CI/SfB			
		(29)	(K2)
CAW P10 Uniclass JP10:L68114			

Nullifire
Smart Protection

FV225

Large Ventilated Cavity Barrier

up to 180 mins

Product Information

Description
FV225 Large Ventilated Cavity Barrier is suited to a ventilated cavity with a maximum air gap of 25 mm and consists of a specially formulated fire rated rock mineral fibre section with an integral high expansion intumescent seal attached to the leading edge.

Usage / Purpose
FV225 is a fire rated product designed to act as an external wall cavity barrier at the required locations such as compartment floors, around windows, doors, etc. and within uninsulated cavities requiring permanent (open-state) ventilation.
In the event of a fire FV225 will expand to close the final gap between its leading edge and the internal face of the cladding. It provides effective fire resistance, for integrity and insulation for up to 180 minutes depending upon the construction of the external walls. FV225 is designed for use within a designed cavity of up to 450 mm, and once installed will close the remaining free air gap (in front of the 4 mm thick cavity barrier) of 25 mm.

Product Dimensions
Length: 1000 mm
Height: 75 mm
Thickness: 4 mm

Colour
Blue

Packaging
Polythene Wrap

Availability
Direct from Tremco CPG UK Limited (see details on this TDS).

Usage Guidelines

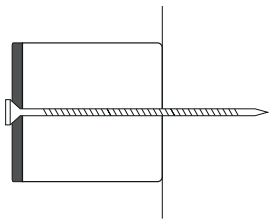
Always read SDS, pre-application guidance and relevant application detail prior to application. Ensure the latest documents are downloaded prior to every project commencement.

Necessary Tools
- Masonry drill
- Screwdriver
- Saw/knife for cutting product
- Measuring tape
- Stainless steel fixings suited to the substrate

Preparation
- Ensure the installation area is free from dust, oil and any corrosive material.
- Check the mounting substrate is solid and free from damage and degradation before beginning.
- Check for any obstructions that could impact the fire performance and allow fire to spread vertically. If there are any ensure they are an approved and applicable fire stopping solution.

Application Instructions
FV225 from 40 mm up to 100 mm wide - NO brackets required and directly faced fixed

1. Use stainless steel countersunk head screws, with a maximum head diameter of 11.5 mm and with a length suitable for the size of cavity barrier and sufficient fixing depth into the substrate.
2. Fixings must have an appropriate fixing depth into the substrate (with a minimum of 50 mm for masonry fixings and minimum 25 mm for timber unless otherwise specified by the fixing manufacturers guidance for their fixing type).
3. Ensure that the countersunk screw head does not fully penetrate the face of the cavity barrier, the screw head should sit flush or slightly proud. See figure below.
4. Care should be taken not to over tighten as this may affect the performance of the intumescent seal.
5. Position the first screw fixing through the centre line of the face of the cavity barrier at a maximum 125 mm from one end, continue to face fix through at maximum 250 mm centres (4 screws per linear meter), ensuring that the final fixing is a maximum 125 mm from the end of the cavity barrier. This will ensure that face fixings are positioned at 250 mm centres across the continuous run of cavity barrier.



Key Benefits Summary
- **Up to 180 minutes fire resistance tested in accordance with ASFP TGD19 Guidance**
- **Maintains a 25 mm air gap**
- **Up to 450 mm cavities tested**
- **Fixing brackets included as standard**
- **Allows ventilation of cavities reducing the need for cavity trays or weepholes**
- **Lightweight for easy and quick installations**
- **No maintenance required after installation**

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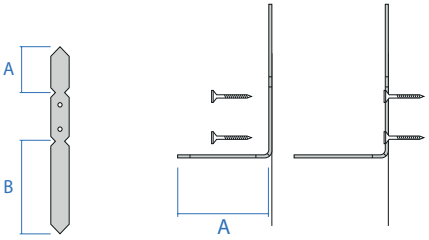
NOTES:

- Where sections of cavity barrier are less than 1 linear meter in length, ensure that face fixings are positioned at a maximum 125 mm from each end with additional fixing being positioned at maximum 250 mm centres between the end fixings.
- For cut sections of cavity barrier less than or equal to 250 mm in length a minimum of two fixings are required.

Brackets Fixing

FV225 is supplied with 2 or 3 fixing spikes, FO306 Small Steel Brackets, dependent on requirement.

The central section is pre-drilled to secure the bracket to the substrate. Option A, from the image below, will protrude 65 mm or Option B will protrude 160 mm from the face of the substrate. If the bracket protrusion is greater than 75% of the product width, the bracket shall be cut down in length. The bracket should never be less than 50% of the product width.



NOTES: FV225 above 100 mm are required to be mounted on Stainless Steel brackets (FO306 Small Steel Brackets 65 mm). The number of brackets required is dependent upon the width of the overall cavity. All FV225 above 100 mm require 4 number pigtails screws (per linear meter and not supplied).

Application Instructions with Brackets

1. To secure the bracket use nom. 5 mm Ø stainless steel screws/fixings, with a maximum head diameter of 13 mm and with a length and type suitable for the substrate. See Performance Data Table.

NOTES:

- Ensure that the screw head sits as flush as possible with the substrate.
- Fix through both of the fixing holes.
- Fixings must have an appropriate fixing depth for the substrate (with a minimum of 50 mm for masonry and minimum 25 mm for timber unless otherwise specified by the fixing manufacturers guidance for their fixing type).

Technical information

Property	Value
Fire Resistance: TGD19	Up to 180 minutes (see performance table)
Composition	Flexible intumescent material roll
Free Expansion	26:1 Ratio
Durability	Type X intended for use in conditions exposed to weather (UV, rain, frost)
Maximum Continuous Operating Temperature	80°C
Smoke / Halogen Content	Low smoke / Zero halogen
Service Temperature	-20°C to +70°C
Storage	Store in dry, ambient conditions between -20°C and +70°C
Shelf Life	60 years

2. Fix the required number of brackets, per linear meter, to the substrate at maximum 250 mm from the end of the cavity barrier, with a maximum spacing between brackets of 500 mm.

NOTES:

- Excluding cavity width 241 mm to 425 mm which requires 3 brackets.
- Where sections of cavity barrier are less than 1 linear meter in length, ensure that the brackets are positioned at a maximum 250 mm from each end. For cut sections of cavity barrier less than or equal to 500 mm in length 2 brackets are required.

3. Push the cavity barrier onto the bracket spike, the brackets should impale FV225 to mid barrier depth and must not protrude through the intumescent element.
4. Ensure the cavity barrier should be pushed fully onto the bracket spike and sit flush with the substrate at the rear of the cavity barrier, ensuring that there are no gaps behind the cavity barrier.
5. Ensure the spike does not pierce through the intumescent material.

Important Information

- Maximum free air gap for this cavity barrier is 25 mm, the space in front of the intumescing strip on the face of the cavity barrier to the rear of the external wall surface.
- Ventilated cavity barriers should be installed in a continuous run (with the exception of abutting up to full fill vertical cavity barriers). Where this is not possible, details should be agreed with the projects principal designer and or fire engineer.
- Horizontal cavity barriers should be installed adjacent and tightly abutted to any vertical cavity barriers, the vertical cavity barriers should be installed first.
- An identification label is attached to the intumescing face of the cavity barrier, ensure this faces out into the open cavity. Also ensure the label is visible and legible and reads the right way up. If the identification label is not legible please contact our Technical Support, the label is important in terms of identifying the product in the future, for example during fire risk assessments or fire safety inspections.
- Cavity barrier fixing brackets, both Small (FO306) or Large Steel Brackets (FO307) must not penetrate through the face of the cavity barrier. Screws for direct fixing and fixings to secure brackets are not supplied by CPG Europe.
- The brackets used to fix the horizontal cavity barrier must be installed with the spike inserted centrally (horizontally) to the rock mineral wool section of the cavity barrier with the bracket fixed above and not below the cavity barrier.
- The use of tape is not required over the joints between the lengths of cavity barrier, and if used should not be applied over the face of intumescent material.
- The cavity barrier must be installed following the installation methods. The cavity barrier must not be penetrated by any other mechanical or electrical services.

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Maintenance

No active maintenance required. Where alterations are made around the product it should be checked visually to ensure that the product is still installed as per the approved original design and fitting instructions at the time of original installation.

Health & Safety Precautions

Safety data sheet must be read and understood before use.

Technical Service

Tremco CPG UK Limited has a team of experienced Technical Sales Representatives who provide assistance in the selection and specification of products. For more information, service, advice please call Customer Services on 01942 251400.

Guarantee / Warranty

Tremco CPG UK Limited products are manufactured to rigid standards of quality. Any product which has been applied (a) in accordance with Tremco CPG UK Limited written instructions and (b) in any application recommended by Tremco CPG UK Limited, but which is proved to be defective, will be replaced free of charge. No liability can be accepted for the information provided in this leaflet although it is published in good faith and believed to be correct.
Tremco CPG UK Limited reserves the right to alter product specifications without prior notice, in line with Company policy of continuous development and improvement.
It is a requirement of the installer to ensure suitability and compatibility of all elements before installation commences and that compliance can be achieved as required.

TREMCO Construction Products Group

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