PFC COROFIL
PASSIVE FIRE PROTECTION SOLUTIONS

PFC Corofil

Cavity Fire Barriers

CAVITY BARRIERS

Revision 3

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PFC COROFIL
PASSIVE FIRE PROTECTION SOLUTIONS

Product Information

PFC COROFIL
PASSIVE FIRE PROTECTION SOLUTIONS

IFC Certification

NBS

ASFP

CCPi PRODUCT
VERIFICATION NUMBER:
002300002/0925

PFC Corofil

Open State Barriers

COSB 25

Field of Application (1024) PAR/23650/02
Field of Application (1074) PAR/23650/03
3rd Party certification IFCC1584

Technical Description of Product

PFC Corofil Open State Barrier COSB 25 comprises a graphite based intumescent strip, pre fixed to one long edge of a mineral stone wool slab. PFC Corofil Open State Barrier COSB 25 is supplied in single lengths 1000mm long, pre-cut to suit the cavity width and each length is shrink wrapped in polythene.

For cavity widths greater than 100mm PFC Corofil Open State Barrier COSB 25 is attached to the inner substrate using PFC Corofil MP or HP brackets depending on the cavity width (see table on page 5 of technical datasheet).

For cavity widths 100mm or less the barrier is fixed directly to the substrate using screws (see table on page 5 of technical datasheet).

Intended Use

PFC Corofil Open State Barriers are designed to reinstate the horizontal fire resistance performance of facades which have been designed to maintain a continuous air flow around the building and must accommodate a continuous air gap at the cavity barrier, allowing moisture to dissipate under normal circumstances, but reacting in the event of fire to rapidly close off the air gap to help prevent the spread of fire.

The fire resistance performance varies depending on the barrier used and the application it is installed within (please see performance data table on page 6 of technical datasheet).

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).

This data sheet shows the only applications the product has been tested in. Please ensure the product has been tested in and is suitable for your application (see PFC Corofil terms and conditions 13.1.1).

Key Points

- Tested in accordance with ASFP TGD19 and to the general principles of EN1363-1.
- Suitable for cavities up to 450mm.
- Air gaps of up to 25mm.
- 3rd party certification.

PFC COROFIL
PASSIVE FIRE PROTECTION SOLUTIONS

Technical Data

Specification

Product Description	High expansion intumescent strip fixed to either 82mm or 100mm thick high density stone wool and either polythene shrink wrapped or foil encapsulated	
Cavity sizes	Suitable for cavity widths from 40mm up to 450mm including a 25mm air gap	
Fire Resistance	Up to 180 minutes integrity Up to 180 minutes insulation (See performance data table)	Tested to general principles of EN1363-1 and in accordance with ASFP TGD 19
Colour/Appearance	COSB 25 (1024) Black polythene wrapped COSB 25 (1074) Red polythene wrapped COSB 25 (1404) Foil encapsulated	

Installation Instructions

- The polythene shrink wrap or foil is an integral part of the product, please ensure it is still in place following installation.
- If insulation is installed, remove the insulation layer at the point where the barrier is to be installed.
- Ensure the correct size barrier is installed to suit the cavity width, allowing for the required air gap and specified fire performance.
- Ensure the intumescent strip faces out towards the external facade.
- When fixing into Siniat Weather Defence board, the fixings (supplied by others) must penetrate the depth of the board so they are fixed back into the framework behind.
- When fixing to masonry, the fixings (supplied by others) should be of an appropriate type and length for the surface the brackets are being fixed to.
- When fixing into other surfaces, the fixings (supplied by others) should be of an appropriate type and length for the surface the open state cavity barrier is being fixed to.
- The substrates the barriers have been tested with can be found in the table on page 6.
- Please consult a fixings manufacturer for the correct fixings for the substrate.
- Seal any gaps up to 5mm wide with PFC Corofil Acoustic Intumescent Sealant to a minimum depth of 10mm.
- For lengths shorter than 1 metre reduce the fixing centres to accommodate the required number of fixings/brackets at an equal distance apart. For lengths 200mm long or less, install one fixing/bracket centrally.
- When cutting Open State Barrier (COSB) to short lengths, ensure the polythene shrink wrap/foil is reinstated.
- Ensure the intumescent is free to expand across the air gap to the back of the external wall leaf in a fire situation.

Direct fixing

- Mechanically fix the COSB back to the inner substrate using 4 fixings (supplied by others - see fixings table on page 5) along the central line of the barrier. Ensure the head of the screw does not penetrate the intumescent part of the barrier. The screw head must not exceed 11mm in diameter.
- Ensure that adjacent lengths have their joints tightly abutted together and are aligned flush with each other to create the appearance of a continuous barrier.

Fixing with brackets

- Mechanically fix the brackets to the substrate (see fixings table on page 5 for quantity and type of bracket) using the appropriate non-combustible corrosion resistant fixings (supplied by others) per bracket.
- Spike the COSB onto the brackets centrally along the length of the barrier.
- Ensure that adjacent lengths have their joints tightly abutted together and are aligned flush with each other to create the appearance of a continuous barrier.

Fixings						
Product Reference	PFC Corofil reference	Overall cavity width (mm)	Inner substrate	Fixing type	Centres	Appearance
COSB25	1074 or 1024	40	Masonry	5.0 x 70mm CSK head pozidrive screws	250	Polythene wrapped
		41 - 300		MP brackets	500	
		301 - 450		HP brackets	500	
	1024	60mm	Gypsum	5.8 x 95mm CSK self drilling screws	250	
		61mm - 300mm		MP brackets	500	
	1404	80	Masonry	5.0 x 100mm CSK Woodscrews in plastic plugs	250	Foil encapsulated
		425 - 450	Gypsum	HP brackets	500	

Substrates

Masonry; minimum 150mm thick and comprise of concrete, aerated concrete or masonry, with a minimum density of 650kg/m^3.

Steel Frame System; Metsec SFS 100mm x 2mm thick faced with 12.5mm Siniat Weather Defence Board on the outer face.

Terminology

Integrity: The length of time it takes for the fire to pass to the non fire side.
Insulation: The length of time it takes for the heat of the fire to pass to the non fire side.

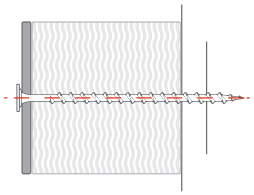
Installation Instructions

Considerations before installation

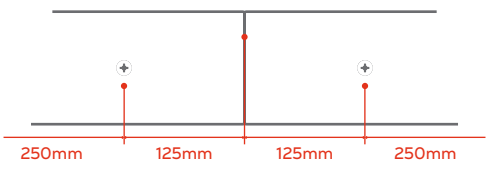
- The polythene shrink wrap or foil is an integral part of the product, please ensure it is still in place following installation.
- If insulation is installed, remove the insulation layer at the point where the barrier is to be installed.
- Ensure the correct size barrier is installed to suit the cavity width, allowing for the required air gap and specified fire performance.
- Ensure the intumescent strip faces out towards the external facade.
- When fixing into Siniat Weather Defence board, the fixings (supplied by others) must penetrate the depth of the board so they are fixed back into the framework behind.
- When fixing to masonry, the fixings (supplied by others) should be of an appropriate type and length for the surface the brackets are being fixed to.
- When fixing into other surfaces, the fixings (supplied by others) should be of an appropriate type and length for the surface the open state cavity barrier is being fixed to.
- The substrates the barriers have been tested with can be found on page 6 of the Technical Data Sheet.
- Please consult a fixings manufacturer for the correct fixings for the substrate.
- Seal any gaps up to 5mm wide with PFC Corofil Acoustic Intumescent Sealant to a minimum depth of 10mm.
- For lengths shorter than 1 metre reduce the fixing centres to accommodate the required number of fixings/brackets at an equal distance apart. For lengths 200mm long or less, install one fixing/bracket centrally.
- When cutting Open State Barrier (COSB) to short lengths, ensure the polythene shrink wrap/foil is reinstated.
- Ensure the intumescent is free to expand across the air gap to the back of the external wall leaf in a fire situation.

Direct fixings

Mechanically fix the COSB back to the inner substrate using 4 fixings (supplied by others - see fixings table on page 5 of Technical Data Sheet) along the central line of the barrier. Ensure the head of the screw does not penetrate the intumescent part of the barrier. The screw head must not exceed 11mm in diameter.

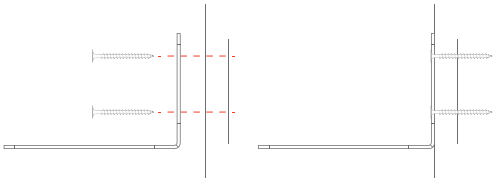


Ensure that adjacent lengths have their joints tightly abutted together and are aligned flush with each other to create the appearance of a continuous barrier.

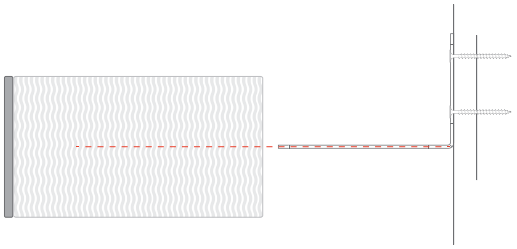


Fixings with brackets

Mechanically fix the brackets (see fixings table on page 5 of Technical Datasheet for quantity and type of bracket) to the substrate using the appropriate non-combustible corrosion resistant fixings (supplied by others) per bracket.



Spike the COSB onto the brackets centrally along the length of the barrier.

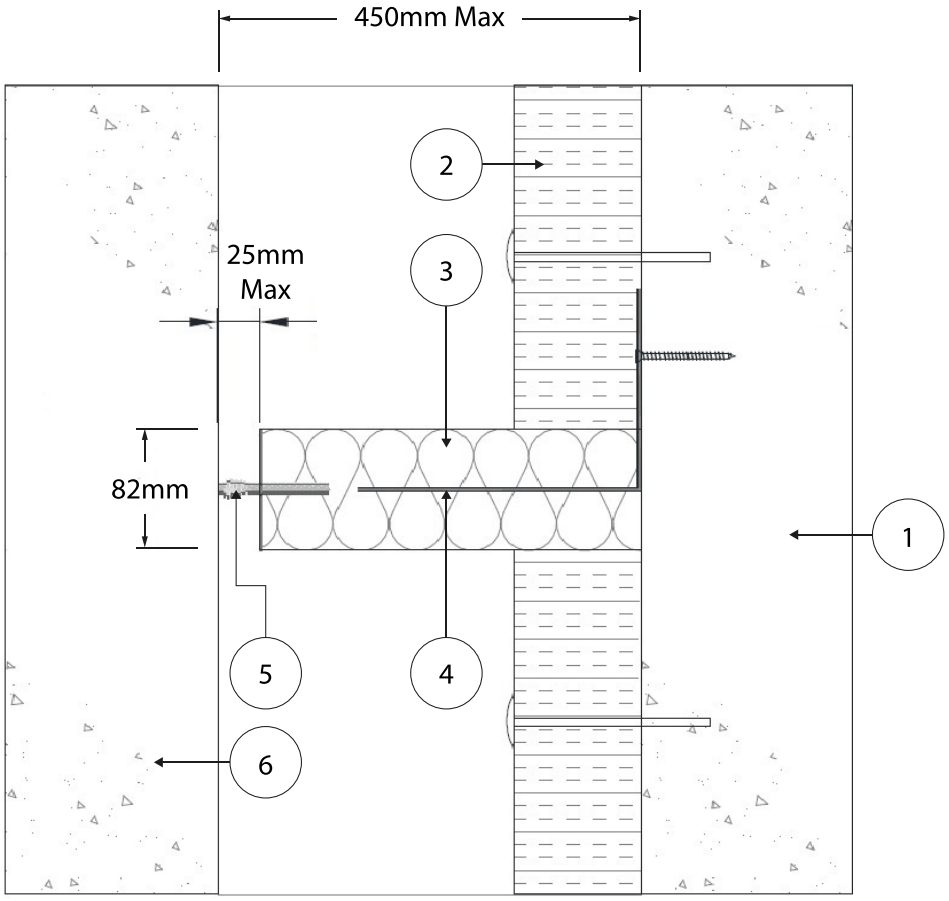


Ensure that adjacent lengths have their joints tightly abutted together and are aligned flush with each other to create the appearance of a continuous barrier.

Performance Data

Fire Resistance Performance							
Product Reference	PFC Corofil reference	Overall cavity width (mm)	Inner substrate	Air gap (mm)	Cavity insulation	Fire resistance performance	
						Integrity (minutes)	Insulation (minutes)
COSB25	1074	40	Masonry	25	None	180	180
		41 - 300			PIR/Phenolic Stone Wool	60	60
	1024	40	Masonry & Gypsum		None	180	180
		41 - 300			PIR/Phenolic/ Stone Wool	120	120
		301 - 450				90	90
	1404	80	Masonry			180	180
		425 - 450	Gypsum			180	120

PFC COROFIL OPEN STATE BARRIER COSB25 (1024) INSTALLED WITH MASONRY INNER SUBSTRATE [40mm - 450mm CAVITY WIDTH - 25mm AIR GAP]



PFC Corofil Open State Barrier COSB 25 (1024) to be installed in line with the product installation instructions See Technical Data Sheet TDSCOSB 25 for full details.

1. Masonry inner substrate
2. PIR / Phenolic / Stone Wool cavity insulation
3. PFC Corofil Open State Barrier COSB 25 (1024)
4. PFC Corofil Multipurpose (MP) / High Performance (HP) Bracket
5. PFC Corofil Pigtail Screw
6. Masonry outer substrate

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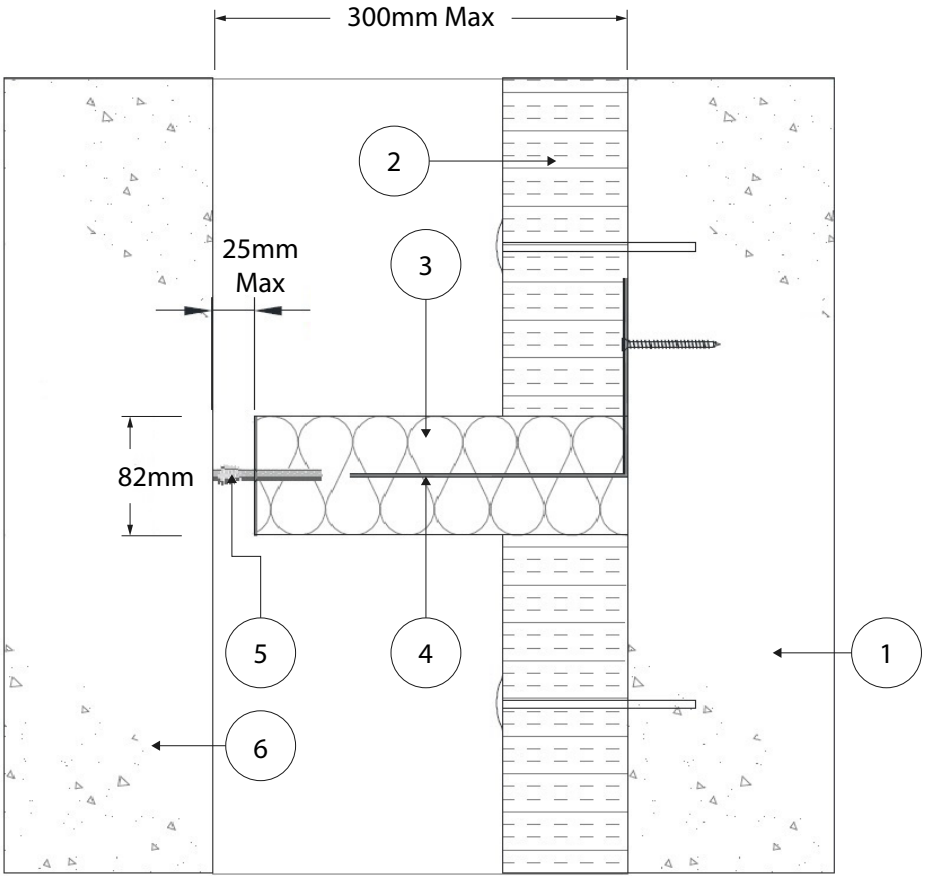
Units 3 & 4, King George Trading Estate, Davis Road, Chessington, Surrey KT9 1TT

Phone: 020 8391 0533 **Web:** www.pfc-corofil.com **Email:** tech@pfc-corofil.com

Drawing Title: COSB25 (1024) Masonry	**Date:** 24/02/2023
Drawing Number: COSB25-1024-M-450	**Checked by: SE/DQ**
Scale: Not to scale	**Revision: 1**

PFC COROFIL OPEN STATE BARRIER COSB25 (1074) INSTALLED WITH MASONRY INNER SUBSTRATE [40mm - 300mm CAVITY WIDTH - 25mm AIR GAP]



PFC Corofil Open State Barrier COSB 25 (1074) to be installed in line with the product installation instructions. See Technical Data Sheet TDSCOSB 25 for full details.

1. Masonry inner substrate
2. PIR / Phenolic / Stone Wool cavity insulation
3. PFC Corofil Open State Barrier COSB 25 (1074)
4. PFC Corofil Multipurpose (MP) Bracket
5. PFC Corofil Pigtail Screw
6. Masonry outer substrate

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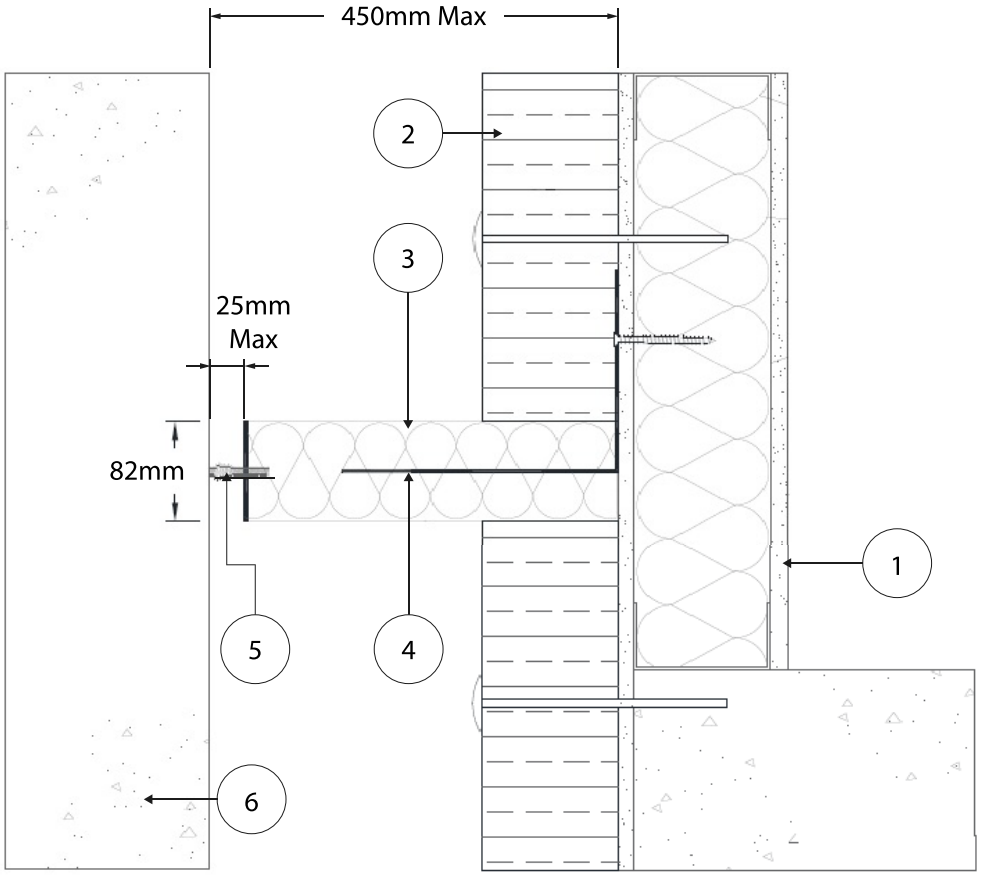
Phone: 020 8391 0533 **Web:** www.pfc-corofil.com **Email:** tech@pfc-corofil.com

Drawing Title: COSB25 (1074) Masonry	**Date:** 24/02/2023
Drawing Number: COSB25-1074-M-300	**Checked by: SE/DQ**
Scale: Not to scale	**Revision: 1**

PFC COROFIL OPEN STATE BARRIER COSB25 (1024) INSTALLED WITH SFS INNER SUBSTRATE [40mm - 450mm CAVITY WIDTH - 25mm AIR GAP]



PFC Corofil Open State Barrier COSB 25 (1024) to be installed in line with the product installation instructions. See Technical Data Sheet TDSCOSB 25 for full details.

1 SFS System with Gypsum Board

2 PIR / Phenolic / Stone Wool cavity insulation

3 PFC Corofil Open State Barrier COSB 25 (1024)

4 PFC Corofil Multipurpose (MP) / High Performance (HP) Bracket

5 PFC Corofil Pigtail Screw

6 Masonry outer substrate

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Phone: 020 8391 0533 **Web:** www.pfc-corofil.com **Email:** tech@pfc-corofil.com

Drawing Title: COSB25 (1024) SFS	**Date:** 24/02/2023
Drawing Number: COSB25-1024-SFS-450	**Checked by: SE/DQ**
Scale: Not to scale	**Revision: 1**

PENETRATION & LINEAR GAP SEALS SCHEME SDP13

Certificate number: IFCC1584

Certificate only valid if verified on website - www.ifccertification.com

This is a product certificate to certify that

Pre-Formed Components Ltd trading as

PFC COROFIL

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Which manufacture the following systems:

PFC Corofil COSB 25 Open State Cavity Barriers

have satisfied the requirements of the above scheme. This includes the testing of products to BS EN 1363-1:2012 in conjunction with ASFP TGD19 the inspection of their Factory Production Control and continuing surveillance audits and testing of samples of products taken from production. The product specification and reports are detailed below.

Test Reports: WF379525 &379527
First Issued: 04 Aug 2020
Revised: 09 June 2021
Valid to: 03 Aug 2025
Issue status: 2

UKAS PRODUCT CERTIFICATION
175

Ian Woodhouse
Director of Certification

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PFC COROFIL
PASSIVE FIRE PROTECTION SOLUTIONS

Notes

Product Information

PFC COROFIL
PASSIVE FIRE PROTECTION SOLUTIONS

PFC Corofil
Open State Barriers
COSB 44

Field of Application (1026) PAR/23650/01
3rd Party certification IFCC 1583

Technical Description of Product

PFC Corofil Open State Barrier COSB 44 comprises a graphite based intumescent strip, pre fixed to one long edge of a mineral stone wool slab. PFC Corofil Open State Barrier COSB 44 is supplied in single lengths 1000mm long, pre-cut to suit the cavity width and each length is shrink wrapped in polythene.

For cavity widths greater than 120mm PFC Corofil Open State Barrier COSB 44 is attached to the inner substrate using PFC Corofil MP or HP brackets depending on the cavity width (see table on page 5 of technical datasheet), the intumescent strip is mechanically fixed to the mineral stone wool. For cavity widths 120mm or less the barrier is fixed directly to the substrate using screws (see table on page 5 of technical datasheet).

Intended Use

PFC Corofil Open State Barriers are designed to reinstate the horizontal fire resistance performance of facades which have been designed to maintain a continuous air flow around the building and must accommodate a continuous air gap at the cavity barrier, allowing moisture to dissipate under normal circumstances, but reacting in the event of fire to rapidly close off the air gap to help prevent the spread of fire.

The fire resistance performance varies depending on the barrier used and the application it is installed within (please see performance data table on page 6 of technical datasheet).

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).

This data sheet shows the only applications the product has been tested in. Please ensure the product has been tested in and is suitable for your application (see PFC Corofil terms and conditions 13.1.1).

Key Points

- Tested in accordance with ASFP TGD19 and to the general principles of EN1363-1.
- Suitable for cavities up to 450mm.
- Air gaps of up to 44mm.
- 3rd party certification.

Technical Data

Specification

Product Description	High expansion intumescent strip fixed to either 82mm or 100mm thick high density stone wool and either polythene shrink wrapped or foil encapsulated	
Cavity sizes	Suitable for cavity widths from 60mm up to 450mm including a 44mm air gap	
Fire Resistance	Up to 180 minutes integrity and insulation (See performance data table)	Tested to general principles of EN1363-1 and in accordance with ASFP TGD 19
Colour/Appearance	COSB 44 (1026) Grey polythene wrapped COSB 44 (1406) Foil encapsulated	

Installation Instructions

- The polythene shrink wrap or foil is an integral part of the product, please ensure it is still in place following installation.
- If insulation is installed, remove the insulation layer at the point where the barrier is to be installed.
- Ensure the correct size barrier is installed to suit the cavity width, allowing for the required air gap and specified fire performance.
- Ensure the intumescent strip faces out towards the external facade.
- When fixing into Siniat Weather Defence board, the fixings (supplied by others) must penetrate the depth of the board so they are fixed back into the framework behind.
- When fixing to masonry, the fixings (supplied by others) should be of an appropriate type and length for the surface the brackets are being fixed to.
- When fixing into other surfaces, the fixings (supplied by others) should be of an appropriate type and length for the surface the open state cavity barrier is being fixed to.
- The substrates the barriers have been tested with can be found in the table on page 6.
- Please consult a fixings manufacturer for the correct fixings for the substrate.
- Seal any gaps up to 5mm wide with PFC Corofil Acoustic Intumescent Sealant to a minimum depth of 10mm.
- For lengths shorter than 1 metre reduce the fixing centres to accommodate the required number of fixings/brackets at an equal distance apart. For lengths 200mm long or less, install one fixing/bracket centrally.
- When cutting Open State Barrier (COSB) to short lengths, ensure the polythene shrink wrap/foil is reinstated.
- Ensure the intumescent is free to expand across the air gap to the back of the external wall leaf in a fire situation.

- **Direct fixing**

- Mechanically fix the COSB back to the inner substrate using 4 fixings (supplied by others – see fixings table on page 5) along the central line of the barrier. Ensure the head of the screw does not penetrate the intumescent part of the barrier. The screw head must not exceed 11mm in diameter.
- Ensure that adjacent lengths have their joints tightly abutted together and are aligned flush with each other to create the appearance of a continuous barrier.

- **Fixing with brackets**

- Mechanically fix the brackets to the substrate (see fixings table on page 5 for quantity and type of bracket) using the appropriate non-combustible corrosion resistant fixings (supplied by others) per bracket.
- Spike the COSB onto the brackets centrally along the length of the barrier.
- Ensure that adjacent lengths have their joints tightly abutted together and are aligned flush with each other to create the appearance of a continuous barrier.

Fixings						
Product Reference	PFC Corofil reference	Overall cavity width (mm)	Inner substrate	Fixing type	Centres	Appearance
COSB44	1026	60 - 80	10mm thick Cempanel Or 12.5mm Gypsum	Dependent on substrate	250	Polythene wrapped
		81 – 300	10mm thick Cempanel or 12.5mm Gypsum or Masonry	MP brackets	500	
		301 - 450	10mm thick Cempanel or 12.5mm Gypsum or Masonry	HP brackets	500	
	1406	100	Masonry	5.0 x 100mm CSK woodscrews in plastic plugs	250	Foil encapsulated
		300 - 500	Gypsum calcium silicate & masonry	HP brackets	500	

Substrates

Masonry; minimum 150mm thick and comprise of concrete, aerated concrete or masonry, with a minimum density of 650kg/m^3.
Steel Frame System; Metsec SFS 100mm x 2mm thick faced with 12.5mm Siniat Weather Defence Board on the outer face.

Terminology

Fire resistance classes:

E = Integrity. The length of time it takes for the fire to pass to the non fire side.
I = Insulation. The length of time it takes for the heat of the fire to pass to the non fire side.

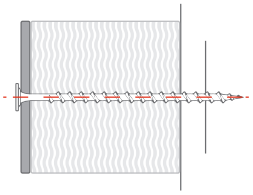
Installation Instructions

Considerations before installation

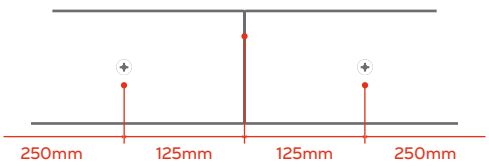
- The polythene shrink wrap or foil is an integral part of the product, please ensure it is still in place following installation.
- If insulation is installed, remove the insulation layer at the point where the barrier is to be installed.
- Ensure the correct size barrier is installed to suit the cavity width, allowing for the required air gap and specified fire performance.
- Ensure the intumescent strip faces out towards the external facade.
- When fixing into Siniat Weather Defence board, the fixings (supplied by others) must penetrate the depth of the board so they are fixed back into the framework behind.
- When fixing to masonry, the fixings (supplied by others) should be of an appropriate type and length for the surface the brackets are being fixed to.
- When fixing into other surfaces, the fixings (supplied by others) should be of an appropriate type and length for the surface the open state cavity barrier is being fixed to.
- The substrates the barriers have been tested with can be found in the table on page 6 of the Technical Data Sheet.
- Please consult a fixings manufacturer for the correct fixings for the substrate.
- Seal any gaps up to 5mm wide with PFC Corofil Acoustic Intumescent Sealant to a minimum depth of 10mm.
- For lengths shorter than 1 metre reduce the fixing centres to accommodate the required number of fixings/brackets at an equal distance apart. For lengths 200mm long or less, install one fixing/bracket centrally.
- When cutting Open State Barrier (COSB) to short lengths, ensure the polythene shrink wrap/foil is reinstated.
- Ensure the intumescent is free to expand across the air gap to the back of the external wall leaf in a fire situation.

Direct fixings

Mechanically fix the COSB back to the inner substrate using 4 fixings (supplied by others - see fixings table on page 5 of Technical Data Sheet) along the central line of the barrier. Ensure the head of the screw does not penetrate the intumescent part of the barrier. The screw head must not exceed 11mm in diameter.

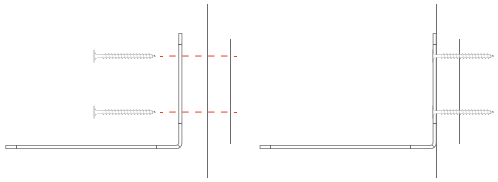


Ensure that adjacent lengths have their joints tightly abutted together and are aligned flush with each other to create the appearance of a continuous barrier.

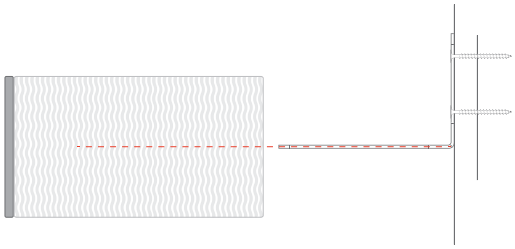


Fixings with brackets

Mechanically fix the brackets (see fixings table on page 5 of Technical Data Sheet for quantity and type of bracket) to the substrate using the appropriate non-combustible corrosion resistant fixings (supplied by others) per bracket.



Spike the COSB onto the brackets centrally along the length of the barrier.

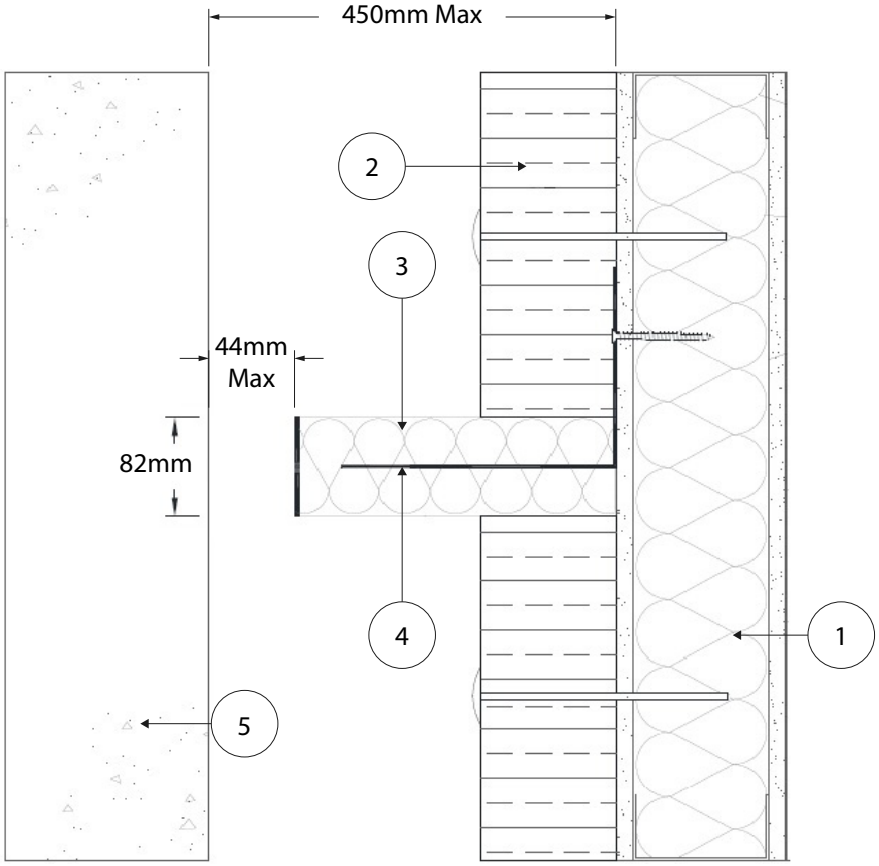


Ensure that adjacent lengths have their joints tightly abutted together and are aligned flush with each other to create the appearance of a continuous barrier.

Performance Data

Fire Resistance Performance							
Product Reference	PFC Corofil reference	Overall cavity width (mm)	Inner substrate	Air gap (mm)	Cavity insulation	Fire resistance performance	
						Integrity	Insulation
COSB44	1026	60	10mm CP board or 12.5mm Gypsum	44	None	180	180
		61 - 80			PIR/Phenolic/ Stone Wool	120	90
		60 - 300	Masonry			60	60
		81 - 450	10mm CP board or 12.5mm Gypsum or 12.5mm Y-Wall			30	30
	1406	300	Masonry			120	120
		450	Gypsum			90	90
		500	Gypsum			180	180

PFC COROFIL OPEN STATE BARRIER COSB44 (1026) INSTALLED WITH SFS INNER SUBSTRATE [60mm - 450mm CAVITY WIDTH - 44mm AIR GAP]



PFC Corofil Open State Barrier COSB 44 (1026) to be installed in line with the product installation instructions. See Technical Data Sheet TDSCOSB 44 for full details.

1. SFS System with CP Board / Gypsum Board / Y-Wall
2. PIR / Phenolic / Stone Wool cavity insulation
3. PFC Corofil Open State Barrier COSB 44 (1026)
4. PFC Corofil Multipurpose (MP) / High Performance (HP) Bracket
5. Masonry outer substrate

PFC COROFIL
PASSIVE FIRE PROTECTION SOLUTIONS

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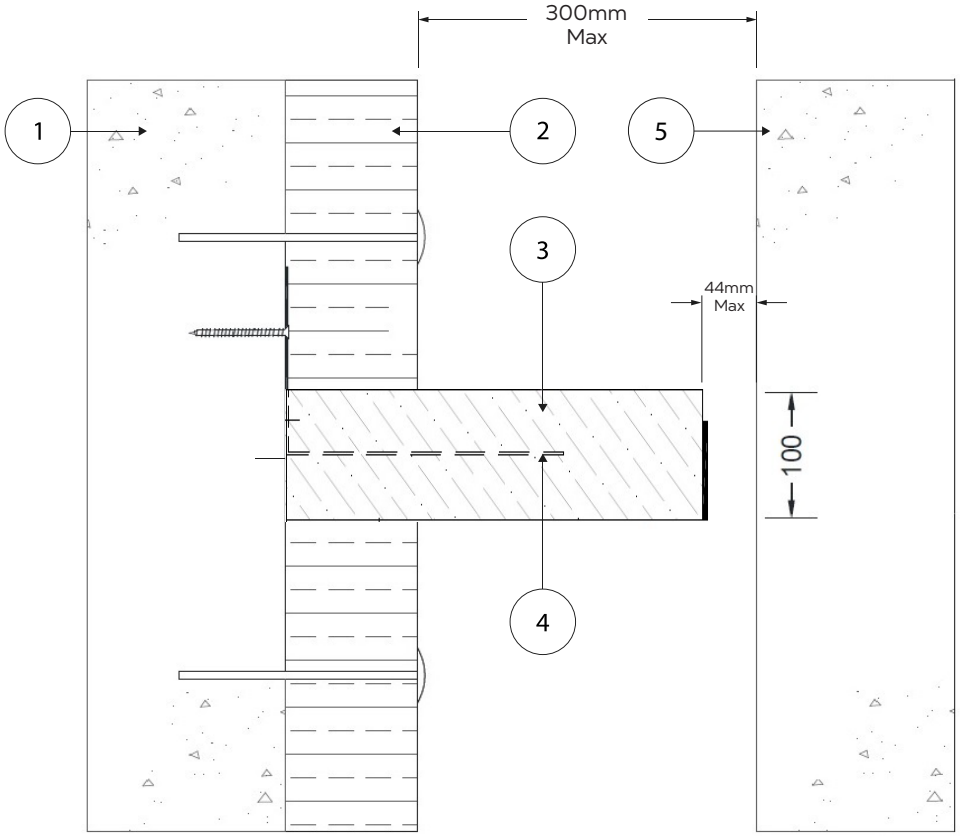
Phone: 020 8391 0533 **Web:** www.pfc-corofil.com **Email:** tech@pfc-corofil.com

Drawing Title: COSB44 (1026) SFS	**Date:** 24/02/2023
Drawing Number: COSB44-1026-SFS-450	**Checked by: SE/DQ**
Scale: Not to scale	**Revision: 1**

PFC COROFIL OPEN STATE BARRIER COSB44 (1406) INSTALLED WITH MASONRY INNER SUBSTRATE [UP TO 300mm CAVITY WIDTH - 44mm AIR GAP]



PFC Corofil Open State Barrier COSB 44 (1406) to be installed in line with the product installation instructions. See Technical Data Sheet TDSCOSB 44 for full details.

1. Masonry inner substrate
2. PIR / Phenolic / Stone Wool cavity insulation
3. PFC Corofil Open State Barrier COSB 44 (1406)
4. PFC Corofil High Performance (HP) Bracket
5. Masonry outer substrate

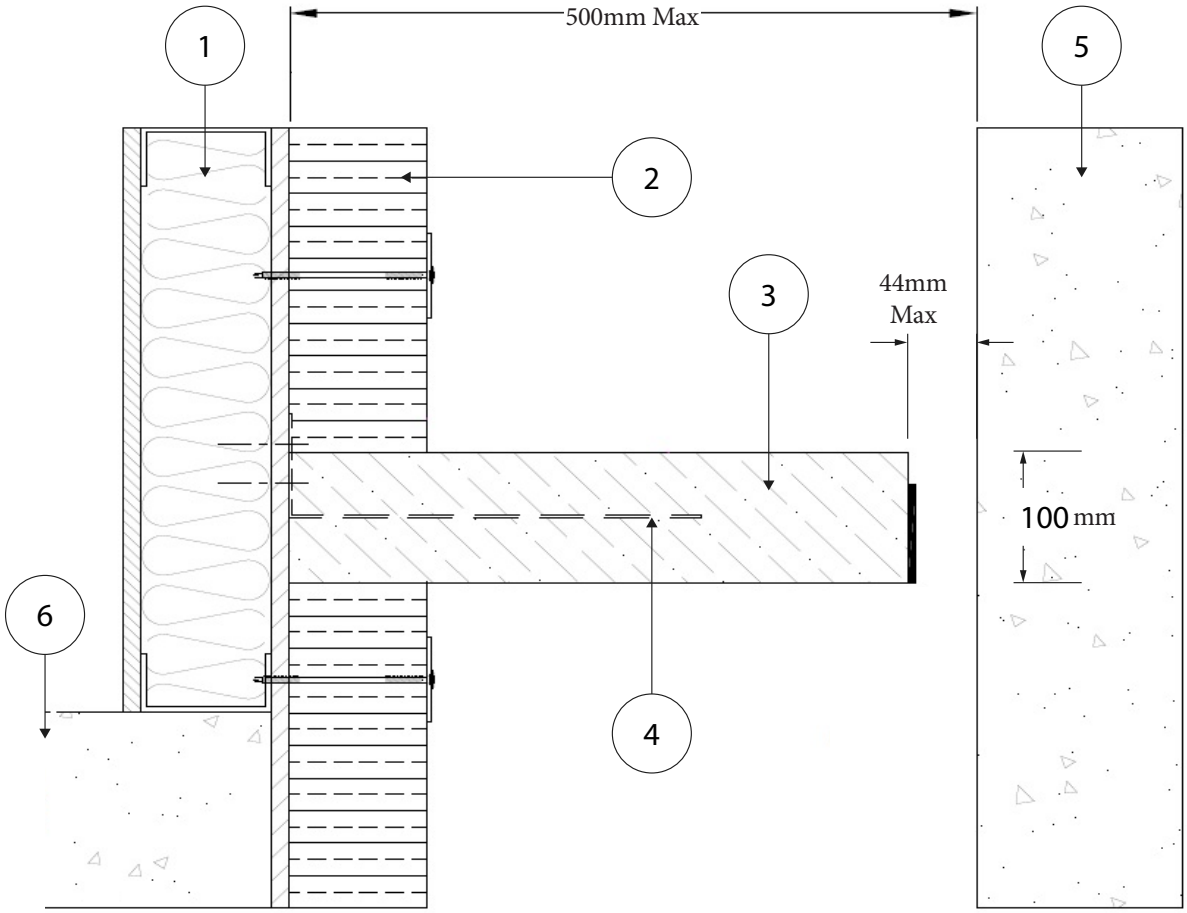
PFC COROFIL
PASSIVE FIRE PROTECTION SOLUTIONS

Units 3 & 4, King George Trading Estate, Davis Road, Chessington, Surrey KT9 1TT

Phone: 020 8391 0533 **Web:** www.pfc-corofil.com **Email:** tech@pfc-corofil.com

Drawing Title: COSB44 (1406) Masonry	**Date:** 24/02/2023
Drawing Number: COSB44-1406-M-300	**Checked by: SE/DQ**
Scale: Not to scale	**Revision: 1**

PFC COROFIL OPEN STATE BARRIER COSB44 (1406) INSTALLED WITH SFS INNER SUBSTRATE [UP TO 500mm CAVITY WIDTH - 44mm AIR GAP]



PFC Corofil Open State Barrier COSB 44 (1406) to be installed in line with the product installation instructions. See Technical Data Sheet TDSCOSB 44 for full details.

1. SFS System with Gypsum Board
2. PIR / Phenolic / Stone Wool cavity insulation
3. PFC Corofil Open State Barrier COSB 44 (1406)
4. PFC Corofil High Performance (HP) Bracket
5. Masonry outer substrate
6. Concrete slab

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Units 3 & 4, King George Trading Estate, Davis Road, Chessington, Surrey KT9 1TT

Phone: 020 8391 0533 **Web:** www.pfc-corofil.com **Email:** tech@pfc-corofil.com

Drawing Title: COSB44 (1406) SFS	**Date:** 24/02/2023
Drawing Number: COSB44-1406-SFS-500	**Checked by: SE/DQ**
Scale: Not to scale	**Revision: 1**

PENETRATION & LINEAR GAP SEALS SCHEME SDP13

Certificate number: IFCC1583

Certificate only valid if verified on website - www.ifccertification.com

This is a product certificate to certify that

Pre-Formed Components Ltd trading as

PFC COROFIL

Units 3 & 4
King George Trading Estate
Davis Road
Surrey
KT9 1TT
Telephone no. +44 (0) 208 391 0533
www.pfc-corofil.com

Who manufacture the following systems:

PFC Corofil COSB 44 Open State Cavity Barriers

have satisfied the requirements of the above scheme. This includes the testing of products to **BS EN 1363-1:2012 in conjunction with ASFP TGD19** the inspection of their Factory Production Control and continuing surveillance audits and testing of samples of products taken from production. The product specification and reports are detailed below.

Test Report: WF403555

First Issued: 04 Aug 2020
Revised: 09 June 2021
Valid to: 03 Aug 2025
Issue status: 2

UKAS PRODUCT CERTIFICATION
175

Ian Woodhouse
Director of Certification

IFC Certification Ltd
20 Park Street, Princes Risborough, Buckinghamshire. England HP27 9AH
Tel: +44 (0)1844 275500 Fax: +(0)1844 274002 E-mail: info@ifccertification.com Web: www.ifccertification.com
Registered No: 4777898 England

PFC COROFIL
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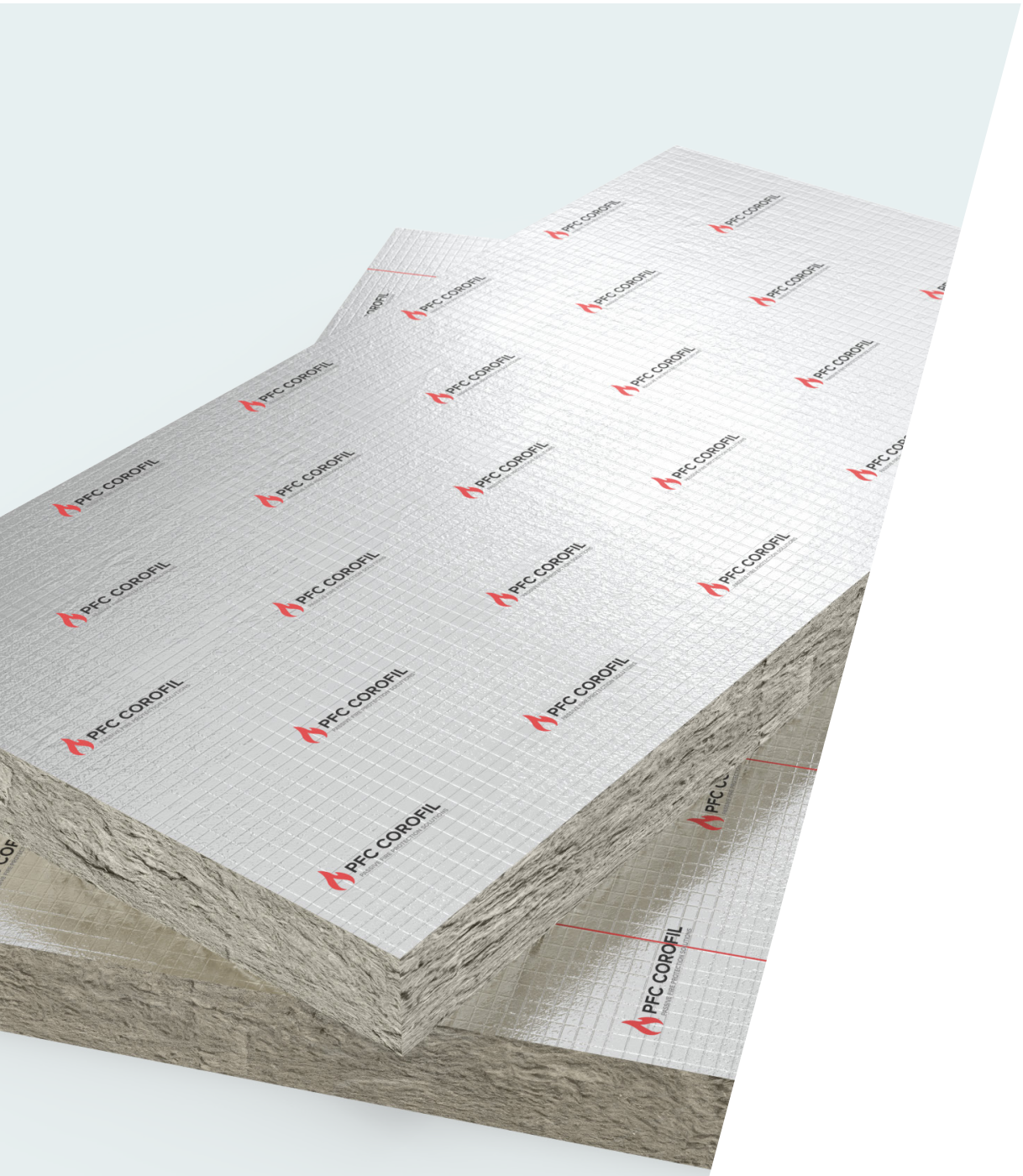
Notes

Product Information



PFC COROFIL
PASSIVE FIRE PROTECTION SOLUTIONS

NBS ASFP

PFC Corofil Cavity Fire Stop CCFS Slabs

Applications

PFC Corofil Cavity Fire Stop CCFS Slabs can be cut to size on site for installation within building cavities between the façade and the inner structure.

PFC Corofil Cavity Fire Stop CCFS Slabs are cut to suit the dimension of the cavity to be fire stopped and are suitable for installation against SFS with a calcium silicate fibre cement board, and masonry substrates in both horizontal and vertical orientations in cavities up to 600mm wide, and for installation in a masonry support system in cavities up to 450mm wide.

All tested cavity widths and substrate specifications along with their fire resistance performance can be found on the technical data sheet TDSCCFS.

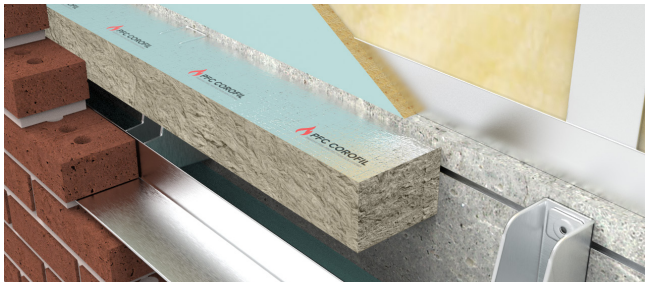
PFC Corofil Cavity Fire Stop CCFS Slabs may be cut and installed horizontally at a slab edge and are suitable for cavity widths between 10mm and 595mm.

Cut sections of PFC Corofil Cavity Fire Stop CCFS Slab may also be installed vertically against a rigid wall to suit cavity widths between 10mm and 600mm.

Applications provide up to 120 minutes fire integrity and insulation performance.

See technical data sheet TDSCCFS for full details.

PFC Corofil Cavity Fire Stop CCFS Slabs may be cut and installed horizontally against a masonry support system fixed to a rigid floor slab and are suitable for cavity widths up to 450mm.



Applications provide up to 120 minutes fire integrity and insulation performance.

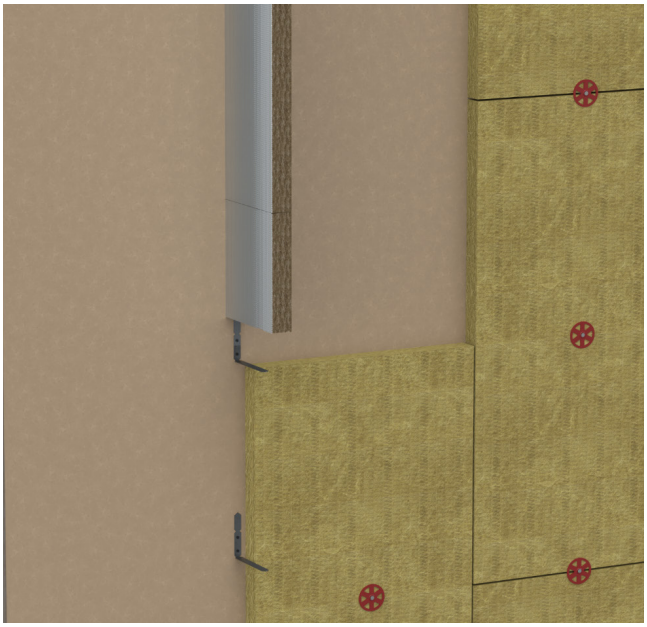
See technical data sheet TDSCCFS for full details.

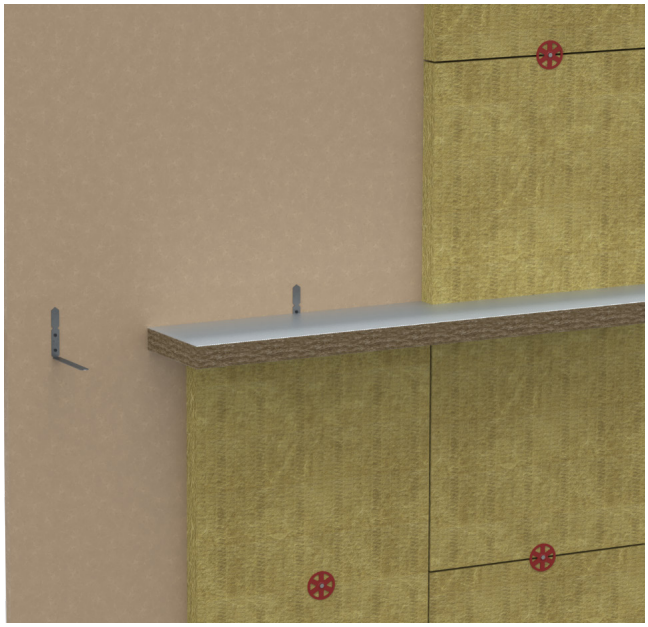
PFC COROFIL
PASSIVE FIRE PROTECTION SOLUTIONS

PFC Corofil Cavity Fire Stop CCFS Slabs may be cut and installed horizontally and vertically against an SFS system with calcium silicate cement fibre board and are suitable for cavity widths between 10mm and 600mm. Applications provide up to 120 minutes fire integrity performance.
See technical data sheet TDSCCFS for full details.

All tested cavity widths and substrate specifications along with their fire resistance performance can be found on the technical data sheet TDSCCFS.

If the data sheet is not with this information document please download a copy from www.pfc-corofil.com or contact tech@pfc-corofil.com.





Product Information

PFC COROFIL
PASSIVE FIRE PROTECTION SOLUTIONS

PFC Corofil
Cavity Fire Stop
CCFS

Classified to EN13501-2
3rd Party certification IFCC1667
UL-EU-01231-CPR

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 and will provide up to 120 minutes fire integrity and insulation performance.

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.

Intended Use

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.

This data sheet shows the only applications the product has been tested in. Please ensure the product has been tested in and is suitable for your application (see PFC Corofil terms and conditions 13.1.1).

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 and masonry substrates.
Can be installed in a masonry support system.
Provides up to 120 minutes fire integrity and insulation performance.

Installation Instructions

Cavity widths up to 200mm wide (minimum thickness of CCFS 100mm)

Ensure surfaces are clean, dry and free from dirt, dust, mortar and other contaminants.

Ensure the opening to be filled has been tested with and is suitable for the product being installed.

Cut back any insulation fixed to the inner substrate prior to installation of the PFC Corofil Cavity Fire Stop.

The PFC Corofil Cavity Fire Stop should be installed with a minimum 5mm compression.

Any cutting of the PFC Corofil Cavity Fire Stop on site to suit tolerances, shall be done accurately and kept to a minimum. Ensure that the minimum 5mm extra for the compression is maintained.

Compress the PFC Corofil Cavity Fire Stop and push into the cavity.

When extending the length of the PFC Corofil Cavity Fire Stop, ensure the adjacent lengths have their joints tightly abutted together and are aligned flush with each other to give the appearance of a continuous strip with no gaps.

Fill any gaps up to 5mm wide with PFC Corofil Acoustic Intumescent Sealant to a minimum depth of 10mm.

Cavity widths 201mm to 600mm wide (minimum thickness of CCFS 82mm)

Ensure surfaces are clean, dry and free from dirt, dust, mortar and other contaminants.

Ensure the opening to be filled has been tested with and is suitable for the product being installed.

Cut back any insulation fixed to the inner substrate prior to installation of the PFC Corofil Cavity Fire Stop.

The PFC Corofil Cavity Fire Stop should be installed with a minimum 5mm compression.

Any cutting of the PFC Corofil Cavity Fire Stop on site to suit tolerances, shall be done accurately and kept to a minimum. Ensure that the minimum 5mm extra for the compression is maintained.

For masonry applications, fix PFC Corofil Multipurpose Brackets to the substrate using 1 no. non-combustible steel screw minimum 4mm x 40mm long (supplied by others) and position the leg of the brackets to the midpoint of the PFC Corofil Cavity Fire Stop. The brackets should be fixed 250mm from each end of each individual section of barrier at maximum 500mm centres.

For calcium silicate fibre cement board applications, fix PFC Corofil Multipurpose Brackets to the substrate using 1 no. 6mm x 32mm coarse threaded steel screw suitable for the board (supplied by others) and position the leg of the brackets to the midpoint of the PFC Corofil Cavity Fire Stop. The brackets should be fixed 250mm from each end of each individual section of barrier at maximum 500mm centres.

When fixing the brackets to any other substrate, please contact a fixing supplier for advice on the correct fixings.

When cutting lengths to fit at the end of a run, install one bracket centrally in lengths up to 300mm, for lengths 301mm to 500mm 2 brackets should still be used distanced equally from each end.

Push the PFC Corofil Cavity Fire Stop onto the leg of the bracket so it is spiked into the centre along the length and compress into the cavity. There should be at least 25mm between the end of the bracket and the outer face of the barrier.

Fill any gaps up to 5mm with PFC Corofil Acoustic Intumescent Sealant to a minimum depth of 10mm.

Installation Instructions

Masonry Support System (minimum thickness of CCFS 82mm)

Ensure surfaces are clean, dry and free from dirt, dust, mortar and other contaminants.

Ensure the opening to be filled has been tested with and is suitable for the product being installed.

Cut back any insulation fixed to the inner substrate prior to installation of the PFC Corofil Cavity Fire Stop.

The PFC Corofil Cavity Fire Stop should be installed with a minimum 5mm compression.

Any cutting of the PFC Corofil Cavity Fire Stop on site to suit tolerances, shall be done accurately and kept to a minimum. Ensure that the minimum 5mm extra for the compression is maintained.

Ensure there is a minimum of 28mm from the top of the masonry support bracket to the top of the floor slab.

Mark where the brackets meet the Cavity Fire Stop and cut a notch into the Cavity Fire Stop.

Compress the Cavity Fire Stop and push into the cavity, ensuring the top of the Cavity Fire Stop sits flush with the top surface of the floor slab.

When extending the length of the Cavity Fire Stop , ensure the adjacent lengths have their joints tightly abutted together and are aligned flush with each other to give the appearance of a continuous strip with no gaps.

Fill any gaps up to 5mm with PFC Corofil Acoustic Intumescent Sealant to a minimum depth of 10mm.

Substrates

Rigid walls: Minimum 100mm thick and comprised of concrete, aerated concrete or masonry, with a minimum density of 650kg/m^3.

Rigid Floors: Minimum 150mm thick and comprised of concrete, aerated concrete or masonry, with a minimum density of 650kg/m^3.

SFS system: 135mm overall thickness comprising, 90mm Metsec C stud clad internally with 2 x 15mm Knauf Fire Panel, clad externally with 1 x 12mm RCM Y-Wall panel and 75mm Rockwool Duo slab.

Masonry support system: Ancon Masonry Support System MDC/P to suit a 200mm cavity.

Terminology

Fire resistance classes:

E = Integrity. The length of time it takes for the fire to pass to the non fire side.

I = Insulation. The length of time it takes for the heat of the fire to pass to the non fire side.

Rigid Floors minimum thickness 150mm

PFC Corofil Cavity Fire Stop installed against Rigid Floors minimum 150mm thick.				
Overall Cavity width (mm)	Minimum thickness of Cavity Fire Stop (mm)	Orientation	Brackets required	Fire resistance performance
10 – 100 With or without integral DPC	100	Horizontal	No	EI120
101 - 200 With or without integral DPC	100		No	E120 EI90
201 - 450 With or without integral DPC	82		Yes	E120 EI30
451 – 595 With or without integral DPC			Yes	E60 EI30

Rigid Walls minimum thickness 100mm

PFC Corofil Cavity Fire Stop installed against Rigid walls minimum 100mm thick.				
Overall Cavity width (mm)	Minimum thickness of Cavity Fire Stop (mm)	Orientation	Brackets required	Fire resistance performance
10 – 200 with or without integral DPC	100	Vertical	No	EI120
201 - 600 with or without integral DPC	82		Yes	E120 EI30

Installation Instructions

SFS system
with calcium silicate cement fibre board

PFC Corofil Cavity Fire Stop installed against SFS system to masonry outer substrate.				
Overall Cavity width (mm)	Minimum thickness of Cavity Fire Stop (mm)	Orientation	Brackets required	Fire resistance performance
10 – 595	82	Horizontal	Yes	E120 EI60
10 - 600	82	Vertical	Yes	E120 EI30

Performance Data

Rigid Floors minimum thickness 150mm
with masonry support system

PFC Corofil Cavity Fire Stop installed horizontally against an Ancon MDC/P Masonry Support System fixed to a rigid floor slab minimum 150mm thick.				
Overall Cavity width (mm)	Minimum thickness of Cavity Fire Stop (mm)	Minimum gap from top of Masonry support bracket to top of floor slab (mm)	Brackets required	Fire resistance performance
10 - 200 with or without integral DPC	82	28	No	EI120
201 - 450 with or without integral DPC			Yes	E120 EI30

'CCFS Plain, Tested to EN1366-4'

PFC Corofil Cavity Firestop installed (CCFS) Plain installed in a masonry substrate Rigid walls minimum thickness 100mm Rigid floors minimum thickness 150mm					
Overall Cavity Width (mm)	Minimum thickness of Cavity Fire Stop (mm)	Orientation	Brackets required	Fire resistance performance	
				Integrity (minutes)	Insulation (minutes)
201 - 300	100	Horizontal	Yes	120	120
		Vertical			
Please note: The products and fire resistance performances listed in this table are not included in the classification					

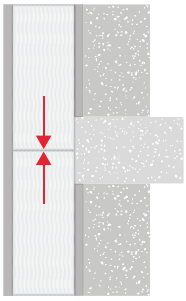
Installation Instructions

Considerations before installation

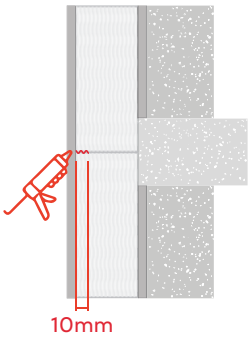
- Ensure surfaces are clean, dry and free from dirt, dust, mortar and other contaminants.
- Ensure the opening to be filled has been tested with and is suitable for the product being installed.
- Cut back any insulation fixed to the inner substrate prior to installation of the PFC Corofil Cavity Fire Stop.
- The PFC Corofil Cavity Fire Stop should be installed with a minimum 5mm compression.
- Any cutting of the PFC Corofil Cavity Fire Stop on site to suit tolerances, shall be done accurately and kept to a minimum. Ensure that the minimum 5mm extra for the compression is maintained.

Cavity widths up to 200mm wide (minimum thickness of CCFS 100mm)

Compress the PFC Corofil Cavity Fire Stop and push into the cavity. When extending the length of the Cavity Fire Stop, ensure the adjacent lengths have their joints tightly abutted together and are aligned flush with each other to give the appearance of a continuous strip with no gaps.

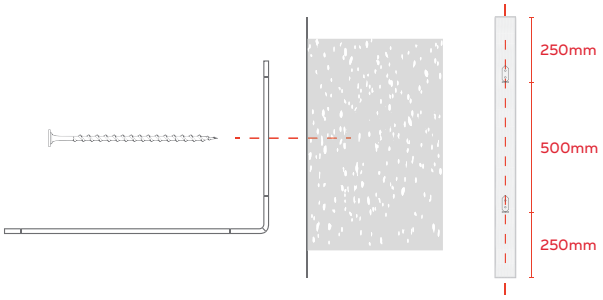


Fill any gaps up to 5mm wide with PFC Corofil Acoustic Intumescent Sealant to a minimum depth of 10mm.

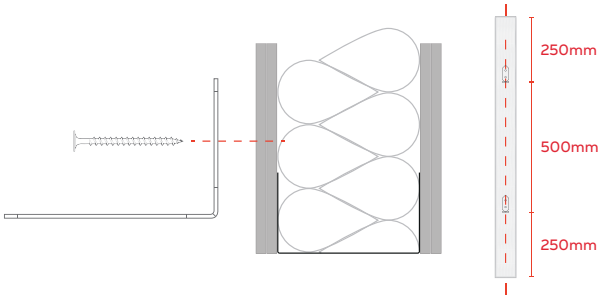


Cavity widths 201mm to 600mm wide (minimum thickness of CCFS 82mm)

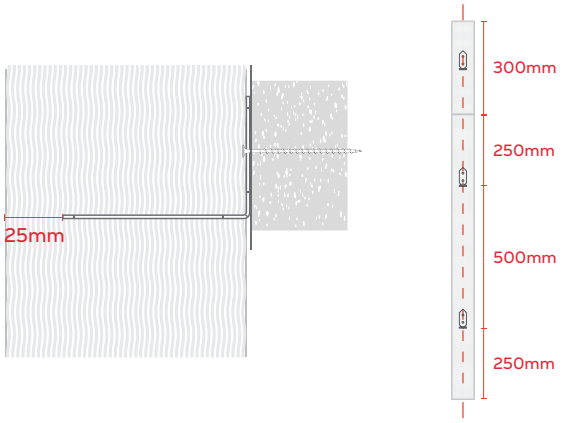
For masonry applications, fix PFC Corofil Multipurpose Brackets to the substrate using 1 no. non combustible steel screw minimum 4mm ø x 40mm long (supplied by others) and position the leg of the brackets to the midpoint of the Cavity Fire Stop. The brackets should be fixed 250mm from each end of each individual section of barrier at maximum 500mm centres.



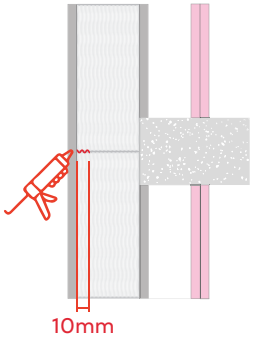
For calcium silicate fibre cement board applications, fix PFC Corofil Multipurpose Brackets to the substrate using 1 no. 6mm ø x 32mm coarse threaded steel screw suitable for the board (supplied by others) and position the leg of the brackets to the midpoint of the Cavity Fire Stop. The brackets should be fixed 250mm from each end of each individual section of barrier at maximum 500mm centres. When fixing the brackets to any other substrate, please contact a fixing supplier for advice on the correct fixings.



When cutting lengths to fit at the end of a run, install one bracket centrally in lengths up to 300mm, for lengths 301mm to 500mm 2 brackets should still be used distanced equally from each end. Push the Cavity Fire Stop onto the leg of the bracket so it is spiked into the centre along the length and compress into the cavity. There should be at least 25mm between the end of the bracket and the outer face of the barrier.



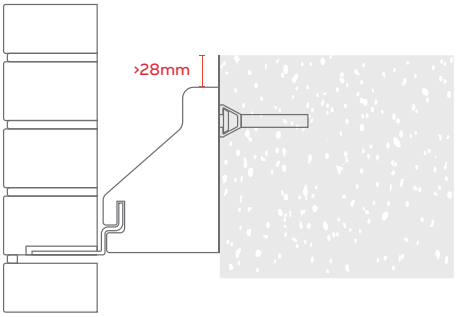
Fill any gaps up to 5mm with PFC Corofil Acoustic Intumescent Sealant to a minimum depth of 10mm.



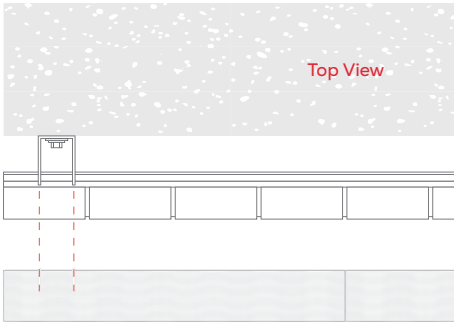
Installation Instructions

Masonry Support System (minimum thickness of CCFS 82mm)

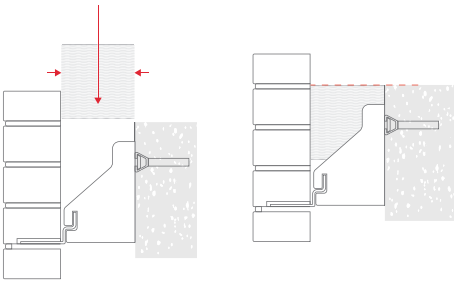
Ensure there is a minimum of 28mm from the top of the masonry support bracket to the top of the floor slab.



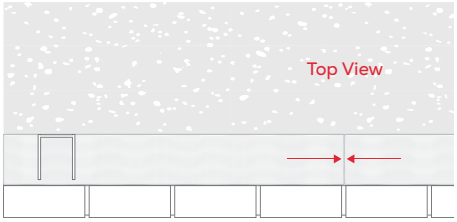
Mark where the brackets meet the Cavity Fire Stop and cut a notch into the Cavity Fire Stop.



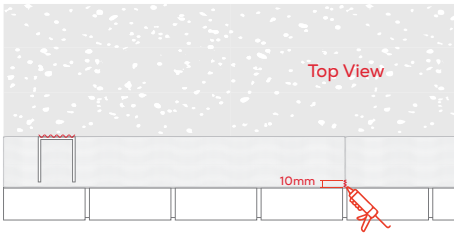
Compress the Cavity Fire Stop and push into the cavity, ensuring the top of the Cavity Fire Stop sits flush with the top surface of the floor slab.



When extending the length of the Cavity Fire Stop, ensure the adjacent lengths have their joints tightly abutted together and are aligned flush with each other to give the appearance of a continuous strip with no gaps.

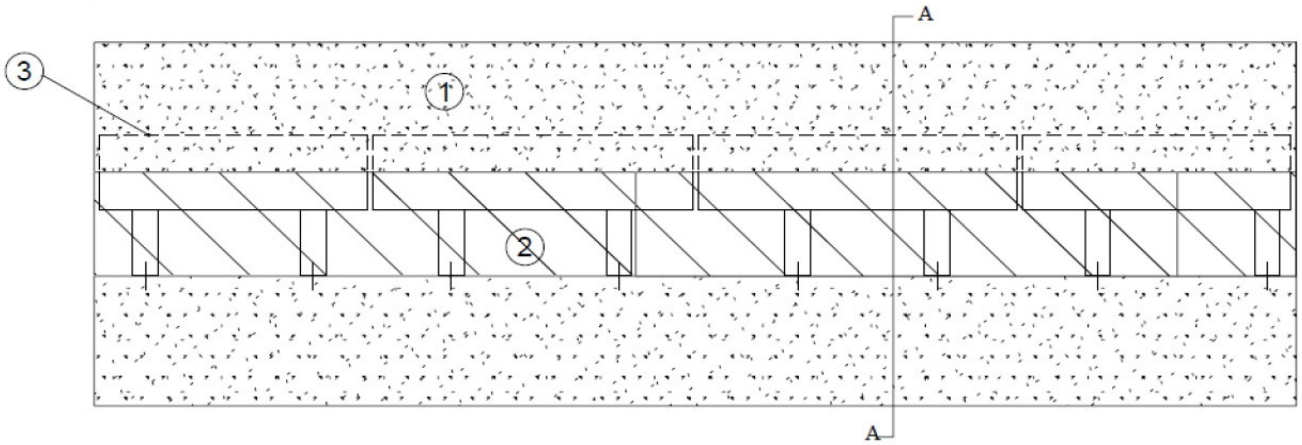


Fill any gaps up to 5mm with PFC Corofil Acoustic Intumescent Sealant to a minimum depth of 10mm.

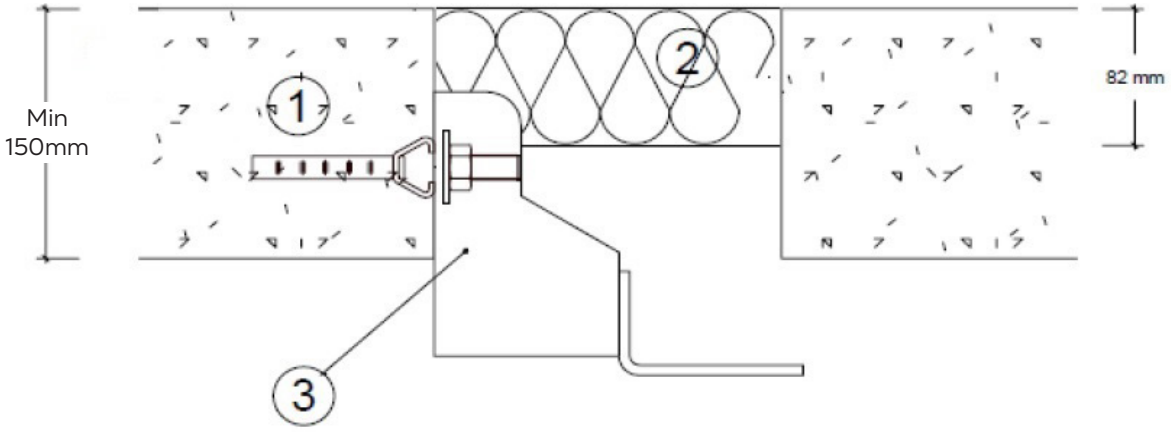


PFC COROFIL CAVITY FIRE STOP CCFS
INSTALLED HORIZONTALLY WITH MASONRY SUPPORT SYSTEM
[82mm DEEP STRIP 10mm - 450mm GAP WIDTH]

Top view:



Section view (A-A):



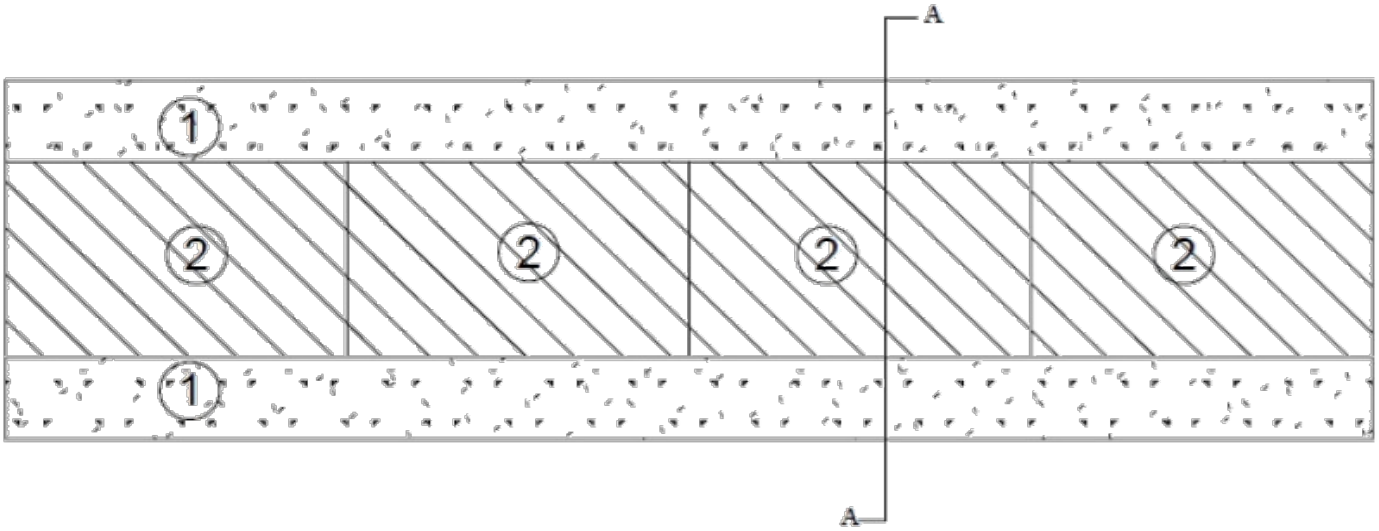
PFC Corofil Cavity Fire Stop CCFS to be installed in line with the product installation instructions. See Technical Data Sheet TDSCCFS for full details.

1. 150mm thick lightweight concrete floor
2. Corofil Cavity Fire Stop CCFS
3. Ancon masonry MDC/P support system

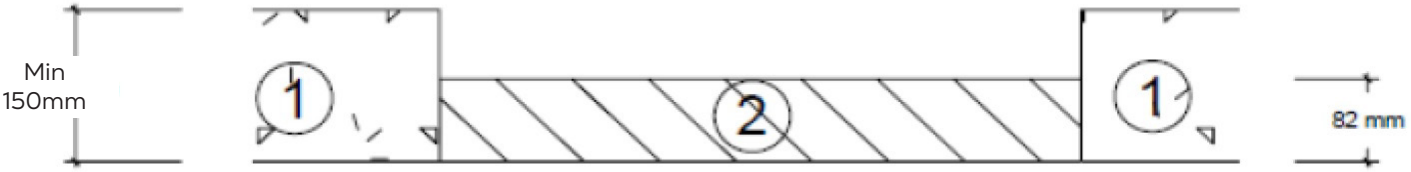
PFC COROFIL PASSIVE FIRE PROTECTION SOLUTIONS	
Units 3 & 4, King George Trading Estate, Davis Road, Chessington, Surrey KT9 1TT	
Phone: 020 8391 0533 **Web:** www.pfc-corofil.com **Email:** tech@pfc-corofil.com	
Drawing Title: CCFS Horizontal MSA	**Date:** 27/02/2023
Drawing Number: CCFS-H-MSA-450	**Checked by:** SE/DQ
Scale: Not to scale	**Revision:** 1

PFC COROFIL CAVITY FIRE STOP CCFS INSTALLED HORIZONTALLY IN RIGID FLOOR [82mm DEEP STRIP 10mm - 595mm GAP WIDTH]

Top view:



Section view (A-A):



PFC Corofil Cavity Fire Stop CCFS to be installed in line with the product installation instructions. See Technical Data Sheet TDSCCFS for full details.

1 Minimum 150mm thick lightweight aggregate floor

2 PFC Corofil Cavity Fire Stop CCFS

PFC COROFIL
PASSIVE FIRE PROTECTION SOLUTIONS

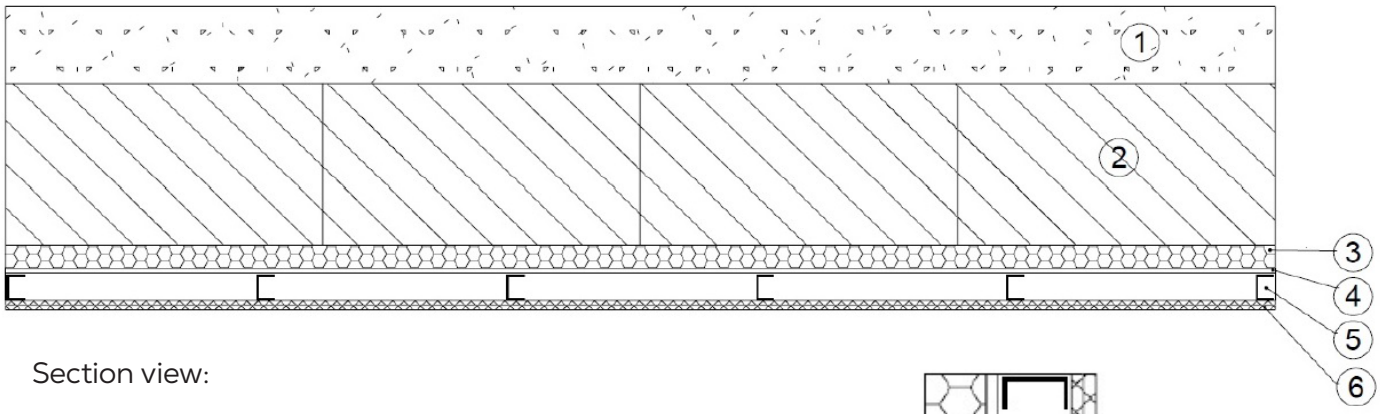
Units 3 & 4, King George Trading Estate, Davis Road, Chessington, Surrey KT9 1TT

Phone: 020 8391 0533 **Web:** www.pfc-corofil.com **Email:** tech@pfc-corofil.com

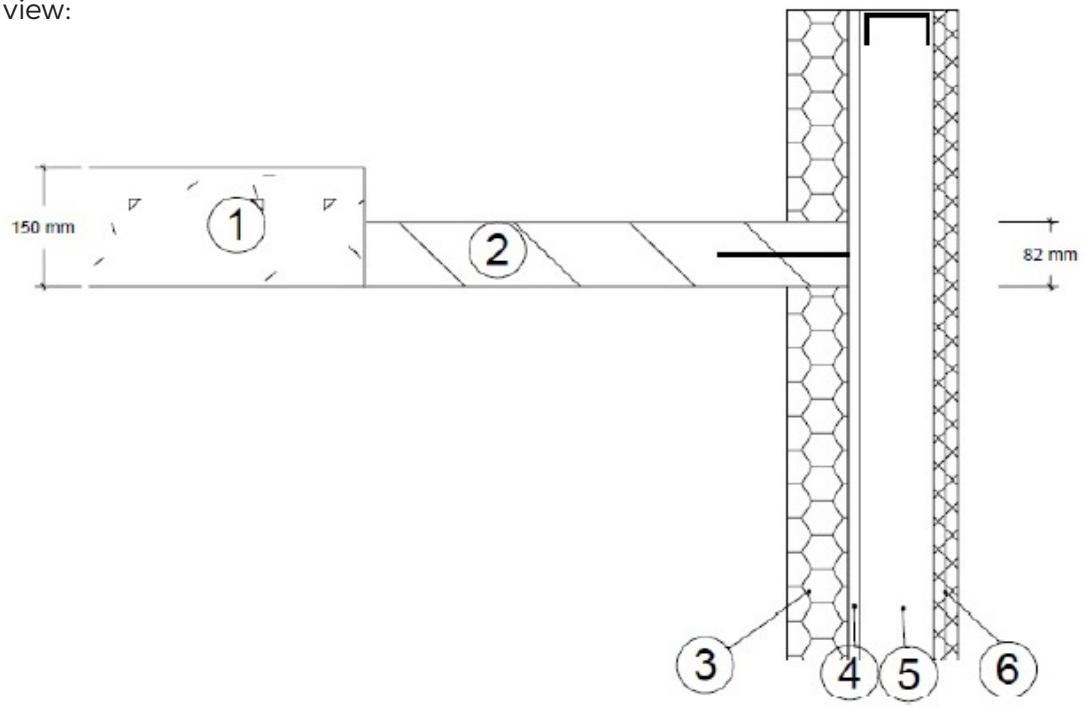
Drawing Title: CCFS Horizontal Rigid Floor	**Date:** 27/02/2023
Drawing Number: CCFS-H-RF-595	**Checked by: SE/DQ**
Scale: Not to scale	**Revision: 1**

PFC COROFIL CAVITY FIRE STOP CCFS
INSTALLED HORIZONTALLY WITH SFS SYSTEM
[82mm DEEP STRIP 10mm - 595mm GAP WIDTH]

Top view:



Section view:



PFC Corofil Cavity Fire Stop CCFS to be installed in line with the product installation instructions. See Technical Data Sheet TDSCCFS for full details.

1. Minimum 150mm lightweight aggregate floor
2. PFC Corofil Cavity Fire Stop CCFS
3. Minimum 75mm Rockwool Duo Slab
4. 1 x 12 mm RCM Y-Wall
5. 90 mm Metsec C stud
6. 2 x 15mm Knauf Fire Panel

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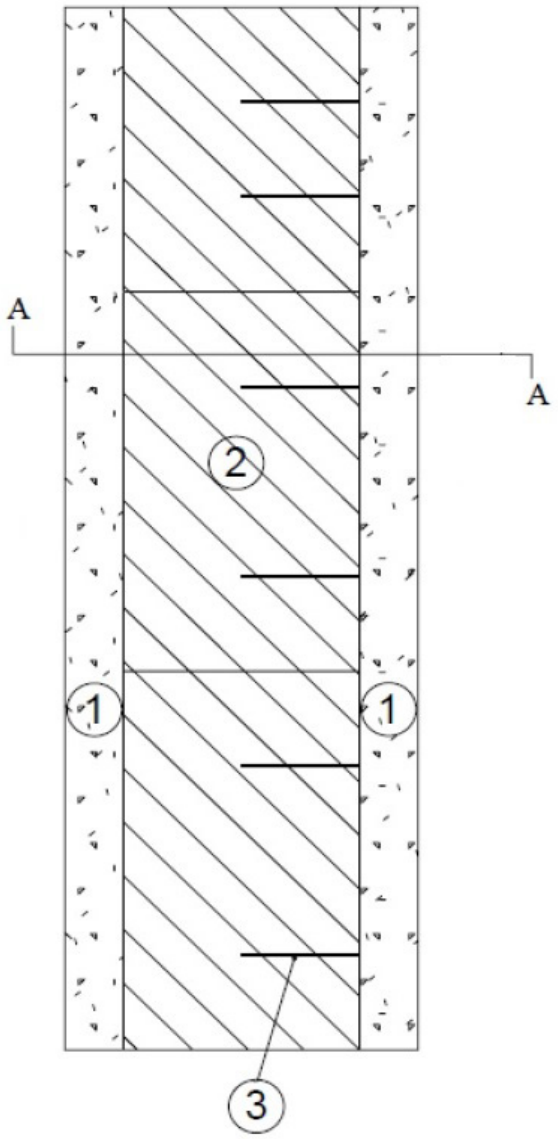
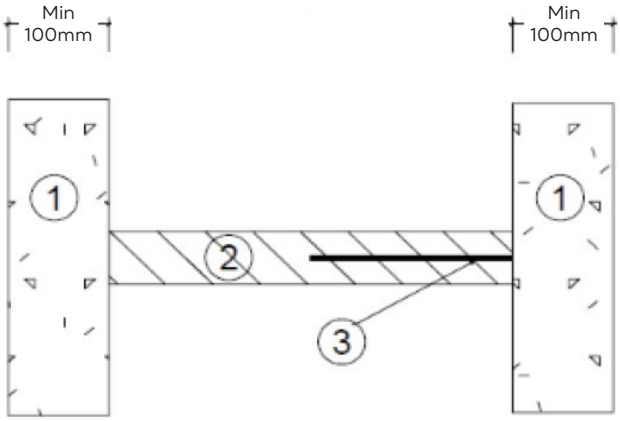
Drawing Title: CCFS Horizontal SFS	**Date:** 27/02/2023
Drawing Number: CCFS-H-SFS-595	**Checked by:** SE/DQ
Scale: Not to scale	**Revision:** 1

PFC COROFIL CAVITY FIRE STOP CCFS INSTALLED VERTICALLY IN RIGID WALL [82mm DEEP STRIP 10mm - 600mm GAP WIDTH]

Front view:



Section view:



PFC Corofil Cavity Fire Stop CCFS to be installed in line with the product installation instructions. See Technical Data Sheet TDSCCFS for full details.

1. Minimum 100mm lightweight concrete leaf
2. PFC Corofil Cavity Fire Stop CCFS
3. PFC Corofil Multipurpose (MP) Bracket

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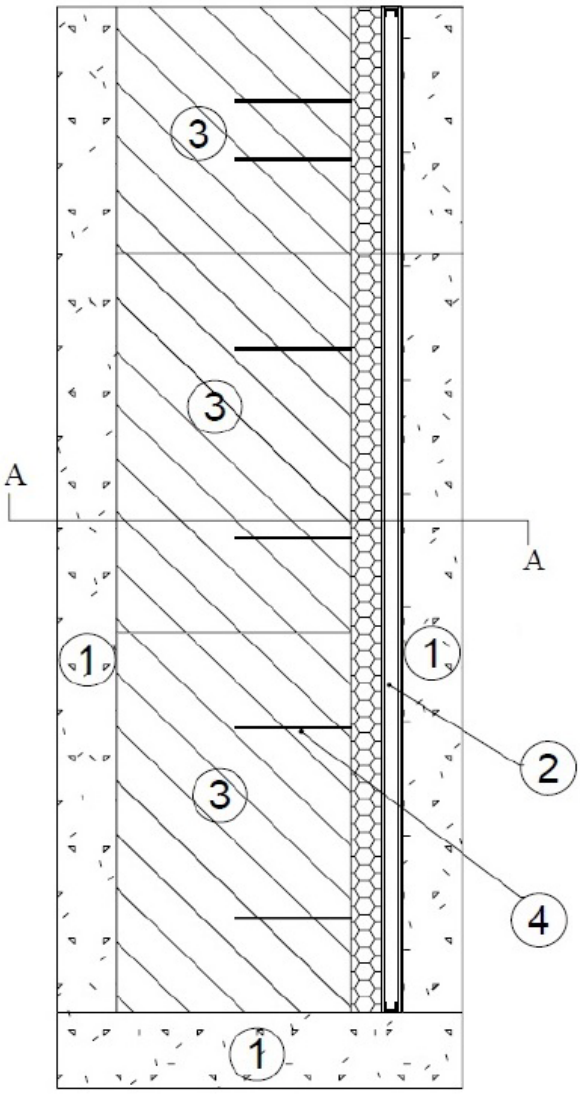
Phone: 020 8391 0533 **Web:** www.pfc-corofil.com **Email:** tech@pfc-corofil.com

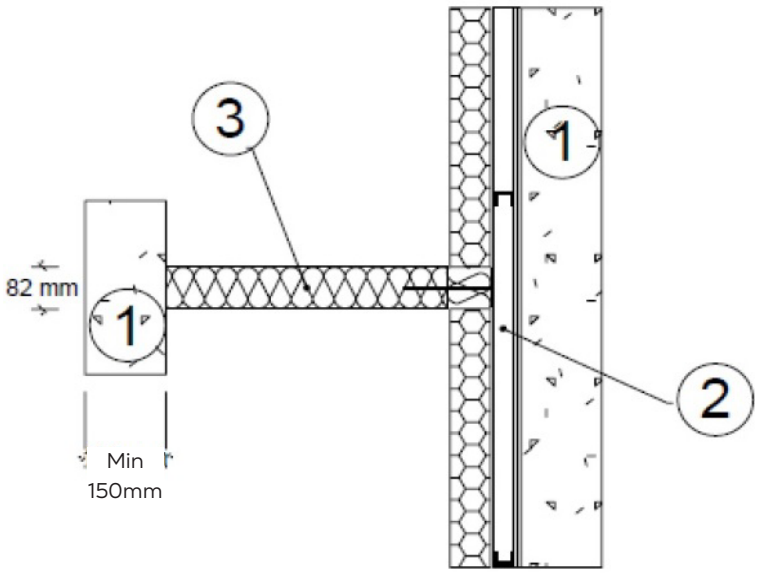
Drawing Title: CCFS Vertical Rigid Wall	**Date:** 27/02/2023
Drawing Number: CCFS-V-RW-600	**Checked by:** SE/DQ
Scale: Not to scale	**Revision:** 1

PFC COROFIL CAVITY FIRE STOP CCFS INSTALLED VERTICALLY WITH SFS SYSTEM [82mm DEEP STRIP 10mm - 600mm GAP WIDTH]

Front view:



Section view (A-A):



PFC Corofil Cavity Fire Stop CCFS to be installed in line with the product installation instructions. See Technical Data Sheet TDSCCFS for full details.

1. Minimum 100mm lightweight concrete leaf
2. SFS system 135mm overall thickness, comprising 90mm Metsec C stud, clad internally with 2 x 15mm Knauf Fire Panel, clad externally with 1 x 12mm RCM Y-Wall and minimum 75mm Rockwool Duo Slab
3. PFC Corofil Cavity Fire Stop CCFS
4. PFC Corofil Multipurpose (MP) Bracket

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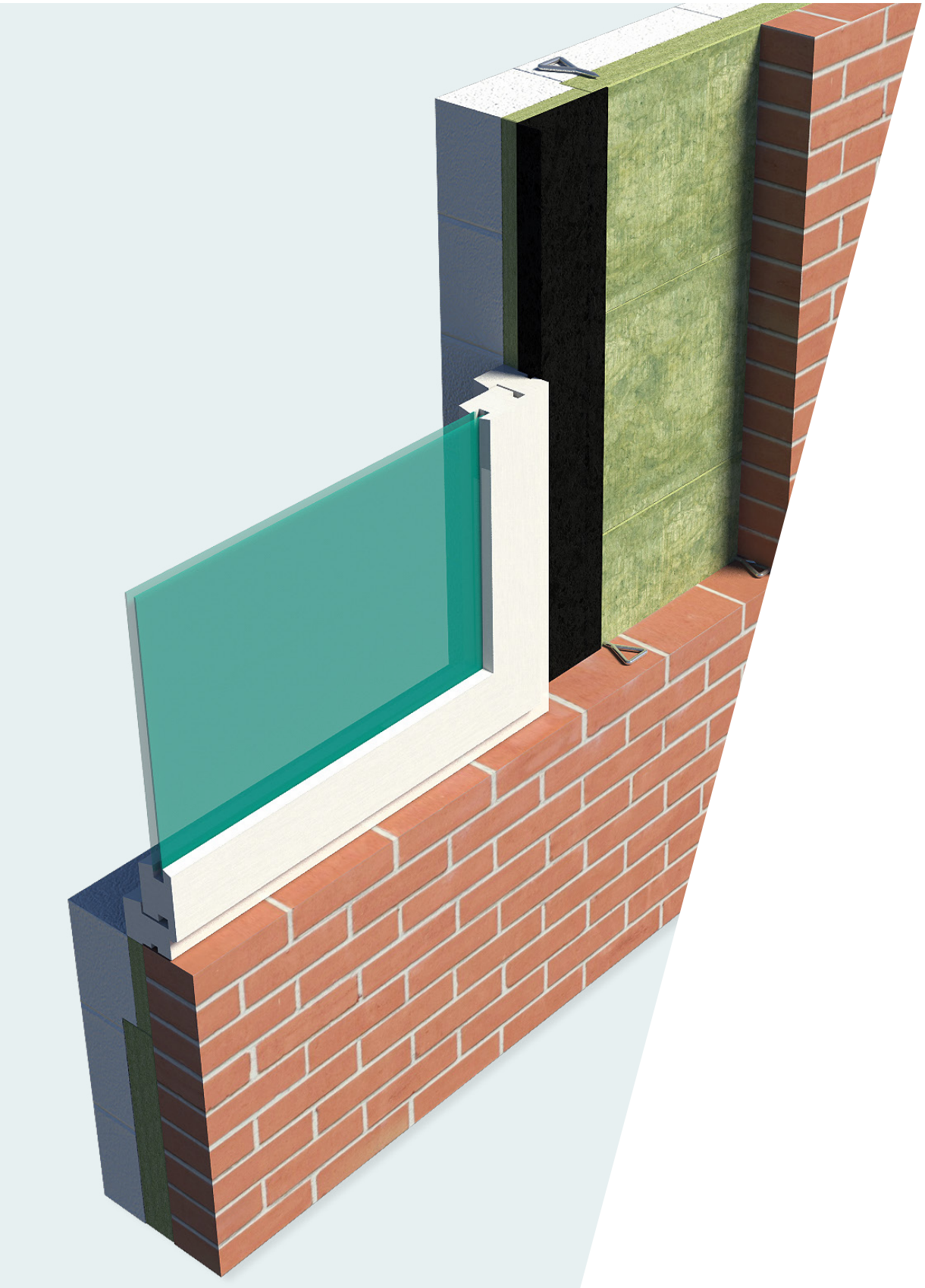
Phone: 020 8391 0533 **Web:** www.pfc-corofil.com **Email:** tech@pfc-corofil.com

Drawing Title: CCFS Vertical SFS	**Date:** 27/02/2023
Drawing Number: CCFS-V-SFS-600	**Checked by:** SE/DQ
Scale: Not to scale	**Revision:** 1

Product Information



PFC COROFIL
PASSIVE FIRE PROTECTION SOLUTIONS

PFC Corofil
Cavity Fire Stop with DPC
CCFS with DPC

Classified to EN13501-2
3rd Party certification IFCC1667
UL-EU-01231-CPR

Technical Description of Product

PFC Corofil Cavity Fire Stop with DPC is a stonewool product with an integral polythene DPC adhered to its outer face.

PFC Corofil Cavity Fire Stop with DPC has been tested to EN1366-4 and will provide up to 120 minutes fire integrity and insulation performance.

Intended Use

PFC Corofil Cavity Fire Stop with DPC is designed and tested to maintain the fire resistance performance within a cavity where the party wall intersects with the outer face of the building and in the reveal around doors and windows.
This data sheet shows the only applications the product has been tested in. Please ensure the product has been tested in and is suitable for your application (see PFC Corofil terms and conditions 13.1.1).

Key Points

Tested to EN1366-4
Suitable for cavities up to 600mm
Provides up to 120 minutes fire integrity and insulation performance (please see tables from page 5).

Cavity widths up to 200mm wide (minimum thickness of CCFS 100mm)

- Ensure surfaces are clean, dry and free from dirt, dust, mortar and other contaminants.
- Ensure the opening to be filled has been tested with and is suitable for the product being installed.
- Cut back any insulation fixed to the inner substrate prior to installation of the PFC Corofil Cavity Fire Stop with DPC
- The PFC Corofil Cavity Fire Stop with DPC should be installed with a minimum 5mm compression.
- Any cutting of the PFC Corofil Cavity Fire Stop with DPC on site to suit tolerances, shall be done accurately and kept to a minimum. Ensure that the minimum 5mm extra for the compression is maintained and that the DPC is not affected by the cutting.
- Compress the PFC Corofil Cavity Fire Stop with DPC and push into the cavity ensuring the DPC faces towards the external face of the building.
- The PFC Corofil Cavity Fire Stop with DPC should be installed with an equal overlap either side of the party wall.
- When extending the length of the PFC Corofil Cavity Fire Stop with DPC, ensure the adjacent lengths have their joints tightly abutted together and are aligned flush with each other to give the appearance of a continuous strip with no gaps.
- Fill any gaps up to 5mm wide with PFC Corofil Acoustic Intumescent Sealant to a minimum depth of 10mm.

Cavity widths 201mm to 600mm wide (minimum thickness of CCFS 82mm)

- Ensure surfaces are clean, dry and free from dirt, dust, mortar and other contaminants.
- Ensure the opening to be filled has been tested with and is suitable for the product being installed.
- Cut back any insulation fixed to the inner substrate prior to installation of the PFC Corofil Cavity Fire Stop with DPC.
- The PFC Corofil Cavity Fire Stop with DPC should be installed with a minimum 5mm compression.
- Any cutting of the PFC Corofil Cavity Fire Stop with DPC on site to suit tolerances, shall be done accurately and kept to a minimum. Ensure that the minimum 5mm extra for the compression is maintained and that the DPC is not affected by the cutting.
- For masonry applications, fix PFC Corofil Multipurpose Brackets to the substrate using 1 no. non-combustible steel screw minimum 4mm ø x 40mm long (supplied by others) and position the leg of the brackets to the midpoint of the PFC Corofil Cavity Fire Stop with DPC. The brackets should be fixed 250mm from each end of each individual section of barrier at maximum 500mm centres.
- When cutting lengths to fit at the end of a run, install one bracket centrally in lengths up to 300mm, for lengths 301mm to 500mm 2 brackets should still be used distanced equally from each end.
- Push the PFC Corofil Cavity Fire Stop with DPC onto the leg of the bracket so it is spiked into the centre along the length and compress into the cavity. There should be at least 25mm between the end of the bracket and the outer face of the barrier.
- Fill any gaps up to 5mm with PFC Corofil Acoustic Intumescent Sealant to a minimum depth of 10mm.

Installation Instructions

Masonry Support System (minimum thickness of CCFS 82mm)

- Ensure surfaces are clean, dry and free from dirt, dust, mortar and other contaminants.
- Ensure the opening to be filled has been tested with and is suitable for the product being installed.
- Cut back any insulation fixed to the inner substrate prior to installation of the PFC Corofil Cavity Fire Stop with DPC.
- The PFC Corofil Cavity Fire Stop with DPC should be installed with a minimum 5mm compression.
- Any cutting of the PFC Corofil Cavity Fire Stop with DPC on site to suit tolerances, shall be done accurately and kept to a minimum. Ensure that the minimum 5mm extra for the compression is maintained and that the DPC is not affected by the cutting.
- Ensure there is a minimum of 28mm from the top of the masonry support bracket to the top of the floor slab.
- Mark where the brackets meet the cavity fire stop and cut a notch into the PFC Corofil Cavity Fire Stop with DPC ensuring that the DPC is not affected by the cutting.
- Compress the PFC Corofil Cavity Fire Stop with DPC and push into the cavity, ensuring the top of the cavity fire stop sits flush with the top surface of the floor slab.
- When extending the length of the PFC Corofil Cavity Fire Stop with DPC, ensure the adjacent lengths have their joints tightly abutted together and are aligned flush with each other to give the appearance of a continuous strip with no gaps.
- Fill any gaps up to 5mm with PFC Corofil Acoustic Intumescent Sealant to a minimum depth of 10mm.

Substrates

- Rigid walls: Minimum 100mm thick and comprised of concrete, aerated concrete or masonry, with a minimum density of 650kg/m^3.
- Rigid Floors: Minimum 150mm thick and comprised of concrete, aerated concrete or masonry, with a minimum density of 650kg/m^3.
- Masonry support system: Ancon Masonry Support System MDC/P to suit a 450mm cavity.

Terminology

Fire resistance classes:

E = Integrity. The length of time it takes for the fire to pass to the non-fire side.
I = Insulation. The length of time it takes for the heat of the fire to pass to the non-fire side.

Rigid Walls minimum thickness 100mm

PFC Corofil Cavity Fire Stop with DPC installed against Rigid Walls minimum 100mm thick				
Overall cavity width (mm)	**Minimum thickness of Cavity Fire Stop (mm)**	**Orientation**	**Brackets required**	**Fire resistance performance**
10 - 200 with integral DPC	100	Vertical	No	EI120
201 - 600 with integral DPC	82		Yes	EI120 EI30

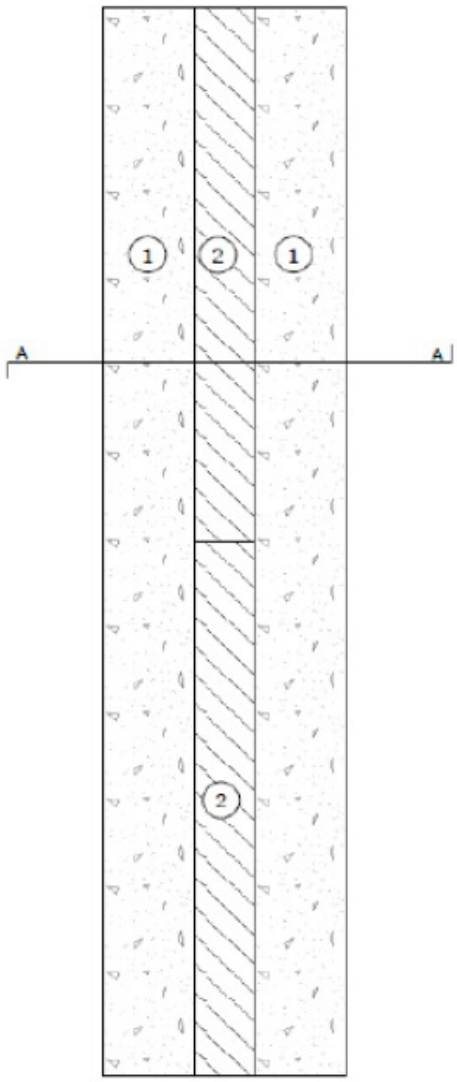
Rigid Floors minimum thickness 150mm

PFC Corofil Cavity Fire Stop with DPC installed against Rigid Floors minimum 150mm thick				
Overall cavity width (mm)	**Minimum thickness of Cavity Fire Stop (mm)**	**Orientation**	**Brackets required**	**Fire resistance performance**
10 - 200 with integral DPC	100	Horizontal	No	EI120
101 - 200 with integral DPC	100		No	EI120 EI90
201 - 450 with integral DPC	82		Yes	EI120 EI30
451 - 595 with integral DPC			Yes	EI60 EI30

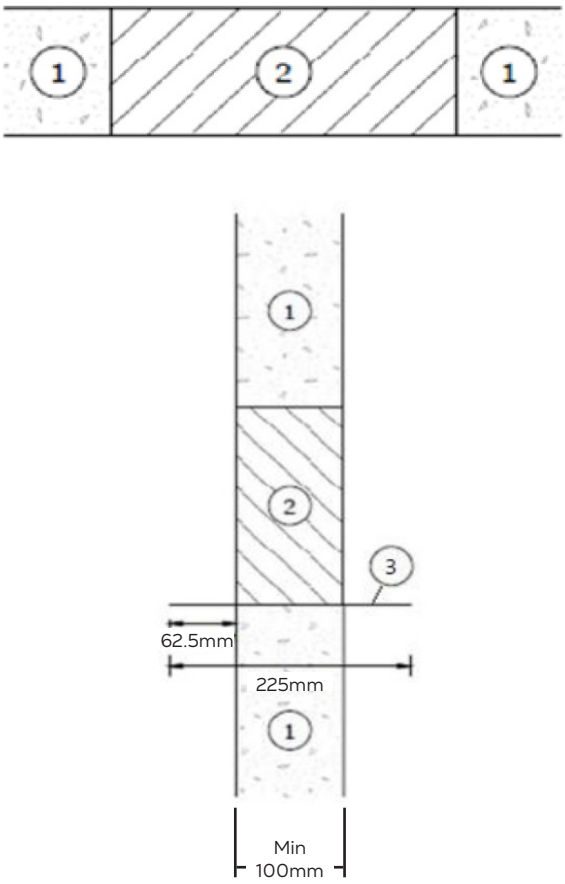
Rigid floors minimum thickness 150mm with masonry support system

PFC Corofil Cavity Fire Stop with DPC installed horizontally against an Ancon MDC/P Masonry Support System fixed to a rigid floor slab minimum 150mm thick				
Overall cavity width (mm)	**Minimum thickness of Cavity Fire Stop (mm)**	**Minimum gap from top of Masonry support bracket to top of floor slab (mm)**	**Brackets required**	**Fire resistance performance**
200 with integral DPC	82	28	No	EI120
201 - 450 with integral DPC			Yes	EI120 EI30

Front view:



Section view (A-A):



PFC Corofil Cavity Fire Stop CCFS to be installed in line with the product installation instructions. See Technical Data Sheet TDSCCFS for full details.

1. Minimum 100mm thick lightweight rigid wall
2. PFC Corofil Cavity Fire Stop CCFS
3. 225mm Damp Proof Course (DPC) bonded centrally

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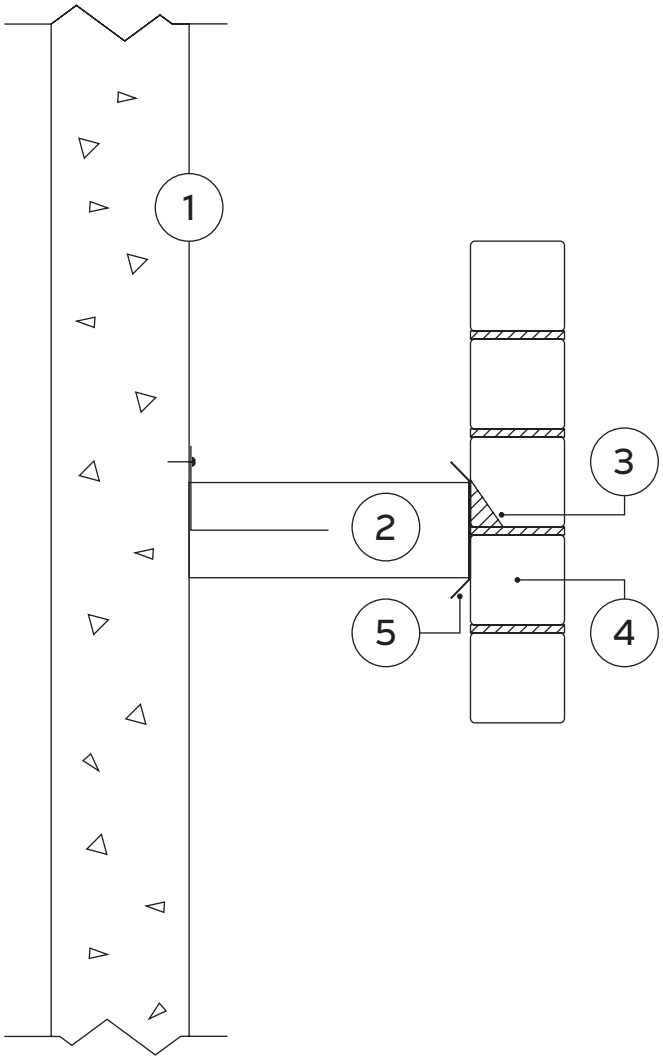
Drawing Title: CCFS Vertical Rigid Wall DPC	**Date:** 27/02/2023
Drawing Number: CCFS-V-RW-DPC-200	**Checked by:** SE/DQ
Scale: Not to scale	**Revision:** 1

PFC COROFIL CAVITY FIRE STOP CCFS INSTALLED HORIZONTALLY WITH DPC



PFC Corofil Cavity Fire Stop CCFS to be installed in line with the product installation instructions. See Technical Data Sheet TDSCCFS for full details.

1. Masonry
2. PFC Corofil Cavity Fire Stop (CCFS) with MP Bracket
3. Additional mortar added prior to brick course to aid compression (2mm)
4. Brickwork
5. DPC

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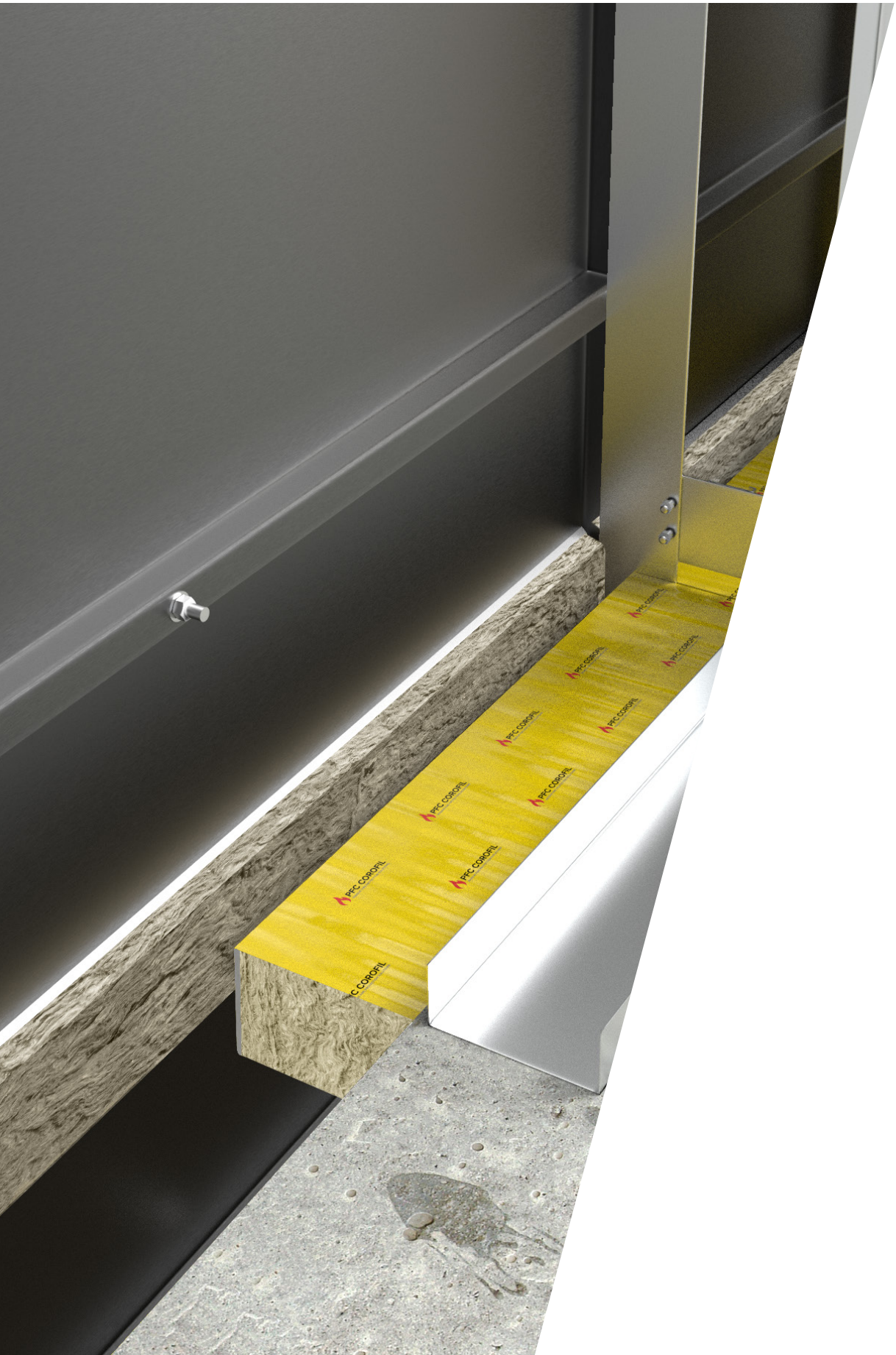
Phone: 020 8391 0533 **Web:** www.pfc-corofil.com **Email:** tech@pfc-corofil.com

Drawing Title: CCFS with DPC Horizontal	**Date:** 28/06/2023
Drawing Number: CCFS-H-RW-DPC-595	**Checked by:** SE/DQ
Scale: Not to scale	**Revision:** 1

Product Information



PFC COROFIL
PASSIVE FIRE PROTECTION SOLUTIONS

NBS

ASFP

CCPi PRODUCT
VERIFICATION NUMBER:
002300002/0925

PFC Corofil Open State Insert

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).

Intended Use

PFC Corofil Open State Insert is designed for use with the PFC Corofil Open State Barrier COSB 25 (1024). The insert should fill out the depth of the cassette panel, allowing a continuous air gap to be maintained behind the cassette panel without the need for notching around the panel joints.

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

Specification

Product	150mm wide x depth to suit panel (up to 31mm deep) 110kg/m³ stone wool	
Cavity Sizes	90mm – 300mm	
Fire Resistance Performance	90 minutes integrity 30 minutes insulation (90mm cavity width) 45/30 cavity widths 91mm to 300mm	Tested to the general principles of EN1363-1 and ASFP TGD19
Colour/Appearance	Buff/Stone wool	

Installation Instructions

Install the PFC Corofil Open State Barrier COSB 25 (1024) as per the installation instructions on TDSCOSB 25
Take a 1 metre strip of PFC Corofil Open State Insert COSI and cut to length, (if the panel is wider than 1 metre, use extra lengths) ensure the total length of the insert is 5mm longer than the cassette panel opening.

IMark on the cassette panel where the COSB 25 (1024) will line up and ensure the COSI is installed centrally so that the COSB 25 (1024) can expand against the full surface of the COSI.

IApply a 6mm bead of PFC Corofil Fire Resistant Silicone Sealant in two lines approximately 25mm in from each edge along the full length of the strip to one face of the insert.

IPlace the insert with the sealant facing the panel into the cassette and apply firm pressure along its length making sure the insert is fully adhered to the cassette panel.

IApply PFC Corofil Fire Resistant Silicone Sealant around the edges of the insert to seal against the cassette panel and install the panel. Make sure that the COSB 25 (1024) and the COSI are in line.

Substrates

Masonry; minimum 150mm thick and comprise of concrete, aerated concrete or masonry, with a minimum density of 650kg/m^3.

Steel Frame System; Metsec SFS 100mm x 2mm thick faced with 12.5mm Siniat Weather Defence Board on the outer face.

Fire Resistance Performance of PFC Corofil Open State Insert COSI installed within a 31mm deep 2.3mm thick Cassette Panel				
Product Reference	Overall Cavity Width	Air Gap	Fire resistance Performance	
			Integrity	Insulation
COSI	90mm	25	90	30
	91mm - 300mm		45	30

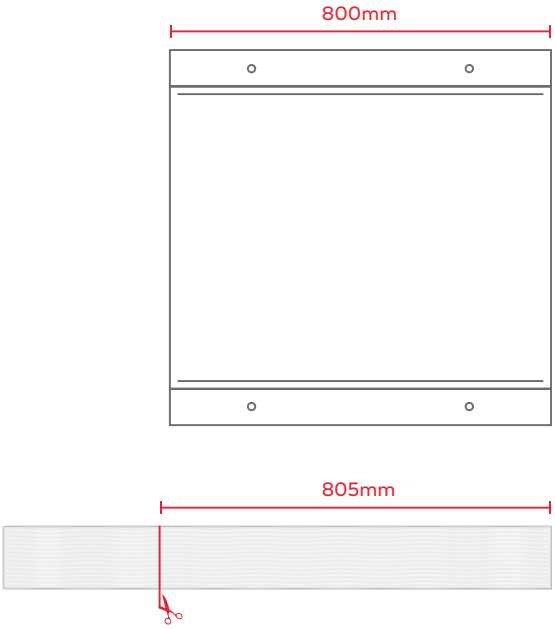
Installation Instructions

Considerations before installation

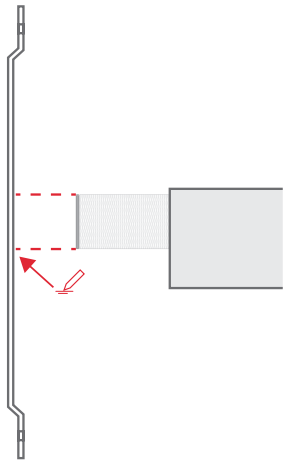
Install the PFC Corofil Open State Barrier COSB 25 (1024) as per the installation instructions on TDSCOSB 25.

Installation instructions

Take a 1 metre strip of PFC Corofil Open State Insert COSI and cut to length, (if the panel is wider than 1 metre, use extra lengths) ensure the total length of the insert is 5mm longer than the cassette panel opening.



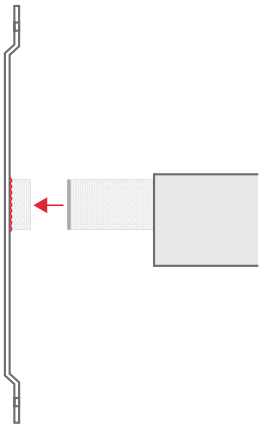
Mark on the cassette panel where the COSB 25 (1024) will line up and ensure the COSI is installed centrally so that the COSB 25 (1024) can expand against the full surface of the COSI.



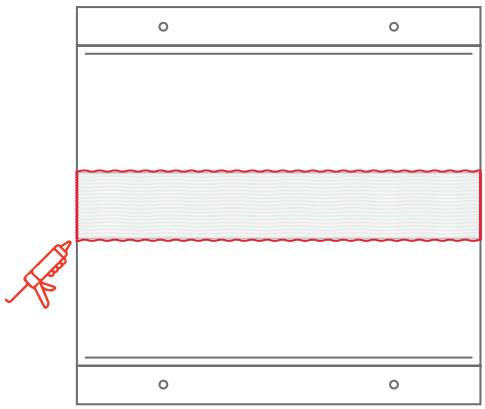
Apply a 6mm bead of PFC Corofil Fire Resistant Silicone Sealant in two lines approximately 25mm in from each edge along the full length of the strip to one face of the insert.

Installation instructions (continued)

Place the insert with the sealant facing the panel into the cassette and apply firm pressure along its length making sure the insert is fully adhered to the cassette panel.



Apply PFC Corofil Fire Resistant Silicone Sealant around the edges of the insert to seal against the cassette panel and install the panel. Make sure that the COSB 25 (1024) and the COSI are in line.



Substrates

Masonry; minimum 150mm thick and comprise of concrete, aerated concrete or masonry, with a minimum density of 650kg/m³.

Steel Frame System; Metsec SFS 100mm x 2mm thick faced with 12.5mm Knauf Windliner Board on the outer face.

The supporting construction must be classified in accordance with EN13501-2 for the required fire resistance period.

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