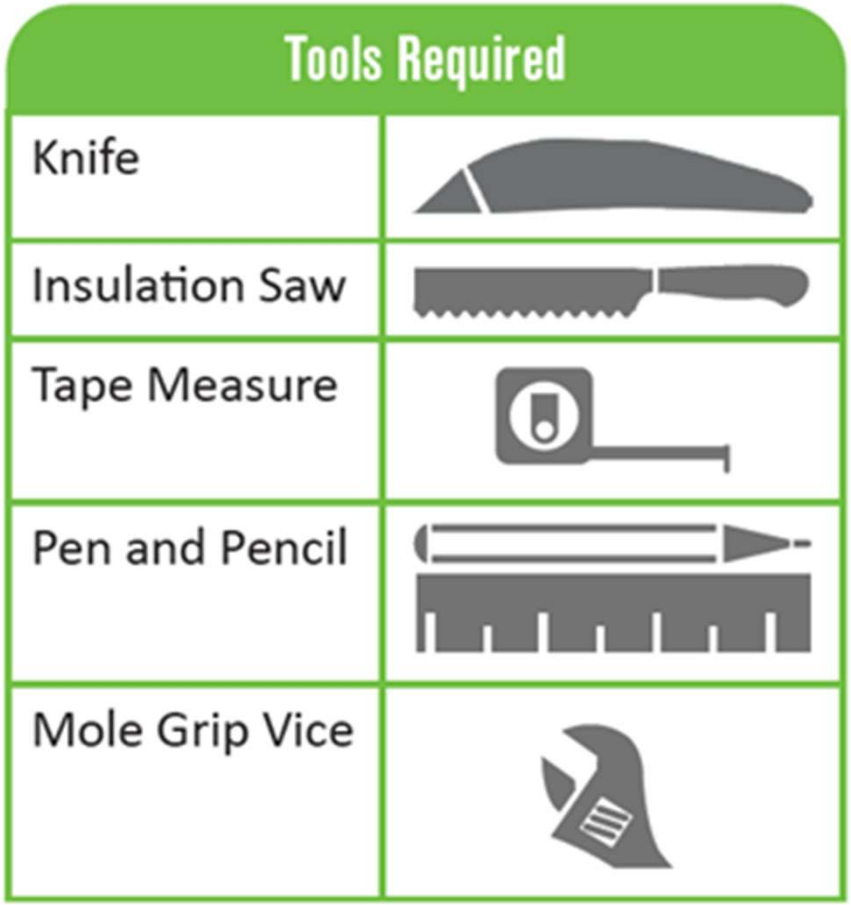
# Silverliner® OSCB INSTALLATION

*Open State Cavity Barriers*

## Other Key Points

- **MITRE JOINTS** All corners should have mitre joints with foil applied to top & bottom of mitre joints
- **PIGTAIL SCREW** Each cut piece of OSCB must have 1no pigtail screw through the face of the intumescent

*Each 1m OSCB has 3no pre-installed pigtail screws*

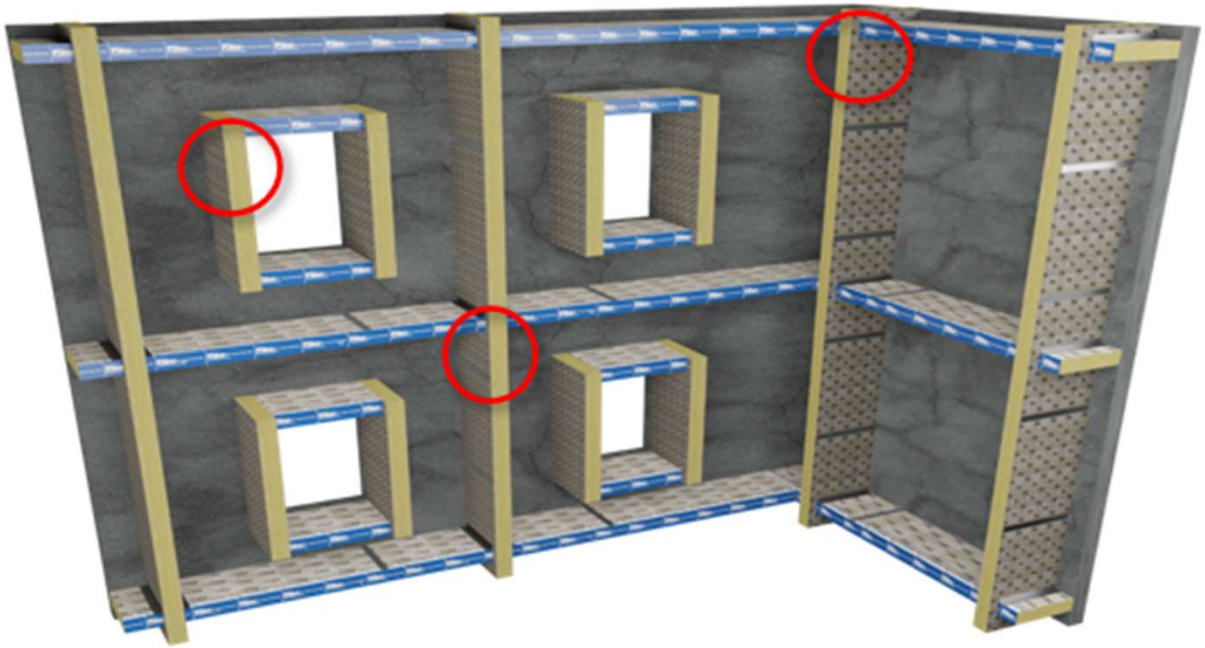


# Silverliner® OSCB INSTALLATION

*Open State Cavity Barriers*

## Other Key Points

- OSCB is installed abutting FSi  Vertical Paraflam® Barriers where required
- Vertical Barrier must take precedence (horizontal barriers abutting the side of the vertical) if the vertical barrier is on a main compartment line.



*The above render of typical cavity barrier locations is for guidance purposes only. Specific barrier specifications and locations will be determined by the relevant project fire strategy and fire engineers on a project by project basis*

# Silverliner® OSCB INSTALLATION RECAP

- CORRECT COLOUR CAVITY BARRIER
- DIRECT TO SUBSTRATE
- CUT SECTIONS – 200-650mm = 2no BRACKETS
- BRACKETS INSTALLED MID-DEPTH
- INSTALLED ABUTTING VERTICAL BARRIERS
- HORIZONTAL TO TAKE PRECEDENT
- CORRECT WIDTH FOR THE CAVITY
- 3no BRACKETS @25mm CENTRES (per 1m)
- NON-COMBUSTIBLE FIXINGS
- CUT SECTIONS <200mm = 1no BRACKET
- BRACKETS TO SPAN MIN 75% OF BARRIER
- ALL JOINTS SEALED WITH SILVER FOIL TAPE

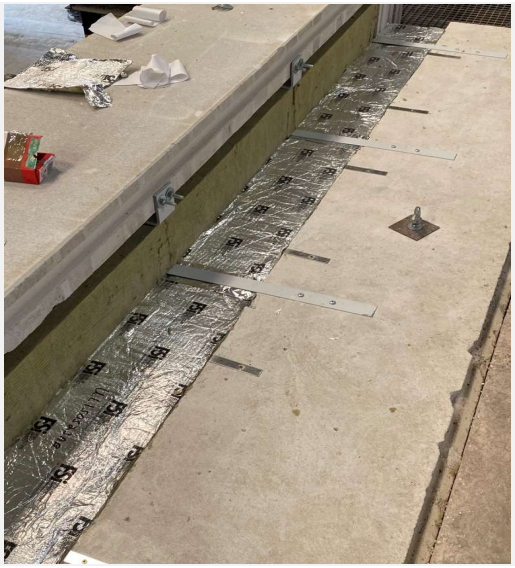
# Paraflam®

*Closed State Cavity Barriers*

# Paraflam INSTALLATION

*Closed State Cavity Barriers*

- Typically used as a vertical Cavity Barrier
- Full Boards or Pre-Cut to suit
- Depth dependant on fire performance required
- Allow for compression fit



**Paraflam Full Boards (1.2m x 1.0m)**

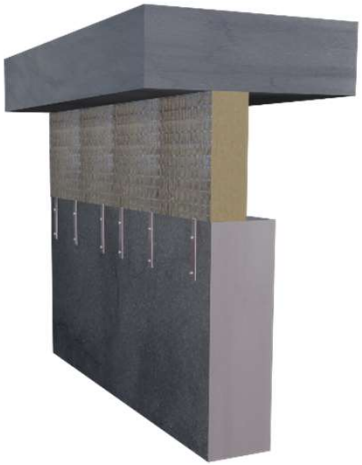
1. 1200mm x 1000mm x 75mm (30/30 EI)
2. 1200mm x 1000mm x 100mm (60/60 EI)
3. 1200mm x 1000mm x 120mm (120/120 EI)

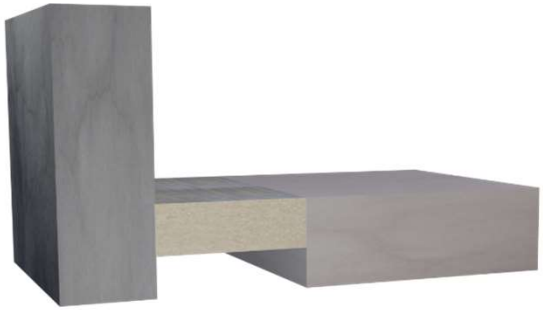
# Paraflam INSTALLATION

*Closed State Cavity Barriers*

## INSTALLED WITH COMPRESSION FIT

- Voids 451 – 590mm
  - Min 10mm Compression
- Voids 251 – 450mm
  - Min 5mm Compression
- Voids up to 250mm
  - Min 1-3mm Compression





# Paraflam INSTALLATION

*Closed State Cavity Barriers*

## BRACKETS

- Installed Mid-Depth of Paraflam
- Ensure the bracket spans Min 50% of Cavity Barrier
    - *EG: Cavity Barrier width x 0.5 | 200mm Cavity/Void – 205mm x 0.5 = 102.5mm*
- Must be fixed to substrate - using suitable non-combustible fixings
- Brackets must be bent to a 90-degree angle: Using Mole grips/vice

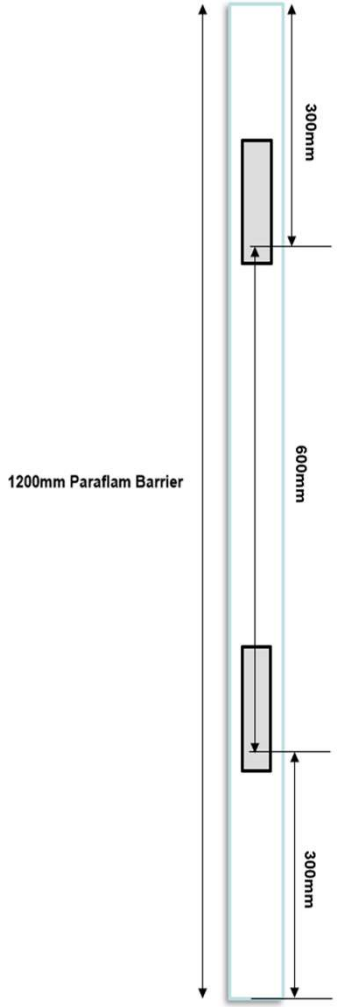
# Paraflam INSTALLATION

*Closed State Cavity Barriers*

## BRACKETS

Two methods of Installation (1):


1. Brackets are fixed to substrate



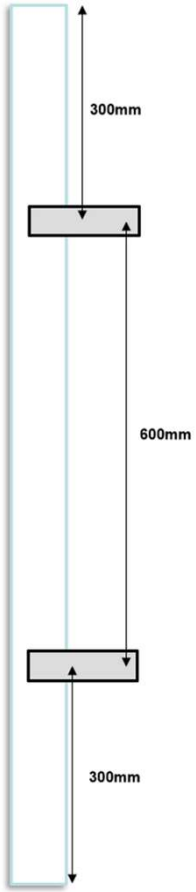

2. Barrier is impaled onto pre-fixed brackets

# Paraflam INSTALLATION

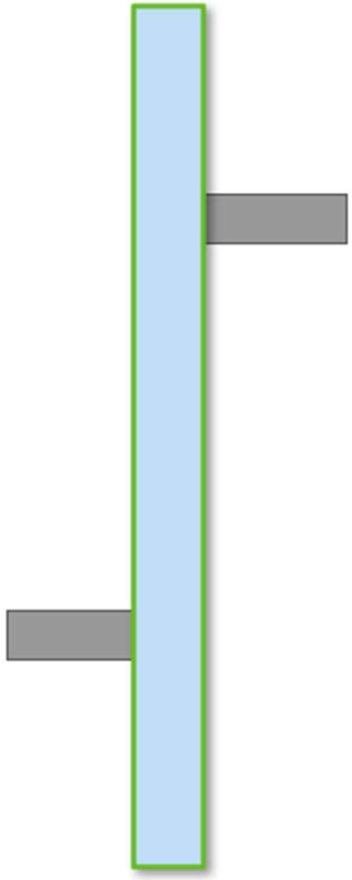
*Closed State Cavity Barriers*

## BRACKETS

Two methods of Installation (2):




1. Brackets are placed into barrier at 90-degree angle & mid thickness



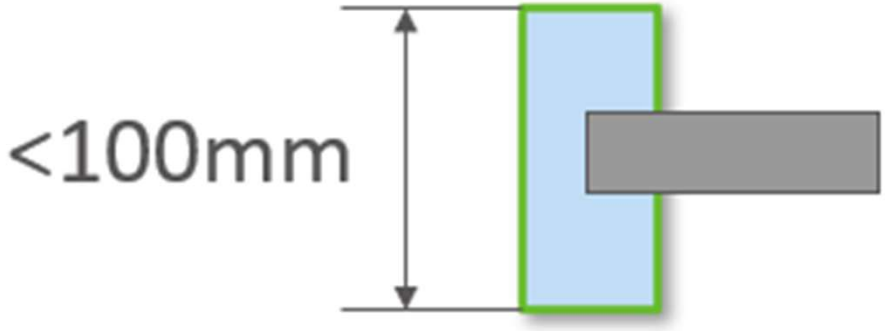
2. Barrier is offered up to substrate and fixed into place

# Paraflam INSTALLATION

*Closed State Cavity Barriers*

## BRACKETS

- Any single piece up to 50mm no bracket required
- Any single small piece/section of Paraflam® up to 51mm to 599mm = **1 bracket**
- 600 and above up to 1200mm = **min 2 brackets**
- Brackets installed to substrate using non-combustible fixings



# Paraflam INSTALLATION

*Closed State Cavity Barriers*

## Other Key Points

### JUNCTIONS / JOINTS & TAPING

- Vertical Paraflam barriers to take precedence (vertical barriers often installed first)
- All joints must be fitted flush against each other, leaving no gaps
- Tape all joints/junctions – including horizontal/vertical joints
- Maintain a smoke seal, ensuring all abutting edges are sealed

### NOTCHING

- Façade Brackets may intersect the Cavity Barriers
- Paraflam should be tightly notched around the bracket
- Utilise off-cuts to pack any gaps using sealant & tape

# QA Checking

# QA Checking

**What do we need?**

To provide a written report, we need the below, accompanied by supporting photographic evidence.

Please complete the following information

1. Project Name: ……
2. Project Address: ……
3. Sub-Contractor Name: ……
4. Main Contractor: ……
5. Contact name: ……
6. Email: ……
7. Tel: ……
8. FSi Project Product (s) ……

***If this is not completed correctly this may result in a delayed response***

# Thank you