



# Passive Fire Protection for Brickwork

# Whatever Brickwork detail you have; We have a solution for you!

We work with Brickwork contractors and specialist contractors that work solely on brick façades. Brick façades are becoming more and more popular in modern day building due to a recent change in legislation. The advantage of brick is that it is a non-combustible material in façade construction, generally used in high rise residential, commercial (TYPICALLY over 18m, however 11m in Scotland) & residential housing. These facades brickwork tends to be for multi-occupancy dwellings, typically over 18m (11m in Scotland).

- Superior test data
- High Quality
- Quick delivery (3-5 working days)
- Technical support on-hand (fire engineers)
- Works with brickslip mechanisms
- Tested in accordance with EN1366-4 European fire testing standard (latest standard) Unique solutions on the market
- All products are bespoke, made to order and cut to size

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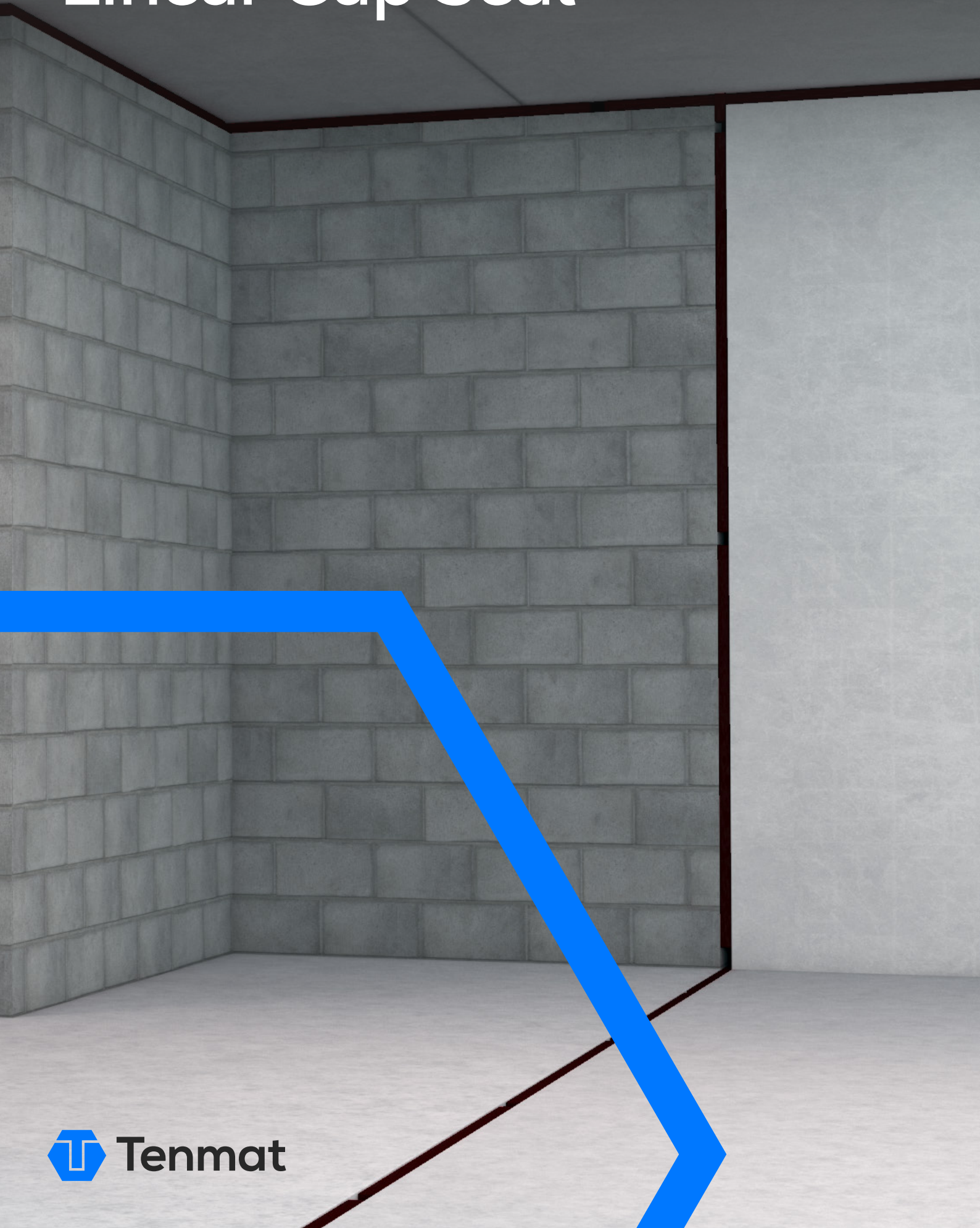
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# Linear Gap Seal



## Product Description



Tenmat's FF108 Linear Gap Seals are fully intumescent linear firestop seals tested to the latest EN Standards. The durable seals are installed under compression and can accept up to 50% movement. They are equally suited to both vertical and horizontal joints. The seals offer up to 4 hour (EI240) fire rating for joints in fire rated walls and floors.

## Product Details

- Up to EI240 Fire Rating
- Compressible up to 50%
- Available to suit gap sizes up to 100mm
- Accepts joint movement
- No additional sealants required

## Sizes

### 1 Seal Required

Seal Size	Min Gap.	Max Gap.	Fire Rating: Floors	Fire Rating: Walls
15 x 15 mm	7.5	13	EI240	EI240
25 x 20mm	13	22	E240/EI30	E240/EI30
40 x 20mm	22	35	E240/EI30	E240/EI30
60 x 45mm	35	50	E240/EI45	E240/EI45
85 x 45mm	50	70	E240/EI45	E240/EI45
120 x 60mm	70	100	E240/EI45	E240/EI45

When installing in gaps/joints in floors, product must be installed 25mm down from the top of the floor slab. When installing in walls, the product must be installed centrally.

### 2 Seals Required

Seal Size	Min Gap.	Max Gap.	Fire Rating: Floors	Fire Rating: Walls
30 x 15 mm	15	25	E240/EI180	E240/EI180
25 x 20mm	13	22	E240/EI180	E240/EI120
40 x 20mm	22	35	E240/EI180	E240/EI120
60 x 40mm	35	50	E240/EI180	E240/EI120
85 x 40mm	50	70	E240/EI180	E240/EI120
120 x 50mm	70	100	E240/EI180	E240/EI180

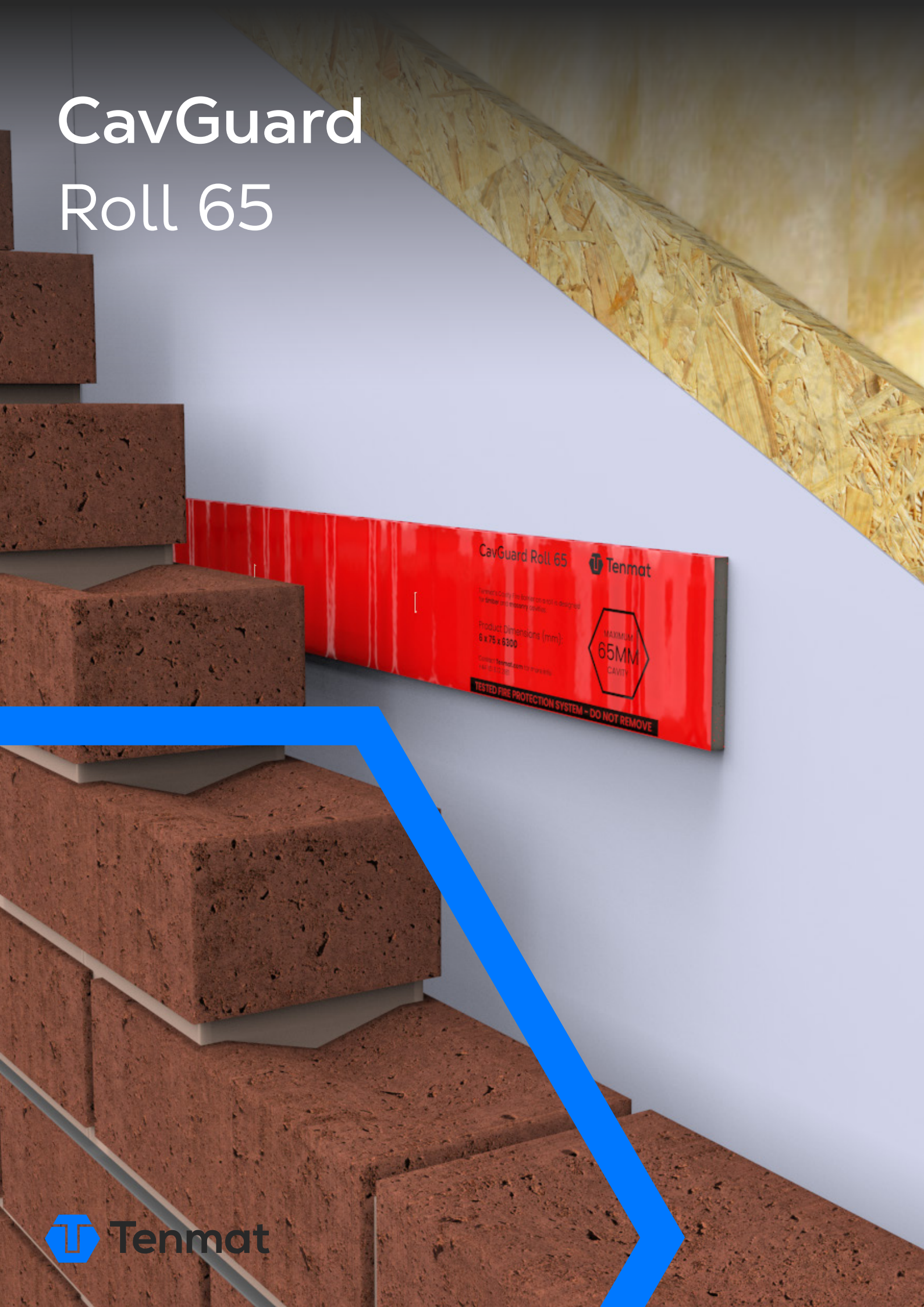
When installing in gaps/joints in floors, top seal must be installed 100mm down from the top of the floor slab with an air gap of 50mm between the top and bottom seal. When installing in walls, the 2no. seals must be installed centrally with a 50mm air gap between the seals. Butt joints in adjacent seals must be offset by minimum 500mm.

In all cases:

- Minimum floor slab depth of 250mm
- Minimum wall thickness of 250mm
- All butt joints must be a very tight friction fit with no gaps



# CavGuard Roll 65



CavGuard Roll 65



Tenmat's cavity fire protection system is designed for timber and masonry cavities.

Product Dimensions (mm):  
6 x 75 x 6300

Go to [tenmat.com](http://tenmat.com) for more info.  
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TESTED FIRE PROTECTION SYSTEM - DO NOT REMOVE

## Product Description



Tenmat's CavGuard Roll 65 is a cavity fire barrier designed to firestop the cavity behind external walls consisting of outer substrates of masonry or brickwork. The low smoke zero halogen highly expansive intumescent material allows ventilation to be maintained in non-fire conditions.

The CavGuard Roll 65 is made from a flexible intumescent material allowing it to be provided in a roll format. With a thickness of only 6mm, the low profile design offers significant space and labour saving over traditional cavity socks, whilst also ensuring the external cavity is left unobstructed and free to ventilate. It is also covered with a protective layer of polythene for ease of handling and to protect it from water.

In the event of a fire the CavGuard Roll 65's intumescent material will expand to close the external wall cavity, providing effective fire resistance, for integrity and insulation for 60 minutes\* depending upon the construction of the external wall cavity. The CavGuard Roll 65 is designed to close off a total cavity of 65mm which allows for building tolerances of up to 15mm (above the typical maximum cavity ventilation requirements of 50mm).

## Product Details

### Technical

- A fire rated product, providing fire resistance performance within external wall cavities, for periods up to 60 minutes\*
- Suitable for masonry and brickwork external substrates only
- Ventilated design – developed to allow maximum ventilation of uninsulated cavities reducing the need for cavity trays or weepholes.
- Suitable for ventilated cavities up to 65mm wide, including building tolerances of up to 15mm (50mm + 15mm)
- Provided in rolls of 6.3m long

### Installation and maintenance

- Flexible and lightweight - designed to be easily and quickly installed
- No maintenance required after installation

## Dimensions

6mm x 75mm x 6,300mm



# CavGuard MSC Plate





## Product Description



Tenmat's CavGuard Masonry Support Cover Plate (MSC) is a fire rated intumescent solution designed to react in a fire situation to seal within and in front of masonry support brackets that penetrate or disrupt cavity fire barrier locations.

The location of masonry support brackets can often result in them fully or partially penetrating cavity fire barrier locations. This can result in untested fire stopping solutions being employed in this location.

If cavity fire barriers and masonry support brackets are installed to fully fill the cavity in this area drainage is lost. In order to reinstate drainage to avoid damp and thermal bridging issues, additional cavity trays and weep vents must be installed in this area causing significant construction time, additional costs and complexity.

Tenmat have developed the CavGuard MSC to work in combination with Tenmat's VFB Plus 'open state' cavity fire barriers to provide an effective cavity fire barrier solution that ensures a continuous cavity barrier line that also maintains drainage in normal conditions.

In a fire situation, the integral high expansion intumescent material in the CavGuard MSC expands to seal the air gap within and in front of the masonry support bracket whilst the 'open state' cavity fire barrier seals the cavity and air gap between the masonry support brackets.

The system has been fire tested to the principles of BS EN 1363-1 and in accordance with ASFP TGD19 guidance.

The CavGuard MSC is to be used in conjunction with the VFB Plus horizontal fire barriers and the Tenmat NVFB vertically to provide a complete cavity fire barrier solution for external brickwork cavities.

## Product Details

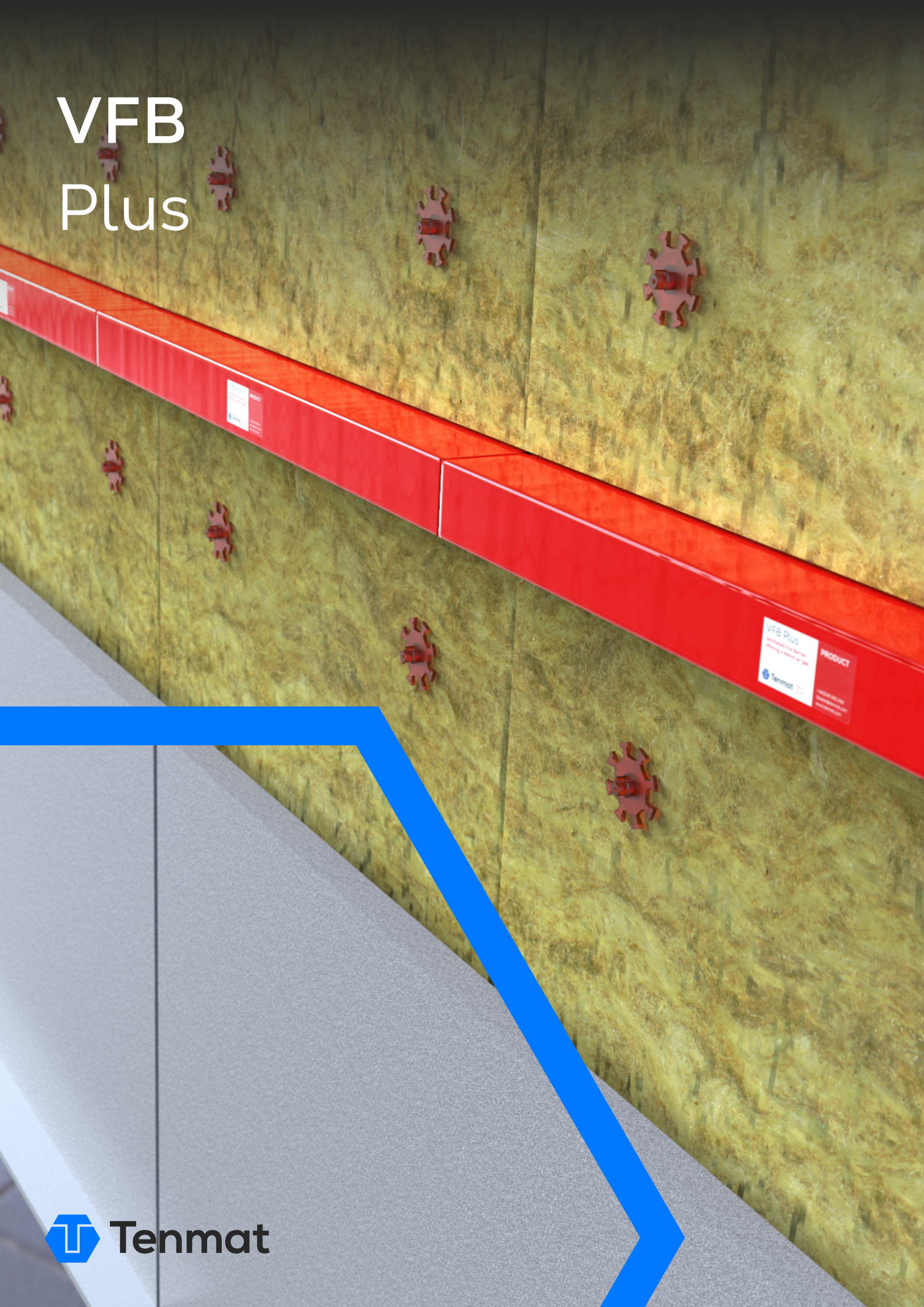
- Fire Testing exceeded 120 minutes to allow for compartmentation continuation
- Leaves Continuous Free Air Space
- Intumescent Material expands to seal air gaps
- Reduces the need for cavity trays
- Ready to Install Solution
- Stainless Steel and Intumescent Construction
- Does not contribute to thermal bridging
- Working Life of 60 years\*
- Patent Pending

## Sizes

Masonry Support to suit cavity size (mm)	Masonry Support Internal Width (mm)	CavGuard MSC Size	Width (mm)	Height (mm)	Depth (mm)	VFB Plus Dimensions
112.5	42	112/42	42	116	84.5	88x75x1000mm
112.5	50	112/50	50	116	84.5	88x75x1000mm



# VFB Plus



VFB Plus  
Innovative Fibre Acoustic  
Paneling & Ceiling Tiles

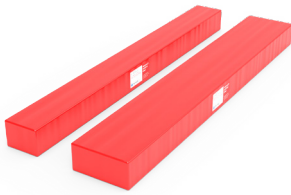
Tenmat

PRODUCT

ACOUSTIC PANELING  
www.tenmat.com



## Product Description



Tenmat's VFB Plus Ventilated Fire Barriers are 'open state' cavity fire barriers for ventilated cavities of up to 450mm.

Each VFB Plus consists of a specially formulated fire rated stone mineral wool section with an integral high expansion intumescent seal fixed to the leading edge.

The VFB Plus then leaves a maximum 44mm air gap to allow for drainage and maintain ventilation in normal use.

In a fire situation the intumescent seal rapidly expands to seal off the air gap and prevent vertical fire spread within the external wall.

The product has undergone extensive fire testing following the principles of BS EN1363-1 and in accordance with ASFP TGD19 (Fire Resistance Test for 'Open-State' Cavity Barriers).

The VFB Plus are mechanically fixed horizontally within ventilated cavities behind the external wall substrate following the fire compartment line.

The VFB Plus are used horizontally and can be installed in conjunction with Tenmat NVFB Non-Ventilated Fire Barriers which provide vertical fire separation along fire compartment party wall lines.

## Product Details

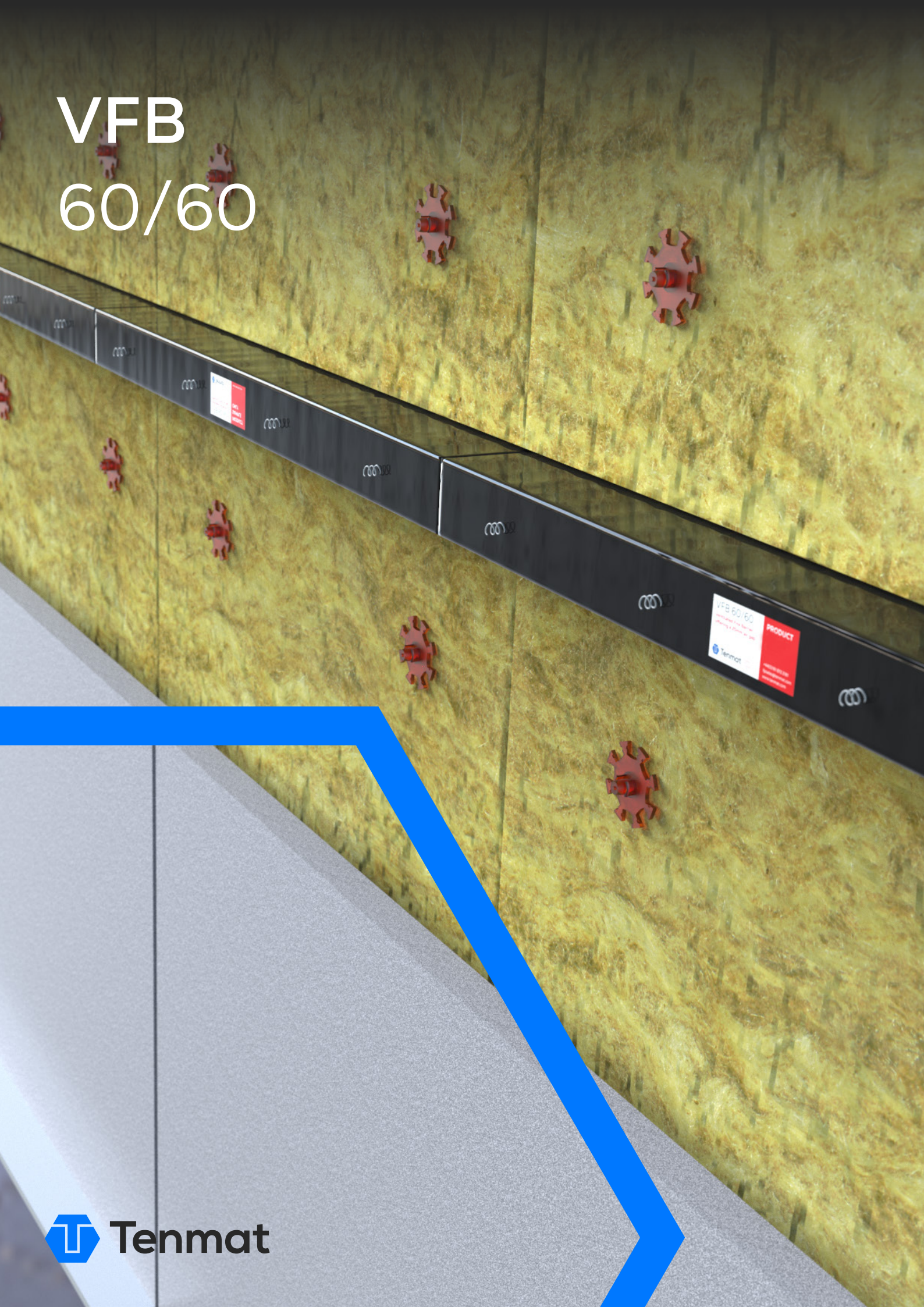
- Typical Fire Ratings of minimum 30 to 60 minutes Integrity and Insulation
- Higher Fire Ratings available dependent on application
- Maintains a 44mm air gap
- Up to 450mm cavities tested
- Standard thickness of 75mm
- Durability and Age Tested
- Fixing brackets included as standard

## Dimensions

Thickness (Total Cavity less 44mm Air Gap) x 75mm x 1000mm

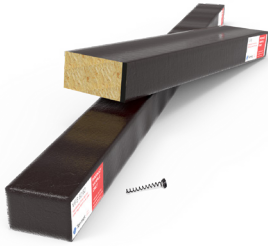


# VFB 60/60





## Product Description



Tenmat's VFB 60/60 Ventilated Fire Barriers are 'open state' cavity fire barriers for ventilated cavities of up to 450mm. Each VFB 60/60 consists of a specially formulated fire rated stone mineral wool section with an integral high expansion intumescent seal fixed to the leading edge.

The VFB 60/60 then leaves a maximum 25mm air gap to allow for drainage and maintain ventilation in normal use. In a fire situation the intumescent seal rapidly expands to seal off the air gap and prevent vertical fire spread within the external wall.

The products have undergone extensive fire testing following the principles of BS EN1363-1 and in accordance with ASFP TGD19 (Fire Resistance Test for 'Open-State' Cavity Barriers).

The VFB 60/60s are mechanically fixed horizontally within ventilated cavities behind the external wall substrate following the fire compartment line. The VFB 60/60s are used horizontally and can be installed in conjunction with Tenmat NVFB Non-Ventilated Fire Barriers which provide vertical fire separation along fire compartment party wall lines.

## Product Details

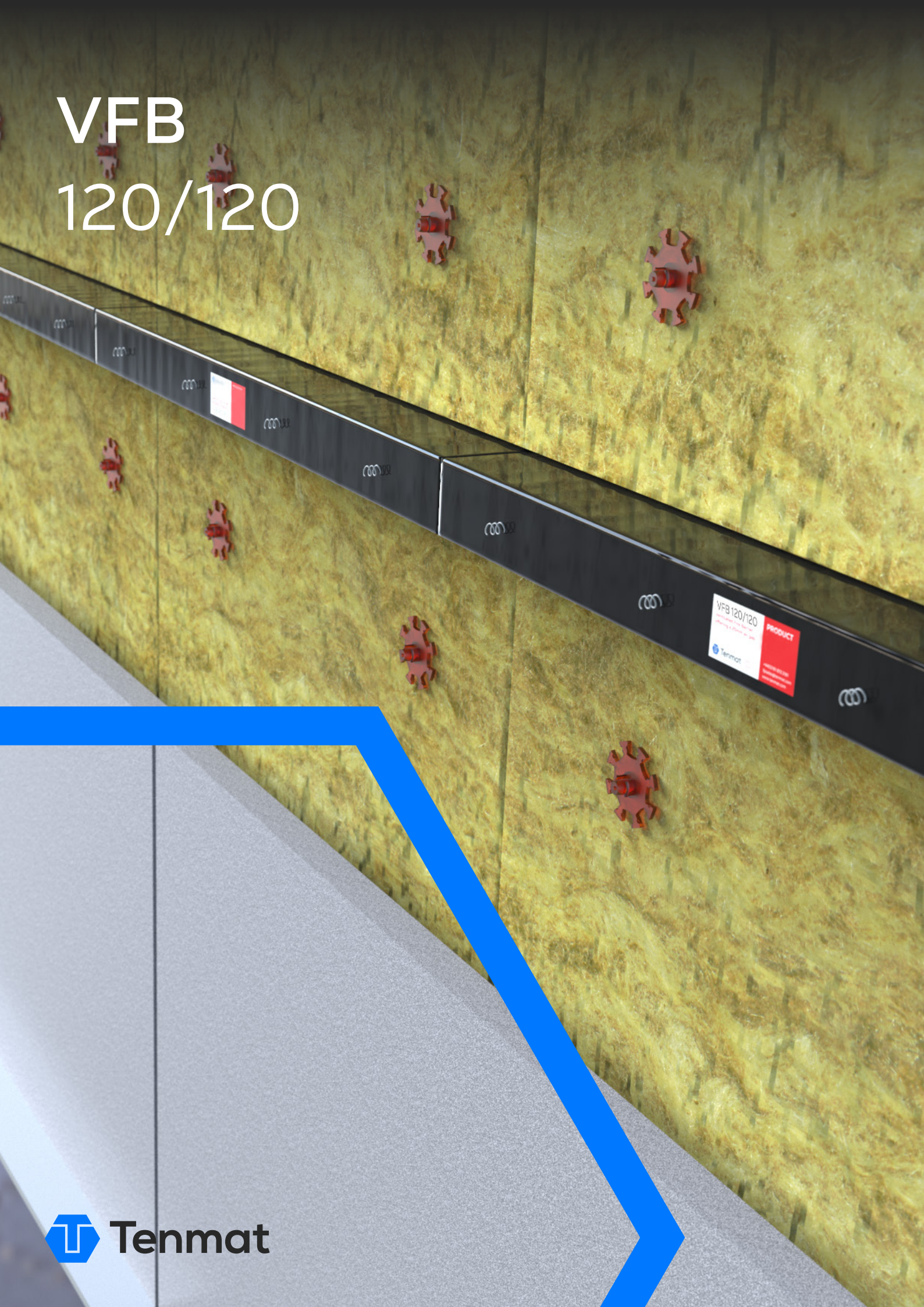
- Typical Fire Ratings of minimum 60 Minutes Integrity and Insulation
- Higher Fire Ratings available dependent on application
- Maintains a 25mm air gap
- Up to 450mm cavities tested
- Standard thickness of 75mm
- Durability and Age Tested
- Fixing brackets included as standard

## Sizes

Thickness (Total Cavity less 25mm Air Gap) x 75mm x 1000mm



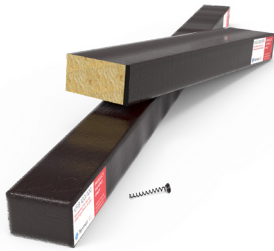
# VFB 120/120



VFB 120/120  
PRODUCT  
Tenmat



## Product Description



Tenmat's VFB 120/120 Ventilated Fire Barriers are 'open state' cavity fire barriers for ventilated cavities of up to 450mm. Each VFB 120/120 consists of a specially formulated fire rated stone mineral wool section with an integral high expansion intumescent seal fixed to the leading edge.

The VFB 120/120 then leaves a maximum 25mm air gap to allow for drainage and maintain ventilation in normal use. In a fire situation the intumescent seal rapidly expands to seal off the air gap and prevent vertical fire spread within the external wall.

The products have undergone extensive fire testing following the principles of BS EN1363-1 and in accordance with ASFP TGD19 (Fire Resistance Test for 'Open-State' Cavity Barriers).

The VFB 120/120s are mechanically fixed horizontally within ventilated cavities behind the external wall substrate following the fire compartment line. The VFB 120/120s are used horizontally and can be installed in conjunction with Tenmat NVFB Non-Ventilated Fire Barriers which provide vertical fire separation along fire compartment party wall lines.

## Product Details

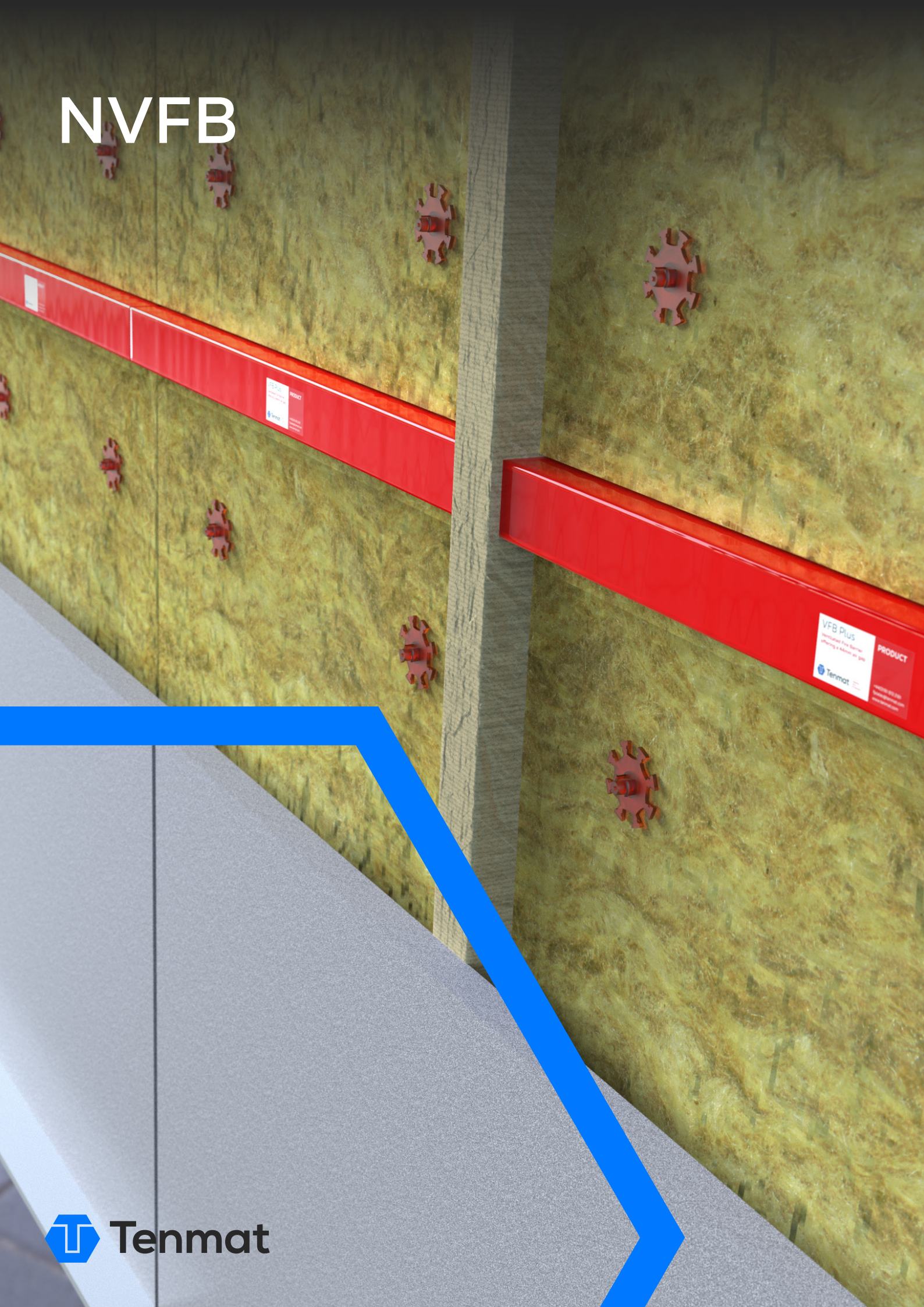
- Fire Ratings of 120 Minutes Integrity and Insulation for up to 300mm cavities
- Fire Ratings of 90 Minutes Integrity and Insulation for 300mm to 450mm cavities
- Maintains a 25mm air gap
- Up to 450mm cavities tested
- Standard thickness of 75mm
- Durability and Age Tested
- Fixing brackets included as standard

## Sizes

Thickness (Total Cavity less 25mm Air Gap) x 75mm x 1000mm



# NVFB



VFB Plus  
Vollwand-Plus-System  
Planung & Aufbau an der Stelle  
PRODUCT  
Tenmat  
www.tenmat.com



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## Product Description



Tenmat's NVFB Non-Ventilated Cavity Fire Barriers, are manufactured from stone mineral wool with an A1 Reaction to Fire Rating and are designed to maintain fire resisting performance to external wall cavities.

The NVFB is capable of providing effective fire resistance, for integrity (E) and insulation (I) for up to 120 minutes (EI120) depending upon the orientation of the NVFB and the construction of the external walls.

Tenmat NVFB is supplied cut to size to suit the cavity width. It is supplied as plain stone mineral wool as standard and can also be supplied with foil encapsulation or with an integral DPC. The NVFB is designed for use within cavities up to 600mm wide and only requires 5mm of compression when fitting.

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## Product Details

- Cavity Fire Barrier for use at: Compartment Floor, Compartment/Party Walls & Around Openings
- Fire Resistance Classification to EN 13501-2
- A1 Reaction to Fire
- Fire Rated up to 120 minutes integrity and insulation (EI120)
- Suitable for cavities up to 600mm
- Suitable for use vertically and horizontally
- Tested for use in conjunction with masonry support brackets
- Tested with SFS Systems with calcium silicate fibre cement boards
- Provided in 1 metre lengths
- Standard thickness/depth of 100mm
- Available in a reduced thickness/depth of 82mm
- Optional integral DPC to prevent moisture migration
- Supplied plain as standard. optional foil encapsulation available
- No maintenance required after installation

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## Sizes

100mm deep (+5mm for compression fit) x 1000mm with width to suit cavity.

Non-standard 82mm depth available upon request.



Notes

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# Passive Fire Protection for Brickwork

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