



# FlameBlok

One hour fire-rated cavity closer



**60+**  
**minutes**  
of fire integrity and  
insulation achievable  
with FlameBlok

Combining a cavity fire barrier and cavity closer former in **one** product



## Why specify a fire-rated cavity closer?



Cavity walls provide a continuous hidden path around the building, potentially spreading fire from one part of the structure to another without being detected.

Walls often form, or shroud, the critical structure of building. A fire established within this structure could lead to severe damage to the structural integrity of the whole building, leading to collapse.

Cavity barriers prevent the spread of fire by interrupting the cavity with a fire resistant material.

Part B of the Building Regulations (for both residential construction and non-dwellings) requires the use of cavity fire barriers around openings in all timber or steel frame cavity walls and in masonry walls where a particular risk has been identified by the building inspector.

A cavity fire barrier must span the cavity and be securely fixed. It must also pass a fire test proving its capability to maintain integrity in an intense fire and restrict heat being conducted from the fire to other parts of the structure.

### Why choose a cavity closer?

- Provides a damp proof course around the opening
- Simplifies brickwork – no brick returns needed
- Provides thermal break:
  - Stops cold bridging which can cause condensation to form inside an opening damaging internal decoration and plaster work
  - Improves heat loss at the window junction, reducing CO<sup>2</sup> emissions
  - Meets Accredited Construction Details regulation designed to improve the heat loss at junctions

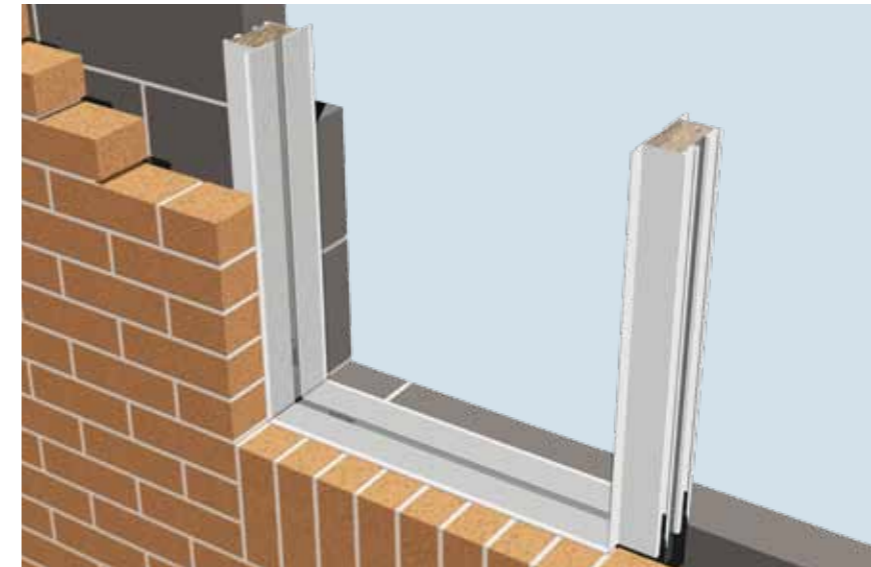
### Why choose a former?

- Provides a template for brickwork to follow ensuring sizes are correct and saving on dummy carpentry
- Ensures the window manufacturer can produce to correct sizes without repeated surveying - saving time and money by reducing re-work or snagging



### Cavalok turns waste into energy saving products

Our cavity closers are uniquely manufactured from 100% post-consumer recycled PVC-U. Waste material which might otherwise go to landfill, is re-processed into high-quality, recycled PVC-U. This makes Cavalok cavity closers the ideal sustainable product - produced from sustainable material and used to save energy over the lifetime of a building.



### FlameBlok Scenario One:

FlameBlok in brick / block construction.  
General wall insulation not shown.

### Fire test results:

**60+**  
minutes fire integrity

**60+**  
minutes fire insulation

## The Cavalok **FlameBlok** solution

Combining a cavity fire barrier *and* cavity closer former in **one** product



### FlameBlok Scenario Two

FlameBlok in timber frame construction with check reveal brickwork at jambs and no flange at sill to accommodate differential movement.

**Fire test: 60 minutes integrity  
45 minutes insulation**

### Features and benefits:

- Cavity barrier to Part B, Table A1 of building regulations
- Reduces fire risk during construction
- Superior thermal performance to other traditional methods of closing cavities, such as battens in timber frame or returned brickwork
- Saves labour on site – just one product closes the cavity and fire protects

### Only with FlameBlok:

- FlameBlok creates a continuous fire-rated ring around the opening
- Rigorously tested for 50-150mm cavity sizes
- Manufactured from 100% post-consumer recycled PVC-U for minimum environmental impact
- Simple, robust design like all Cavalok products
- Unique custom foil wrapped product makes mineral wool product easier to handle and reduces spread of flame
- Compatible with existing Cavalok components to keep Cavalok principle of a 'no fuss' product system

### The testing:

- Full and rigorous testing carried out by Chiltern International
- Cavity sizes up to 150mm tested
- 60 minute integrity and 45 minute insulation in Timber Frame
- 90 minute integrity and 90 minute insulation in Masonry
- Check reveal and flush reveal construction details tested
- Tested to BS EN 1363 as demanded by building regulations
- Minimal, 'worst case' construction tested to give confidence that the product performs in reality
- In testing timber frame failure occurs before product failure
- Simulates flashover point of fire with 1000°C temperatures sustained for an hour or more

## FlameBlok data sheet

<b>Product description</b>	One hour fire-rated, fully insulated cavity closer system																		
<b>Application</b>	<ul style="list-style-type: none"> <li>• Closes cavities at flush and check reveal openings in all cavity wall constructions.</li> <li>• Forms openings in brickwork providing thermal break, cavity fire barrier and dpc</li> </ul>																		
<b>Product Codes</b>	<table border="0"> <thead> <tr> <th>Part Codes</th> <th>Cavity width</th> <th>Pack size</th> </tr> </thead> <tbody> <tr> <td>FLB050HOR48</td> <td>50mm</td> <td>30 x 4.8m</td> </tr> <tr> <td>FLB075HOR</td> <td>75mm</td> <td>6 x 3.6m</td> </tr> <tr> <td>FLB100HOR48</td> <td>100mm</td> <td>30 x 4.8m</td> </tr> <tr> <td>FLB125HOR48</td> <td>125mm</td> <td>30 x 4.8m</td> </tr> <tr> <td>FLB150HOR48</td> <td>150mm</td> <td>30 x 4.8m</td> </tr> </tbody> </table>	Part Codes	Cavity width	Pack size	FLB050HOR48	50mm	30 x 4.8m	FLB075HOR	75mm	6 x 3.6m	FLB100HOR48	100mm	30 x 4.8m	FLB125HOR48	125mm	30 x 4.8m	FLB150HOR48	150mm	30 x 4.8m
Part Codes	Cavity width	Pack size																	
FLB050HOR48	50mm	30 x 4.8m																	
FLB075HOR	75mm	6 x 3.6m																	
FLB100HOR48	100mm	30 x 4.8m																	
FLB125HOR48	125mm	30 x 4.8m																	
FLB150HOR48	150mm	30 x 4.8m																	
<b>Variants</b>	Check reveal wall details can be produced by removing a single flange																		
<b>Packaging</b>	Polythene wrapped bundle																		
<b>Frame forming system components</b>	<p>Required for mechanical frame-forming:</p> <p><b>BBMOU</b> BigBlok corner</p> <p><b>FLBFIL</b> FlameBlok corner fillet</p> <p>Required for welded frame-forming: none</p> <p>System components:</p> <p><b>BBTIE</b> Brick ties</p> <p><b>CAVBRBOX</b> Bracing bar</p> <p><b>CAVBOOT14</b> Brace boot</p>																		
<b>Manufacturing details</b>	Full technical manual available																		
<b>Accreditations</b>	BBA certificate																		
<b>Fire Testing</b>	<p>Chiltern International Fire to EN1363 standard</p> <p>Test numbers IF09035 and IF09037</p> <p>60 minute integrity and insulation in masonry construction</p> <p>60 minute integrity and 45 minute insulation in Timber frame construction</p> <p>Check reveal and flush reveal tested</p>																		
<b>Material</b>	Extruded 100% post-consumer recycled PVC-U																		
<b>Colour</b>	White																		
<b>Insulation</b>	<p>60% recycled Knauf Ecosse Mineral wool</p> <p>0.038 W/mK conductivity</p> <p>Zero GWP and Zero ODP</p>																		
<b>Low carbon construction</b>	Provides thermal break at wall openings in compliance with Accredited Construction Details (see below). Can contribute to low U-value construction																		
<b>ACD thermal value*</b>	<p>PASS ✓</p> <p>Minimum Thermal Resistance = 0.77 (m<sup>2</sup>K/W)</p> <p>*Accredited Construction Details (ACD) compliance allows improved value for thermal bridging to be used in SAP/SBEM</p>																		
<b>Safety</b>	COSHH sheets available																		
<b>Installation</b>	<ol style="list-style-type: none"> <li>1 - Place into cavity wall at cill level</li> <li>2 - Prop square and level</li> <li>3 - Complete wall leaf around cavity closer frame, tie in with brick ties</li> <li>4 - Remove bracing, fit door/window, finish</li> </ol>																		

### Components available

