PFC COROFIL
PASSIVE FIRE PROTECTION SOLUTIONS

Product Brochure:

Passive Fire Protection for Façades

CAVITY BARRIERS

SERVICE PENETRATIONS

Revision 1

PFC Corofil

Solutions for your Façade Passive Fire Protection needs.

PFC COROFIL
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PFC Corofil COSB 25

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Technical Description of Product

The PFC Corofil COSB 25 Barrier combines non combustible high density stone wool with a high expansion intumescent strip fixed to the outer face. It can be supplied in yellow polythene shrink wrap or foil encapsulated.

The PFC Corofil COSB 25 is designed to close off air gaps of 25mm. The intumescent strip will expand on heating to close off the air gap between the barrier and inner surface of the facade. Galvanised steel brackets are supplied as standard, stainless steel brackets can be ordered separately if required.

The fire resistance performance varies depending on which barrier is required to suit the application and build up of the substrates (please see performance data table below). The PFC Corofil Open State Barrier range is compliant to current market requirements and has been tested to the general principles of EN1363-1 and in accordance with ASFP Technical Guidance Document 19 (TGD 19).

Key Points

- Tested in accordance with ASFP TGD19 and to the general principles of EN1363-1.
- Provides various fire integrity performance dependent upon substrates and application.
- Suitable for cavities up to 450mm.
- Air gaps of 25mm and 44mm.
- 3rd party certification.

PFC Corofil COSB 44

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Technical Description of Product

The PFC Corofil COSB 44 Barrier combines non combustible high density stone wool with a high expansion intumescent strip fixed to the outer face. It can be supplied foil encapsulated or yellow polythene shrink wrapped.

The PFC Corofil COSB 44 is designed to close off air gaps of 44mm. The intumescent strip will expand on heating to close off the air gap between the barrier and inner surface of the facade. Galvanised steel brackets are supplied as standard, stainless steel brackets can be ordered separately if required.

The fire resistance performance varies depending on which barrier is required to suit the application and build up of the substrates (please see performance data table below). The PFC Corofil Open State Barrier range is compliant to current market requirements and has been tested to the general principles of EN1363-1 and in accordance with ASFP Technical Guidance Document 19 (TGD 19).

Key Points

- Tested in accordance with ASFP TGD19 and to the general principles of EN1363-1.
- Provides various fire integrity performance dependent upon substrates and application.
- Suitable for cavities up to 450mm.
- Air gaps of 25mm and 44mm.
- 3rd party certification.

PFC Corofil Cavity Fire Stop CCFS

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Technical Description of Product

PFC Corofil Cavity Fire Stop full fill cavity barrier is a stone wool product installed between the façade and the inner structure of a building to reinstate the fire resistance performance of the cavity.

PFC Corofil Cavity Fire Stop has been tested to EN1366-4 and EN1363-1 TR031. PFC Corofil Cavity Fire Stop is cut to size to suit the cavity width and can be supplied as plain stone wool, foil encapsulated, or with an integral DPC.

PFC Corofil Cavity Fire Stop has been designed and tested to be installed within building cavities between the façade and the inner structure. It can be installed against SFS with a calcium silicate fibre cement board and masonry substrates in both horizontal and vertical orientations. PFC Corofil Cavity Fire Stop can be installed in a masonry support system* in cavities up to 450mm wide. PFC Corofil Cavity Fire Stop is suitable for cavity widths up to 600mm.

Key Points

- Suitable for cavities up to 600mm.
- Can be installed against SFS with a calcium silicate fibre cement board.
- Can be installed against aerated concrete, concrete & masonry substrates.
- Can be installed in a masonry support system.
- Provides various fire integrity performance dependent upon substrates and application.

PFC Corofil Open State Insert COSI

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Technical Description of Product

PFC Corofil Open State Insert is a 150mm wide strip of 110kg/m³ density, non-combustible stone wool, the thickness required is dependent on the depth of the cassette panel up to 31mm deep.

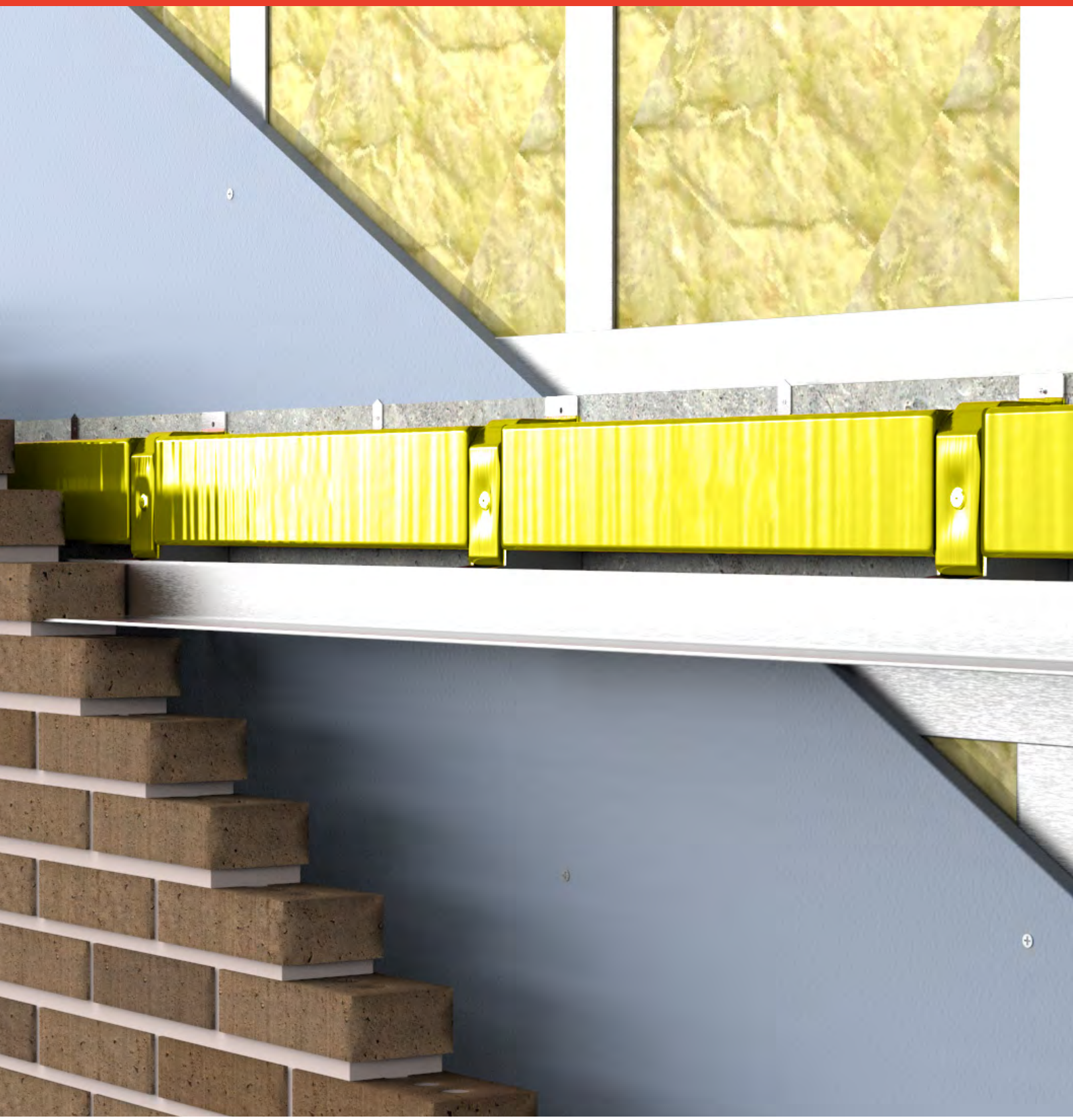
PFC Corofil Open State Insert is adhered to the inner face of the cassette panel using PFC Corofil Fire Resistant Silicone Sealant and should finish flush with the face of the cassette panel facing into the void and allows the intumescent open state barrier to maintain a continuous air gap at the back of the panel without the need to notch around the panel joints.

PFC Corofil Open State Insert is tested to the principles of EN1363-1 and ASFP technical Guidance Document 19 (TGD19).

Key Points

- Tested in accordance with the principles of EN1363-1 and ASFP Technical Guidance Document 19 (TGD19)
- Manufactured from the same stone wool as PFC Corofil Open State Barrier COSB 25 (1024)
- Suitable for cavity widths between 90mm and 300mm

PFC Corofil Open State Clip (COSC)



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Technical Description of Product

The PFC Corofil Open State Clip COSC 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.

PFC Corofil have developed the PFC Corofil Open State Clip (COSC) to work in combination with PFC Corofil's COSB 44 (1024) '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 PFC Corofil Open State Clip (COSC) 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 PFC Corofil Open State Clip (COSC) is to be used in conjunction with the PFC Corofil COSB 44 (1024) horizontal fire barriers and the PFC Corofil Cavity Fire Stop CCFS vertically to provide a complete cavity fire barrier solution for external brickwork cavities.

Key Points

- Fire resistance performance varies dependent upon application
- 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
- Patent Pending

FF102/25

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Technical Description of Product

The FF102/25 Ventilated Cavity Fire Barrier, is manufactured from low smoke zero halogen high expansion intumescent material and is designed to reinstate fire resisting performance to external wall cavities that are required to be ventilated (open-state) in non-fire conditions.

The FF102/25 is manufactured from a rigid intumescent material allowing it to be provided in a strip format, it is also covered with a protective layer of aluminium foil for ease of handling and increased durability. In the event of a fire the FF102/25 intumescent material will expand to close the external wall cavity, providing effective fire resistance, for integrity and insulation depending upon the construction of the external walls.

The FF102/25 is designed for use within a designed 25mm cavity, and once installed will close the remaining free air gap (in front of the 4mm cavity barrier) of 21mm.

Key Points

- A fire rated product designed to act as an external wall cavity barrier at the junction of compartment floors, within uninsulated cavities
- Tested to the principles of EN 1363-1 and in accordance with ASFP TGD 19 guidance
- Ventilated design – developed to allow maximum ventilation of cavities reducing the need for cavity trays or weepholes
- Suitable for “open-state” ventilated cavities up to 25mm wide
- Lightweight - designed to be easily and quickly installed
- No maintenance required after installation

FF102/50

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Technical Description of Product

The FF102/50 Ventilated Cavity Fire Barriers, are manufactured from a low smoke zero halogen high expansion intumescent material. They are designed to reinstate fire resisting performance to external wall cavities that are required to be ventilated (open-state) in non-fire conditions.

The FF102/50 is manufactured from a rigid intumescent material allowing it to be provided in a strip format, it is also covered with a protective layer of aluminium foil for ease of handling.

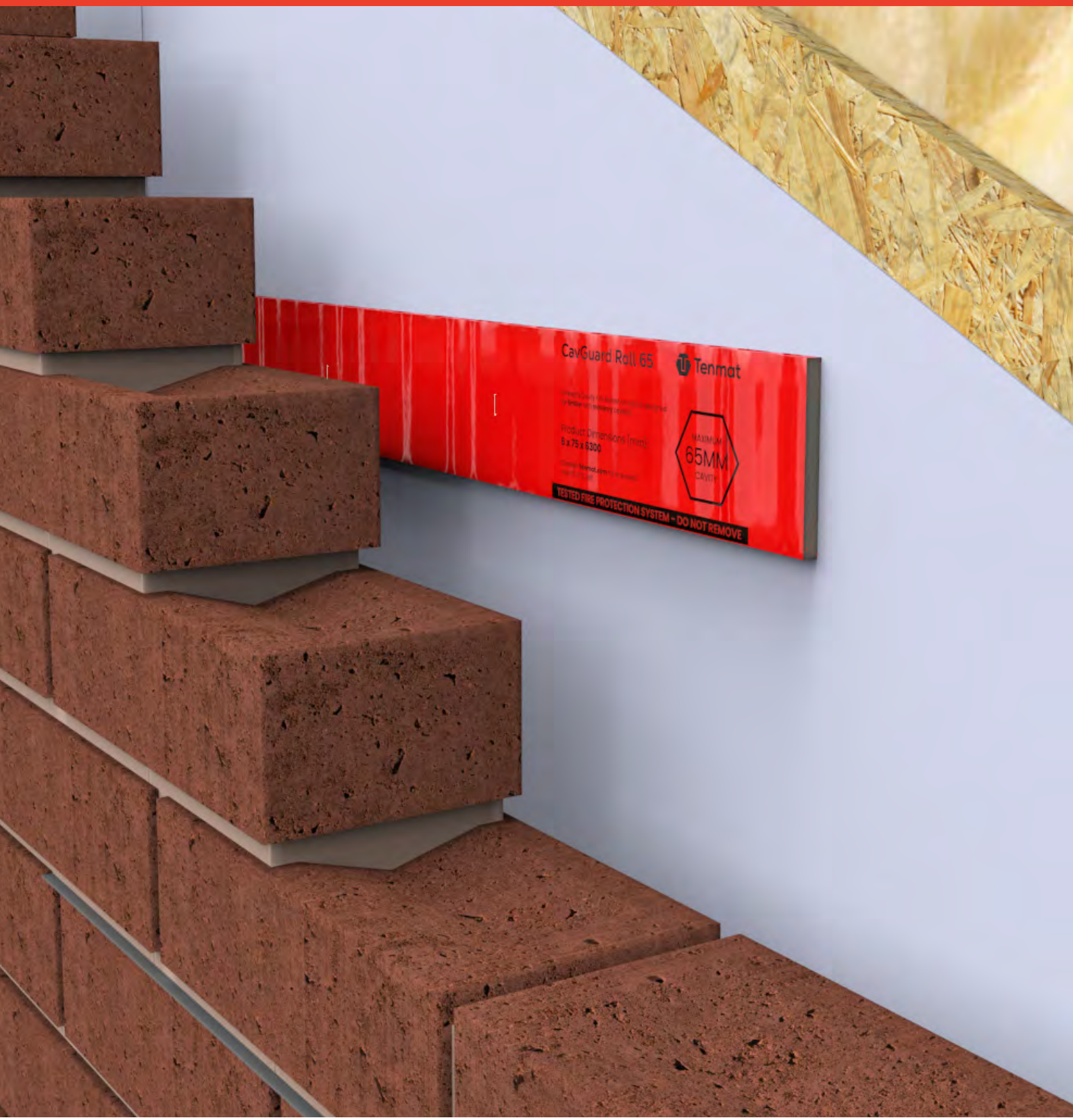
In the event of a fire the FF102/50 intumescent material will expand to close the external wall cavity, providing effective fire resistance, for integrity and insulation depending upon the construction of the external walls.

The FF102/50 is designed for use within cavities of up to 50mm and once installed will close the remaining free air gap in front of the 6mm cavity barrier of up to a maximum of 44mm (depending on construction type).

Key Points

- An “open state” cavity fire barrier for use horizontally within uninsulated, ventilated and drained cavities
- Tested to the general principles of BS EN 1363-1 following ASFP TGD 19 guidance
- Ventilated design – developed to allow maximum ventilation and drainage of cavities reducing the need for cavity trays or weepholes
- Suitable for “open-state” ventilated cavities up to 50mm wide
- Lightweight - designed to be easily and quickly installed
- No maintenance required after installation

CavGuard Roll 65



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Technical Description of Product

The 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 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).

Key Points

Technical

- A fire rated product, providing fire resistance performance within external wall cavities
- 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

Vent Duct Sleeve (Low Profile)

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Technical Description of Product

The Vent Duct Fire Sleeve Low Profiles (VDS LPs) are a family of CE Marked fire penetration seals designed to firestop PVC ventilation ducts / pipes when installed through fire rated constructions.

The unique vacuum formed intumescent material design ensures that the expansion direction of the material crushes and seals the ducting in a fire situation without the need for any additional support or metal sleeving.

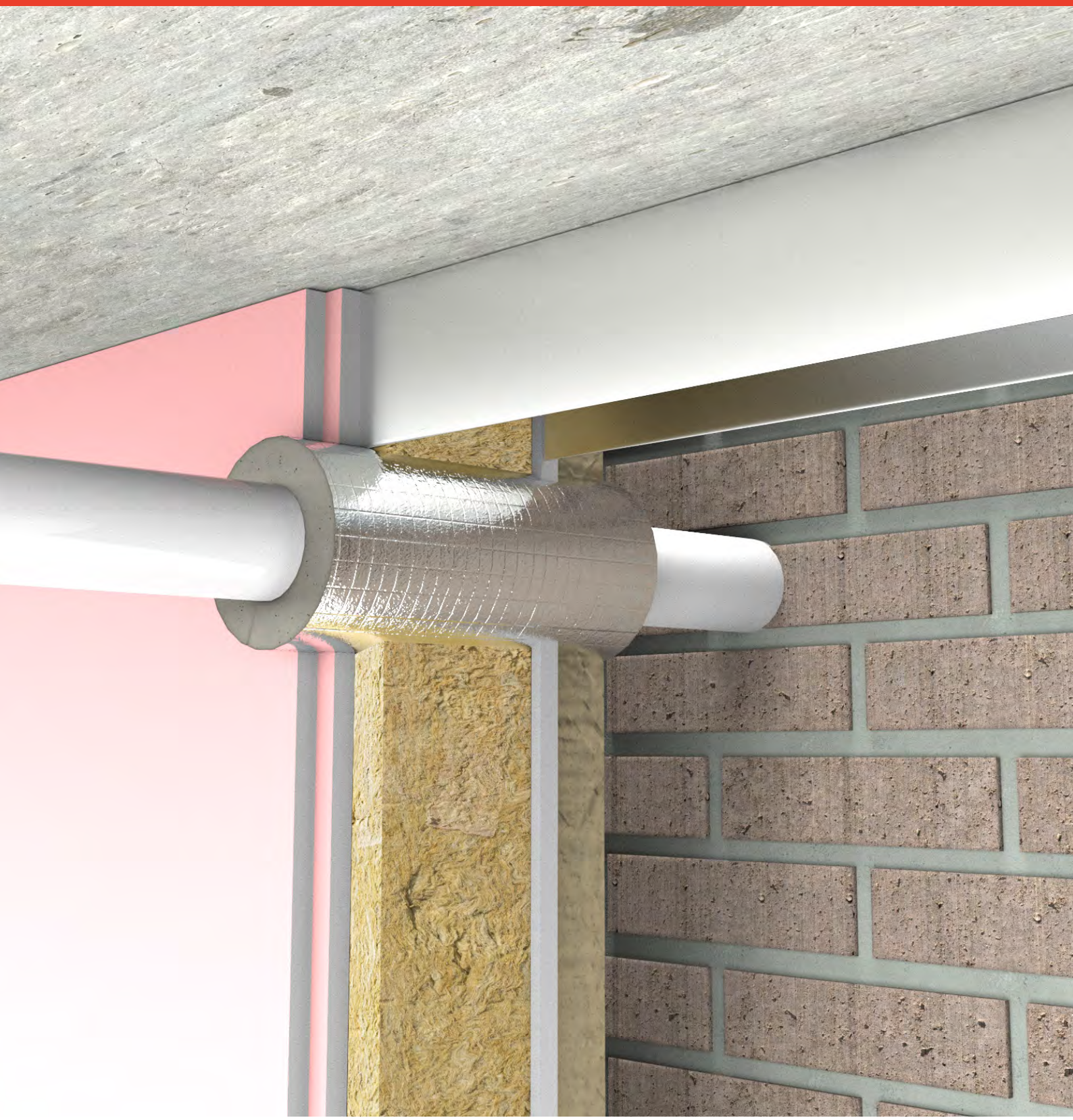
The lack of metal sleeving, not only makes installation easy, it also limits the risk of heat transfer through the structure as well as allowing compression to ensure a tight seal against fire and smoke or tight fitting against the ceiling soffit where needed.

The Fire Sleeves provide fire resistance ratings for Integrity (E) and Insulation (I) in an external wall construction.

Key Points

- Tested in external wall / SFS constructions
- U/U - Uncapped/Uncapped tested as required for ventilated systems
- Can be retro fitted
- Low profile design
- Available preformed and ready to install in both circular or rectangular shapes
- No metal sleeving or boxing out required

PFC Corofil Insulated Fire Sleeve CIFS



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Technical Description of Product

The PFC Corofil Insulated Fire Sleeve CIFS are a range of passive fire protection penetration seals designed to firestop insulated metal and combustible plastic pipes.

The Fire Sleeves offer Fire, Acoustic, Thermal and Vapour seal performance to a range of pipes passing through external wall constructions.

The CE Marked range are fire tested in accordance with EN 1366-3 including in external walls with additional assessments to BS 476 Part 20.

The PFC Corofil Insulated Fire Sleeve CIFS are manufactured from a unique, low smoke, zero halogen intumescent material. The Fire Sleeves are supplied pre-formed and ready to install to suit a variety of pipe diameters.

With a nominal thickness of 25mm, the compressible intumescent sleeve is supplied wrapped in a reinforced aluminium foil allowing it to be cut down its length and retro-fitted around the pipes. This provides an effective fire, smoke and acoustic seal whilst also allowing for some thermal movement.

Key Points

- CE Marked
- 4-in-1 Solution - Fire, Acoustic, Thermal and Vapour Seal
- Suitable for various ABS pipes up to 55mm diameter and PVC Plastic Pipes up to 110mm diameter
- Simple & quick to install, no fixings or sleeving required
- Lubrizol Approved
- FBC™ System Compatible

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