

Key Features:

- Up to 90 minutes Fire Rated
- Maintains 44*mm air gap
- Up to 450mm cavities
- Weather Proof/Age Tested Intumescent
- Simple to install



TENMAT's VFB Plus Ventilated Fire Barrier is an 'Open State' cavity fire barrier system for ventilated cavities of up to 450mm which employs a high expansion intumescent seal fixed to **TENMAT** High Density Mineral Wool. The product has undergone extensive fire testing to BS 476: Parts 20 and 22: 1987, EN1363-1: 1999, and to the requirements of ASFP TGD19 (Fire Resistance Test for 'Open-State' Cavity Barriers). It is suitable for use within the majority of construction types, enabling the versatile system to be specified with confidence and provide the installer with a simple, time saving and site friendly solution.

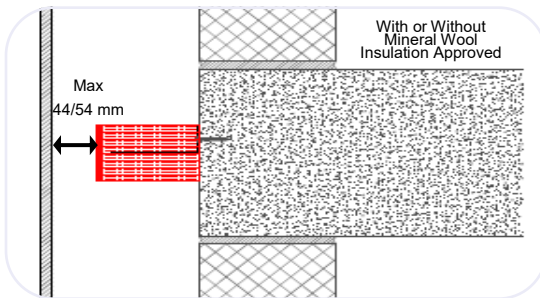
The VFB Plus can be mechanically fixed both horizontally and vertically within ventilated cavities behind rainscreen or cladding systems to act as a cavity fire barrier.

Product Dimensions

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

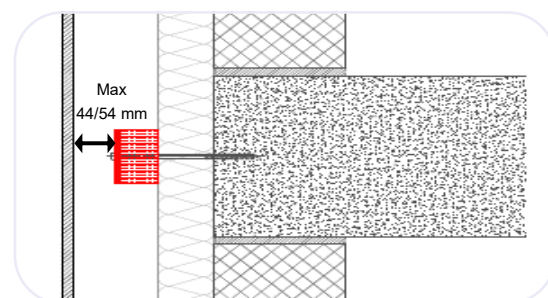
Examples of Approved Applications

VFB Plus Fixed to Non-Combustible Constructions



VFB Ref.	Assessed Construction Type	Fire Rating Horizontal	Fire Rating Vertical
VFB Plus	Brick, Block, Masonry	30, 60, 90	30, 60, 90
VFB Plus	Aerated Concrete Block	30, 60, 90	30, 60, 90

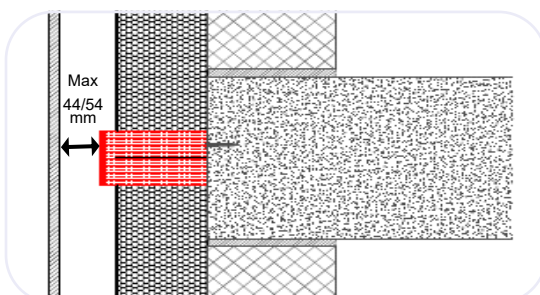
VFB Plus Fixed onto Mineral Fibre Insulation



VFB Ref.	Assessed Construction Type	Fire Rating Horizontal	Fire Rating Vertical
VFB Plus	Min. Fibre on Concrete	90	90
VFB Plus	Min. Fibre on Timber Frame	30	30

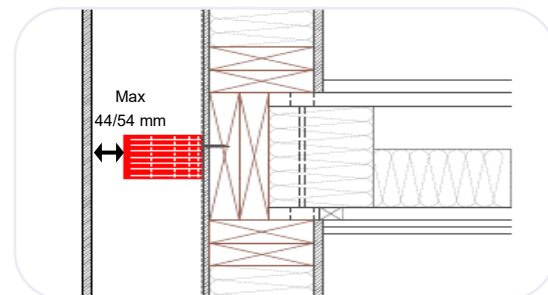
Cavity size restrictions apply. Check with **TENMAT** prior to specifying.

VFB Plus Fixed between Kingspan K15 Rigid Insulation



VFB Ref.	Assessed Construction Type	Fire Rating Horizontal	Fire Rating Vertical
VFB Plus	Fitted within Kingspan K15	30, 60, 90, 120	30, 60, 90, 120

VFB Plus Fixed to Combustible Timber



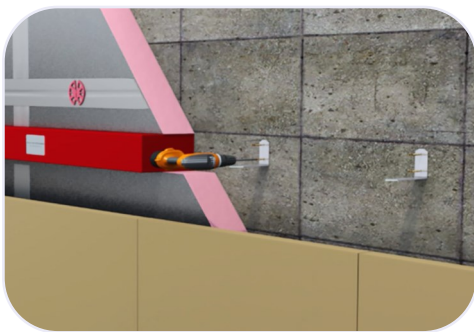
VFB Ref.	Assessed Construction Type	Fire Rating Horizontal	Fire Rating Vertical
VFB Plus	Timber Frame	30	30

General Fitting Instructions

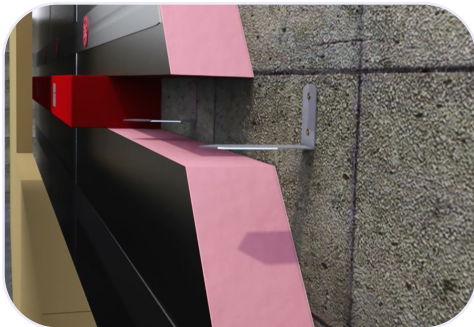
For detailed fitting instructions for various applications please contact **TENMAT**.

TENMAT's VFB Plus is a particularly versatile and extensively fire tested Ventilated Fire Barrier which can be installed in a wide range of construction types. The product is simply mechanically fixed in position to leave up to a maximum 44mm* air gap.

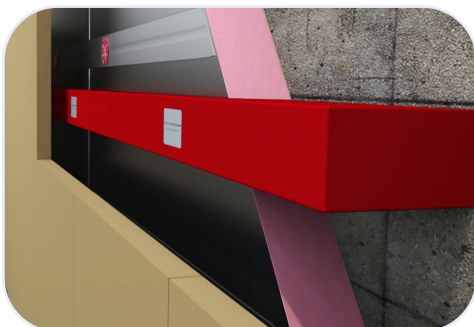
Total Cavity Size	Fixings required (per 1/m)	Fixing Centres (per 1/m)
Up to 120 mm	None (screw fixed)	Max.250mm centres
120-259 mm	2No. Multipurpose Brackets (supplied)	Max.500mm centres
260-300 mm	3No. Multipurpose Brackets (supplied)	Max.300mm centres
300-450 mm	2No. HP Brackets (supplied)	Max.500mm centres



- Fix VFB Plus with required fixings and recommended fixing centres as specified in above table.
- Screw Fixing—Non-combustible stainless steel screws. Maximum screw head diameter is 11.5mm (trumpet/countersunk type head only).
- Brackets should be fixed to the substrate with 2no.non-combustible screws. The brackets should impale the VFB Plus at mid barrier depth.



- Cut the barrier down to size/length if required.
- Each section of VFB Plus greater than 250mm, must be mechanically fixed with 2no. Brackets; if VFB Plus section is 250mm or less than, only 1no. Bracket is required.
- The bracket should not protrude through the rigid intumescent element, but should penetrate the barrier to approx. three quarters of the width of the product.



- Ensure label side is facing out so that the intumescent element faces into cavity in case of fire.
- Adjacent lengths must be tightly butted together.
- Ensure the product is pushed back to be fully in contact with supporting wall.



- Maximum remaining air gap to the back of the external face is 44mm*.
- Ensure Fire Barrier is free to expand in a fire situation.

*Max 44mm air gap (54mm air gap possible in limited applications only, please check with **TENMAT**).