



C30072 – Botanical Place

Site Specific Detail Pack

Document Reference: PP-BP-C30071-05012024 Rev.2.0

Service Penetrations Through Fire Compartment Walls and Floors.



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fireshield

Higgins
OO PARTNERSHIPS

Quelfire
PROTECTING PEOPLE & PROPERTY

FSi

Promat

Nullifire

Site specific installation types (Wall Penetrations)

Item type	Page No.	Manufacturers Technical Submission Reference.	Introduced
Flat Entrance Door Letterbox – Multi-service EI60.	04	FSI - FLEXI-MSP-90-F & Service Spacing Guide	Revision 1 - 05/01/2024
Head of Wall - Linear Gap Seal (El90)	05	NULLIFIRE - FJ400 Performance Data + AOV (Airtight extract)	Revision 1 - 05/01/2024
Wall Joint – Linear Gap Seal	06	NULLIFIRE - ETA-20/1315 page 11	Revision 1 - 05/01/2024
Service Riser 3-Sided Letterbox – Base Detail El90.	07	NULLIFIRE - HOW Intubatt / Intuspan (87x50mm)	Revision 1 - 05/01/2024
Electrical Riser – Cables and Cable Carriers El90.	08	NULLIFIRE - FB750 Application Brochure Page 31 / 33	Revision 1 - 05/01/2024
Mechanical Riser – CPVC and Non-Combustible Pipes El90.	09	NULLIFIRE - FB750 Application Brochure Page 31 / 33	Revision 1 - 05/01/2024
Mechanical Riser – Uninsulated Copper Pipe El90.	10	NULLIFIRE - FB750/Flo25 uninsulated Copper Pipe	Revision 2 - 15/01/2025
Windpost P250 Detail – Installation and Board Thickness	11	PROMAT - TDS176 P-250 60 – 120mins Protection V2. Page 1 -2.	Revision 1 - 05/01/2024
Windpost P250 Detail – 1-Sided Application	12	PROMAT - TDS176 P-250 60 – 120mins Protection V2. Page 3.	Revision 1 - 05/01/2024
Windpost P250 Detail – 2-Sided Application	13	PROMAT - TDS176 P-250 60 – 120mins Protection V2. Page 5.	Revision 1 - 05/01/2024
Windpost P250 Deflection Head Detail	14	PROMAT - TDS176 P-250 60 – 120mins Protection V2. Page 12-13.	Revision 1 - 05/01/2024

Flat entrance door letterbox (EI60 required) FSI Flexi-Finger (EI90 achieved)

Multi-Service Penetration Seal



Separation Distance – Flexi- Coat - 90 minutes

	Cable Tray	Plastic Pipe + Pipebloc EL Wraps	C-PVC Pipe + Pyropro HPE Sealant	Single Cable	Copper/Steel Pipe (Insulation Type :- Elastomeric, Stonewool , Phenolic Glasswool) + Pipebloc EL Wraps	Cable Bundle	PVC Plastic Vent Duct + Pipebloc EL Wraps
Cable Tray	50mm	50mm	50mm	50mm	50mm	50mm	100mm
Plastic Pipe + Pipebloc EL Wraps	50mm	0mm	50mm	50mm	50mm	50mm	100mm
C-PVC Pipe + Pyropro HPE Sealant	50mm	50mm	50mm	50mm	50mm	50mm	100mm
Single Cable	50mm	50mm	50mm	0mm	50mm	0mm	100mm
Copper/Steel Pipe (Insulation Type :- Elastomeric, Stonewool , Phenolic Glasswool) + Pipebloc EL Wraps	50mm	50mm	50mm	50mm	50mm	50mm	100mm
Cable Bundle	50mm	50mm	50mm	50mm	50mm	50mm	100mm
PVC Plastic Vent Duct + Pipebloc EL Wraps	100mm	100mm	100mm	100mm	100mm	100mm	100mm
Substrate	50mm	50mm	50mm	50mm	50mm	50mm	0mm

5.1

Notes							
All spacing is not inclusive of any required closure device that is to be applied to the service.							
Spacing should be taken from the perimeter of any Continuous / Sustained insulation + closure							
All service supports should be positioned $\leq 400\text{mm}$ from both faces of the substrate .							
The spacing guidelines advised are relevant for the fire resistance period for the tested systems as per FSI Standard Details .							
All spacings are a minimum requirement and can be increased without limit .							
Local / Interrupted insulation may impact on the ability to achieve separation distances between service. This should be considered depending on the service types present							
The level of deflection that is required to be accommodated by the system may require an increased separations distance. This will require x 4 of the deflection requirement or the spacings referenced in the table whichever is greater. This will be to all 4 edges in 4 sided openings or to the left, right and bottom of the seal in a 3-sided opening.							



Section View

1
2
3
4
5
6
7

10mm
20mm
30mm

Front View

1
2
3
4
5
6
7

Technical Details

Wiring Test Data:
PVC Plastic Vent Duct + Pipebloc EL Wraps
Cable tray + Pipebloc EL Wraps
Single cable
Copper/Steel Pipe (Insulation Type :- Elastomeric, Stonewool , Phenolic Glasswool) + Pipebloc EL Wraps

1	PVC plastic vent duct
Size	200mm for 24K
System	FSI Flexi-Finger is a 3 layered firestop system. The top layer consists of the FFSI Coating system, the middle consists of the Pipebloc EL Wraps and the bottom consists of the Pyropro HPE Sealant. All three layers are required to form a closure. Each wrap is made from a single piece of flexible material that is crimped onto the service and sealed with a heat shrink sleeve.
Separation	Service to substrate = 0mm Service to services = 100mm
2	C-PVC Sprinkler Pipe
Size	12mm - 16mm (1/2" - 5/8" inch)
System	Following the standard shaped efficiency firestop system. The top layer consists of the FFSI Coating system, the middle consists of the Pipebloc EL Wraps and the bottom consists of the Pyropro HPE Sealant. All three layers are required to form a closure. Each wrap is made from a single piece of flexible material that is crimped onto the service and sealed with a heat shrink sleeve.
Separation	Service to substrate = 0mm Service to services = 100mm
3	Cable tray + Ladders, Ducts
System	Services to be fire stopped efficiently the Firestop system is to be applied to the vertical substrates. The top layer consists of the FFSI Coating system, the middle consists of the Pipebloc EL Wraps and the bottom consists of the Pyropro HPE Sealant. All three layers are required to form a closure. Each wrap is made from a single piece of flexible material that is crimped onto the service and sealed with a heat shrink sleeve.
Separation	Service to substrate = 0mm Service to services = 100mm
4	Plastic Pipe + Pipebloc EL Wraps
Size	2120 mm
System	FSI Flexi-Finger is a 3 layered firestop system. The top layer consists of the FFSI Coating system, the middle consists of the Pipebloc EL Wraps and the bottom consists of the Pyropro HPE Sealant. All three layers are required to form a closure. Each wrap is made from a single piece of flexible material that is crimped onto the service and sealed with a heat shrink sleeve.
Separation	Service to substrate = 0mm Service to services = 100mm
5	Single Cable
System	The service to be fire stopped efficiently the Firestop system is to be applied to the vertical substrates. The top layer consists of the FFSI Coating system, the middle consists of the Pipebloc EL Wraps and the bottom consists of the Pyropro HPE Sealant. All three layers are required to form a closure. Each wrap is made from a single piece of flexible material that is crimped onto the service and sealed with a heat shrink sleeve.
Separation	Service to substrate = 0mm Service to services = 100mm
6	Copper/Steel Pipe (Insulation Type :- Elastomeric, Stonewool , Phenolic Glasswool) + Pipebloc EL Wraps
Size	2120 mm
System	The service to be fire stopped efficiently the Firestop system is to be applied to the vertical substrates. The top layer consists of the FFSI Coating system, the middle consists of the Pipebloc EL Wraps and the bottom consists of the Pyropro HPE Sealant. All three layers are required to form a closure. Each wrap is made from a single piece of flexible material that is crimped onto the service and sealed with a heat shrink sleeve.
Separation	Service to substrate = 0mm Service to services = 100mm
7	Plastic Pipe - Copper/Steel Pipe Casing + Pipebloc EL Wraps
Size	2120 mm
System	The service to be fire stopped efficiently the Firestop system is to be applied to the vertical substrates. The top layer consists of the FFSI Coating system, the middle consists of the Pipebloc EL Wraps and the bottom consists of the Pyropro HPE Sealant. All three layers are required to form a closure. Each wrap is made from a single piece of flexible material that is crimped onto the service and sealed with a heat shrink sleeve.
Separation	Service to substrate = 0mm Service to services = 100mm

Installations Guidance :

Install Flexi-Coat/Finger into the opening with a minimum 20% compression fit between the substrates and tightly packed around services. Once the Flexi-Coat/Finger is installed, overcoat with Flexi-Coat to all joint/junctions ensuring a minimum 20mm overlap on to all surrounding substrates and services. Once the void is completely filled with Flexi-Coat/Finger overcoat with Flexi-Coating@5 to all joint/junctions ensuring a minimum 20mm overlap on to all surrounding substrates and services.

No Flexi-Coating should come into contact with CPVC sprinkler pipes. The required annular void should be left and filled utilizing the Pyropro HPE sealant.

TESTED DETAIL

Drawing Title: Flexi-Coat Standard details for EI90 to EN1366-3

<p>Notes</p> <p>The services described within the enclosure are valid for both EI90 and EI1366-3 applications with any combination and number of services detailed within the detail providing the required separation distances can be achieved.</p> <p>Separation distances</p> <ul style="list-style-type: none"> 1) Separation in substrate enclosures: Define as 0mm 2) Services to substrate separation: Define as 0mm 3) Services to services separation: Define as 0mm <p>2 sided openings</p> <ul style="list-style-type: none"> 1) Separation in substrate enclosures: Define as 0mm 2) Services to substrate separation: Define as 0mm 3) Services to services separation: Define as 0mm <p>3 sided openings</p> <ul style="list-style-type: none"> 1) Separation in substrate enclosures: Define as 0mm 2) Services to substrate separation: Define as 0mm 3) Services to services separation: Define as 0mm <p>4 sided openings</p> <ul style="list-style-type: none"> 1) Separation in substrate enclosures: Define as 0mm 2) Services to substrate separation: Define as 0mm 3) Services to services separation: Define as 0mm 	<p>Scale : NTS</p> <p>Drawn by : FSI Limited</p> <p>File Located : D:\FSI\FSI\Technical Drawings\FSI Flexi-Finger\FSI Flexi-Finger EI90 to EN1366-3.dwg</p> <p>Reviewed : Date : 01/01/2024</p> <p>Service Support: + 40mm Service supports must be appropriately fire resistant</p> <p>Maximum Opening Size: 1200mm x 1200mm</p> <p>Issue No: Drawing Reference : Date : 01 21024897 09/01/2024</p>
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Head of Wall Linear Gap Seal (EI90 required)

FJ400 (EI120 achieved)



FJ400 Intuspan Intumescent Joint Filler Performance Data

Nullifire
Smart Protection

Fire performance in accordance with BS EN1366-4 and BS EN1366-3 testing.

Key to abbreviations: E = Integrity, I = Insulation, AAC = Aerated Concrete, H = Horizontal, V = Vertical, T = Horizontal on a vertical plane, W = Width range, X = no Movement fire tested (<= 7.5%), M = Movement fire tested, F = Joint tested in backing material, B = no Joint tested in backing material (or combustible backing material used, no joint required to be tested).

Substrate	Installation	Suitable Size (mm)	Classification				
			Integrity & Insulation	Application & Usage	Gap Width Range		
FLOOR JOINTS							
FJ400 Linear Joint Seals in Rigid Floors 150 mm thick (min.)							
AAC-AAC	Top Side	28 x 25 x 1000*	EI 120	T - X - F	W 12-25		
AAC-AAC	Top Side	56 x 50 x 1000	EI 120	T - X - F	W 23-50		
AAC-AAC	Top Side	117 x 100 x 1000	EI 60	T - X - F	W 47-100		
WALL JOINTS							
FJ400 Linear Joint Seals in Rigid Walls 100 mm thick (min.)							
AAC-AAC	Both Sides	(2x) 28 x 25 x 1000	EI 120	T - X - F	W 12-25		
AAC-AAC	Central	56 x 50 x 1000	EI 120	T - X - F	W 23-50		
AAC-AAC	Central	87 x 50 x 1000	EI 30	T - X - F	W 35-75		
AAC-AAC	Central	117 x 100 x 1000	EI 120	T - X - F	W 40-100		
AAC-AAC	Both Sides	(2x) 28 x 25 x 1000	EI 120	V - X - F	W 12-25		
AAC-AAC	Central	56 x 50 x 1000	EI 120	V - X - F	W 23-50		
AAC-AAC	Central	87 x 50 x 1000	EI 30	V - X - F	W 35-75		
AAC-AAC	Central	117 x 100 x 1000	EI 120	V - X - F	W 40-100		
HOW (HEAD OF WALL) DEFLECTION JOINTS							
FJ400 Linear Joint Seals into FB750 Intubatt Single Compressed 75 mm thick (min.) wall							
AAC-FB750	Central	56 x 50 x 1000**	EI 60	T - X - F	W 23-50		
HOW (HEAD OF WALL) DEFLECTION JOINTS							
FJ400 Linear Joint Seals into FB750 Intubatt Double Compressed 100 mm thick (min.) wall							
AAC-FB750	Both Sides	(2x) 56 x 50 x 1000**	EI 120	T - X - F	W 23-50		

* Rock fibre backer required 33 kg / m³, 80 mm depth.

** Bonded with FS702 Intumastic.

3mm of FS703 applied within the AOV shaft, as per the below guidance.
Extracted from the FJ400 TDS.

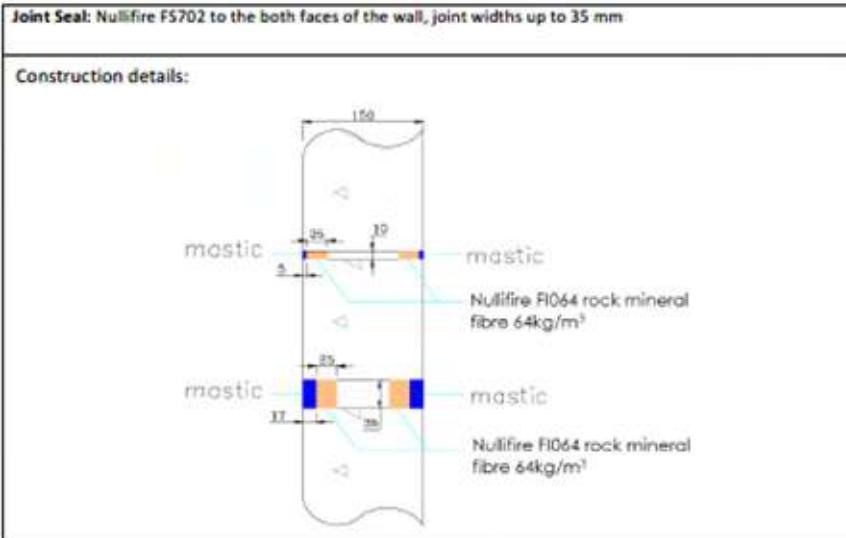
Important Information

- FJ400 must be mechanically restrained if used against any non fire rated element (cladding).
- Excessive construction tolerance should be notified to the site manager or engineer.
- In case of airtightness / watertightness requirement, use FS703 to the exposed face, minimum 3 mm thickness.

Wall Joint Linear Gap Seal (Elgo required) FFS702 (El240 achieved)

Page 11 of 19 of European Technical Assessment ETA-20/1315 issued on 2021-01-01

A.2.3 Horizontal linear joint or gap seal in rigid walls or between head of wall and concrete floor soffit



A.2.3.1

Substrate	Min. Depth (mm)	Backing	Classification
Masonry/ concrete	5	25 mm deep Nullfire FI064 rock mineral fibre 64kg/m ³ , compressed by 30%	El 240 – T – X – F – W 05 to W 10
	17		El 240 – T – X – F – W 05 to W 35

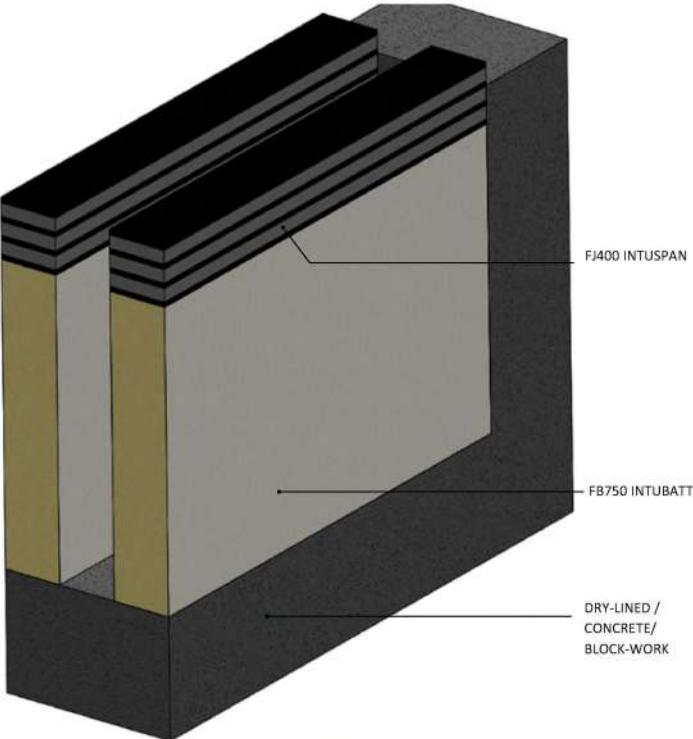
Service Riser 3-Sided Letterbox – Base Detail (EI90 required).

FJ400/FB750 Base Detail (EI120 achieved)



Installation Instructions:

1. Ensure within area is clean and free of loose cement and remove all dust from surfaces requiring installation.
2. Cut FB750 Intubatt to form upright element ensuring compression is achieved to two opposing sides (left & right), allowing for a 50mm on top edge.
3. Apply FS702 Intumastic to all joints and interfaces as per PS001.
4. Install 4 number 87mm x 50mm (47mm compression) FJ400 Intuspan to accommodate downward deflection.
5. Remove excess FS702 Intumastic with a damp cloth.



Additional Notes:

Please refer to Nullifire Preapplication Guidance Note or if any further queries contact the Nullifire Technical Department. All surrounding substrates must perform to an equal or greater fire performance than the fire seal.

Test Information:

Standard (Ref): WFS29169 (Tested to BS EN 1366 - 3)
Products: FB750 INTUBATT, FS702 INTUMASTIC, FJ400 INTUSPAN
Scenario: Large voids at compartment wall head
Construction: Concrete/Block-work/Dry-lined walls
Movement: 60% (Compression and return)
Seal size 740mm x 500mm
Fire Resistance: Integrity (E) 120 mins
Insulation (I) 120 mins

Client and Job Title:

Drawing Title:

INTUBATT & INTUSPAN HOW

Drawing Reference No:

HOW INTUBATT
INTUSPAN (87x50MM)

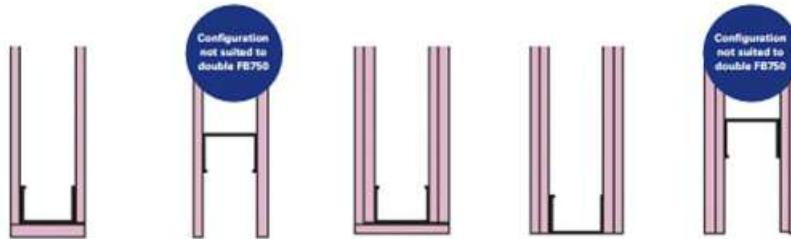
Additional Information:

Scale: NTS
Date: September 2023
Sheet Size: A3
Drawn By:
Drawing No: 1553260121
Rev: 1.0

Electrical Riser Cables / Carriers – Multi-service (El90 required).

FB750 + FS702/FS709 (El90)

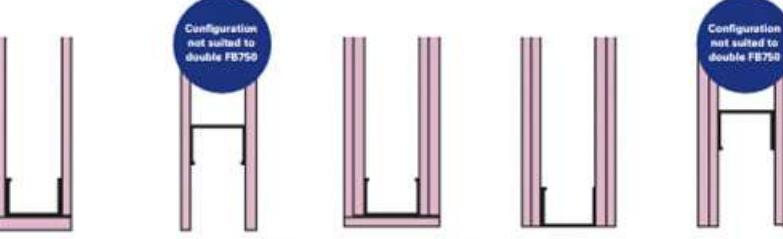
Seal Requirements / Tested Additional Required Products / Typical Results



Cables Carriers / Cable Trays - Double Batt Compression

Integrity	Integrity & Insulation
FB750 + FS702 = E 120	FB750 + FS702 = EI 90
FB750 + FS702 + FI025 = E 120	FB750 + FS702 + FI025 = EI 120
FB750 + FS709 = E 120	FB750 + FS709 = EI 90
FB750 + FS709 + FI025 = E 120	FB750 + FS709 + FI025 = EI 120
FB750 + FS709 = E 120	FB750 + FS709 = EI 90
FB750 + FS702 + Batt Box (FI064) = E 120	FB750 + FS702 + Batt Box (FI064) = EI 120
FB750 + FS702 60mm Cone = E 120	FB750 + FS702 60mm Cone = EI 120
A-H FB750 + FS702 + FP333 = E 120	A-H FB750 + FS702 + FP333 = EI 60

Seal Requirements / Tested Additional Required Products / Typical Results



Cable Bundles - Double Batt Compression

Integrity	Integrity & Insulation
FB750 + FS702 = E 120	FB750 + FS702 = EI 90
FB750 + FS702 + FI025 = E 120	FB750 + FS702 + FI025 = EI 120
FB750 + FS709 = E 120	FB750 + FS709 = EI 90
FB750 + FS709 + FI025 = E 120	FB750 + FS709 + FI025 = EI 120
FB750 + FS709 = E 120	FB750 + FS709 = EI 90
FB750 + FS702 + Batt Box (FI064) = E 120	FB750 + FS702 + Batt Box (FI064) = EI 120
FB750 + FS702 60mm Cone = E 120	FB750 + FS702 60 mm Cone = EI 120
A-H FB750 + FS702 + FP333 = E 120	A-H FB750 + FS702 + FP333 = EI 60

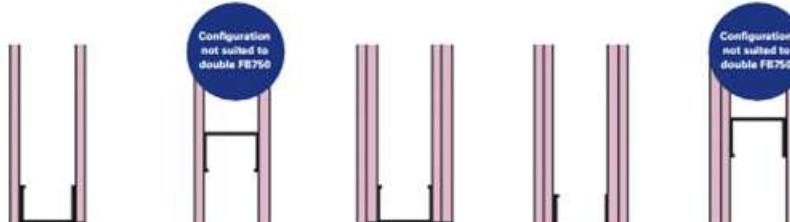
This page provides guidance as to the possible tested application details and outlines a selection of product requirements.
For specific results refer to the ETA or Classification Report Tables for Nullfire FB750.

This page provides guidance as to the possible tested application details and outlines a selection of product requirements.
For specific results refer to the ETA or Classification Report Tables for Nullfire FB750.

Mechanical Riser CPVC and Non-Combustible Pipes (EI90 required).

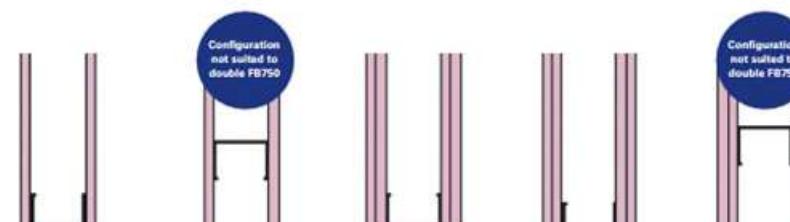
FB750 + FS719 (EI120)

Seal Requirements / Tested Additional Required Products / Typical Results



Combustible Pipes - Double Batt Compression

Seal Requirements / Tested Additional Required Products / Typical Results



Insulated Non-combustible Pipes LS/CS - Double Batt Compression

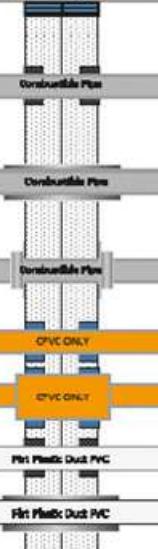
Integrity

FB750 + FP302 + FS702 = E 120

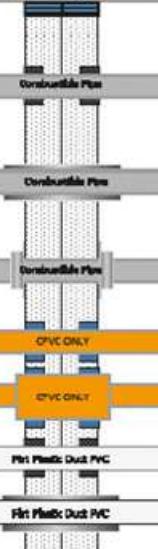


Integrity & Insulation

FB750 + FP302 + FS702 = EI 120

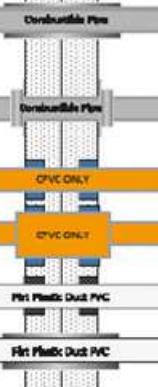


FB750 + FS709 = E 120



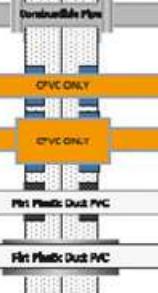
FB750 + FS709 = EI 120

FB750 + FP220 + FS702 = E 120



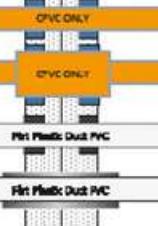
FB750 + FP220 + FS702 = EI 120

FB750 + FP170 + FS702 = E 120



FB750 + FP170 + FS702 = EI 120

FB750 + FS719 = E 120



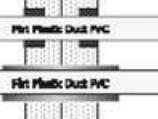
FB750 + FS719 = EI 120

FB750 + FS719 = E 120



FB750 + FS719 = EI 120

FB750 + FS709 = E 120



FB750 + FS709 = EI 120

FB750 + FP220 + FS702 = E 120



FB750 + FP220 + FS702 = EI 120

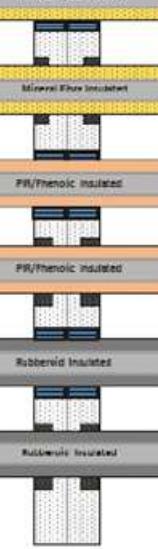
Integrity

FB750 + FP302 + FS702 = E 120

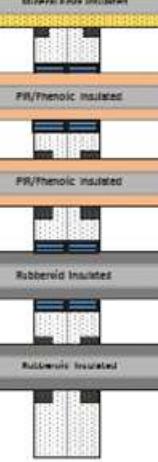


Integrity & Insulation

FB750 + FP302 + FS702 = EI 120

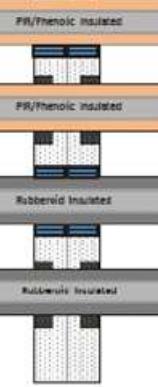


FB750 + FS709 = E 120



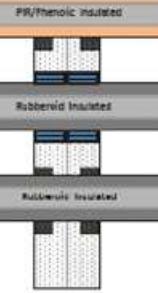
FB750 + FS709 = EI 120

FB750 + FP220 + FS702 = E 120



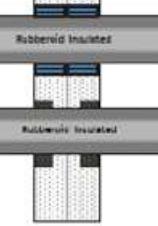
FB750 + FP220 + FS702 = EI 120

FB750 + FS709 = E 120



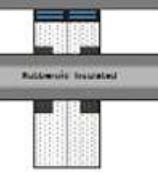
FB750 + FS709 = EI 120

FB750 + FP302 + FS702 = E 120



FB750 + FP302 + FS702 = EI 120

FB750 + FS709 = E 120



FB750 + FS709 = EI 120

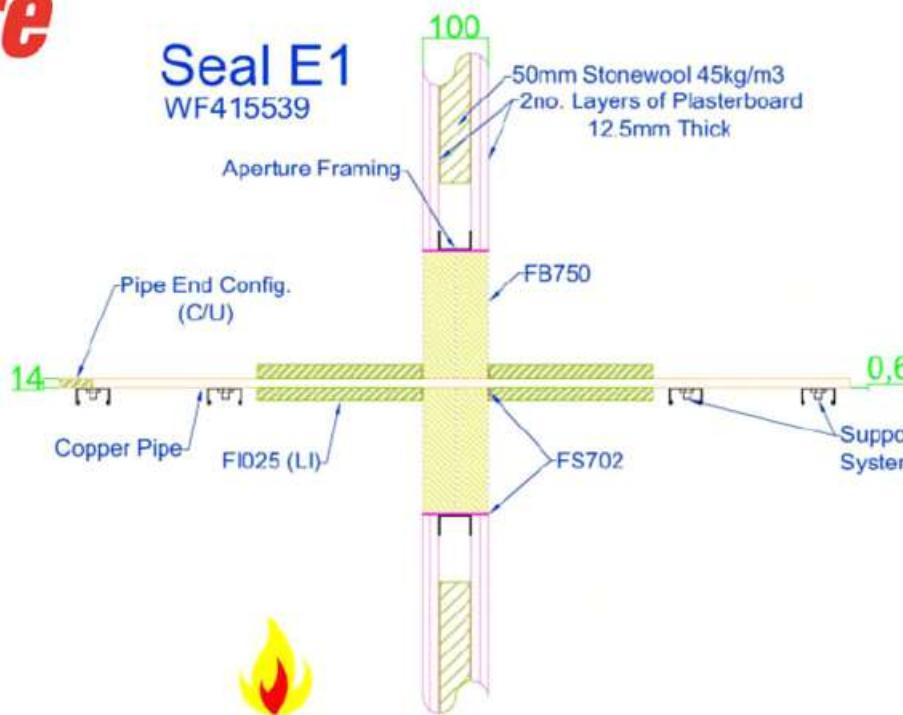
Mechanical Riser 14mm copper pipe (EIgo required).

FB750 + FI025 (EI120)

Nullifire

Seal E1
WF415539

Tested to EN 1366-3



TESTED DETAIL
Insulated Non-Combustible Pipe

EI120

Reference number :
FB750-DW100-DC-SI-INCP-FS702-FI025-00315-2D

Flexible Wall 100mm
Double FB750 compressed
Single non-combustible pipe 14mm insulated with
FI025

The use of alternative components or any deviation from the tested solution provided above is not permitted. Tremco CPG UK Ltd accept no responsibility for the use of Nullifire products or other Tremco CPG products in any applications or purposes not authorised or recommended by Tremco CPG. Further expert advice should always be sought where such applications are to be considered. This information is provided in good faith and is believed to be correct as of the date of publication based upon tested solutions. The reader must always ensure that they are following the latest published versions. Tremco CPG UK Ltd. assumes no liability, expressed or implied, as to the design, architecture, engineering, or workmanship of any project.

V1 10.10.2023

TREMCO
Construction Products Group

Windpost P250 Detail – Installation and Board Thickness (60-120 minutes).

Promat

60, 90 & 120 Minute PROMATECT®-250
Protection to Wind Posts in Fire Resistant,
Separating Walls

Technical Data Sheet No:176
Date: 05/05/2023 Version: 2.0

INTRODUCTION

Wind posts are a common way of providing lateral support to tall masonry walls in modern steel-framed buildings.

In situations where the walls are also required to provide fire resistance between two compartments (or at a boundary position), the fire protection applied to the wind posts must also maintain the fire separation across the wall construction at that point. That is, in addition to providing fire protection to the steel to a limiting temperature, it must also be capable of maintaining the wall fire integrity and fire insulation requirements of 140°C mean rise and 180°C maximum spot temperature rise above ambient conditions, to the unexposed face.

The board thicknesses for compartmentation will normally be in excess of those required to provide protection to a limiting steel temperature.

For cold rolled sections the thickness of board may need to increase because of either a higher A/N value, or lower limiting temperature and it is important that these checks are completed by a competent person.

Refer to tabulated data within Certificate UL-EU-01220-CPR, available for download from the Promat website.

PROMAT PROMATECT®-250 can be installed in 1, 2 and 3 sided configurations to wind posts, with a number of different fixing options available to suit site conditions and the wind post profiles. Details of each of these options are included within this document.



TYPICAL 2-SIDED WIND POST ENCASEMENT

INSTALLATION

- Where PROMATECT®-250 boards will remain recessed, or flush with the block wall, the PROMATECT®-250 protection may be fastened directly to the exposed faces of the steel sections using either M4 steel self-tapping or self-drilling screws at nominal 300mm centres or minimum 3.6mm steel shot fired nails at 300mm nominal centres. See typical fixing layout on page 8 for details of the setting out of the fixings.

The screws or nails must penetrate at least 10mm beyond the interface of the PROMATECT®-250 and the steel, and are staggered. At any horizontal PROMATECT®-250 joint, there must be two fixings 20mm above and below the joint. The screws or nails may be fitted with or without steel washers (the use of washers is optional).

A nominal 3mm gap must be left between the edge of the PROMATECT®-250 board and the blockwork. This must be fully filled with Promat PROMASEAL® Intumescent Acrylic Sealant. Where horizontal joints occur, a nominal 3mm gap must also be left between PROMATECT®-250 boards and fully filled with Promat PROMASEAL® Intumescent Acrylic Sealant.

- Alternatively, where the wind post sits proud of the block wall, the PROMATECT®-250 boards may be fastened to the face of the block wall, through 75mm wide PROMATECT®-250 packers either side of the wind post into non-combustible plugs. The fixings should penetrate the blockwork by a minimum of 30mm and be a minimum of 50mm from the edge of the blockwork. The cover strip must leave a nominal clearance to the steel post, with packer thickness adjusted accordingly.

Promat

60, 90 & 120 Minute PROMATECT®-250
Protection to Wind Posts in Fire Resistant,
Separating Walls

Technical Data Sheet No:176
Date: 05/05/2023 Version: 2.0

AUTHORITY: CERTIFICATE No. UL-EU-01220-CPR

1-SIDED WIND POST

When wind posts are incorporated into the inner leaf of an external wall, the outer masonry leaf will normally provide the fire separation required (any insulation to the cavity should be non-combustible). The protection to the windpost under these circumstances may be regarded as a normal 1-sided steel section exposure.

The wind post will normally require fire protection for the same fire resistance period as the supported separating wall. Fire attack will normally be considered to occur from the inner face only. Under these circumstances the thickness of PROMATECT®-250 required to maintain fire separation across the wall will usually be greater than the thickness required simply to protect the steel alone.

INSTALLATION

The methods used for fixing the PROMATECT®-250 boards are the same as described on page 1 of this document.

TABLE 1 - 1-SIDED WIND POST ENCASEMENT

Promatect®-250 thickness required to maintain 60, 90 or 120 minutes across the compartment wall.

Fire period	60 minutes	90 minutes	120 minutes
Board thickness (Fixed to the exposed face of the windpost)	13mm	20mm	25mm

Windpost 1-Sided P250 Detail (90 minutes).

Promat 60, 90 & 120 Minute PROMATECT®-250 Protection to Wind Posts in Fire Resistant, Separating Walls

Technical Data Sheet No: 176 Date: 05/05/2023 Version: 2.0

1-SIDED WIND POST: FIXED VIA PACKERS

KEY

- ① Promat PROMATECT®-250 boards (See Table 1 for thickness)
- ② 75mm wide Promat PROMATECT®-250 packers fixed either side of the blockwork opening. Thickness to maintain nominal gap to wind post
- ③ M4 screws into metal plugs, non-combustible concrete anchors, or concrete screws (by others) at maximum 300mm centres. Fixing length to give minimum penetration of 30mm into substrate
- ④ Typical steel wind post
- ⑤ Block ties
- ⑥ Non-combustible insulation (Optional)
- ⑦ External brickwork or blockwork leaf

NOTE: A lightweight metal flashing can be installed around the boards, by others, to offer impact protection - optional. (Shown in blue line)

AUTHORITY: CERTIFICATE No. UK-EU-01220-CPR

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Windpost 2-Sided P250 Detail (90 minutes).

Promat 60, 90 & 120 Minute PROMATECT®-250 Protection to Wind Posts in Fire Resistant, Separating Walls

Technical Data Sheet No: 176 Date: 05/05/2023 Version: 2.0

2-SIDED WIND POST - FIXED WA PACKERS

KEY

- ① Promat PROMATECT®-250 boards (See Table 2 for thickness)
- ② 75mm wide Promat PROMATECT®-250 packers fixed either side of the blockwork opening. Thickness to maintain nominal gap to wind post
- ③ M4 screws into metal plugs, non-combustible concrete anchors, or concrete screws (by others) at maximum 300mm centres. Fixing length to give minimum penetration of 30mm into sub strata
- ④ Typical steel wind post
- ⑤ Block ties

NOTE: A lightweight metal flashing can be installed around the boards on both sides of the wall; by others, to offer impact protection – optional. (shown in blue line)

AUTHORITY: CERTIFICATE NO. UL-EU-01220-CPR

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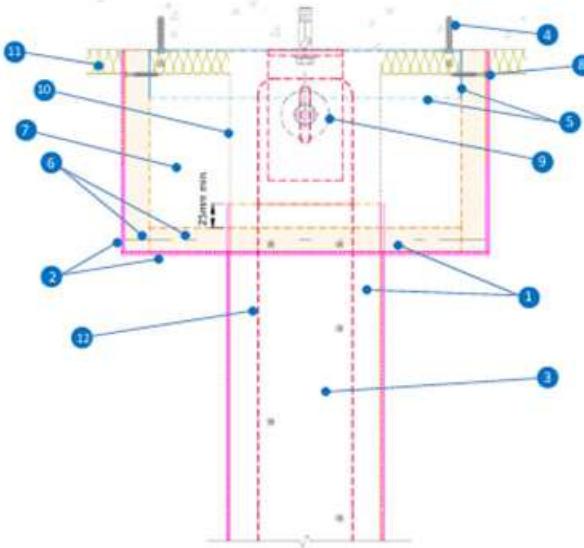
Windpost 2-Sided Deflection Head Detail.

Promat

60, 90 & 120 Minute PROMATECT®-250
Protection to Wind Posts in Fire Resistant,
Separating Walls

Technical Data Sheet No: 176
Date: 05/05/2023 Version: 2.0

TYPICAL 2-SIDED WINDPOST DEFLECTION HEAD DETAIL - SECTION VIEW



KEY

- 1 PROMATECT®-250 Board (See Table 2 on page 4 of 13 for thickness)
- 2 Promat PROMASEAL® Intumescent Acrylic Sealant
- 3 Standard 2-sided Windpost Protection (Refer to Page 4 of 13 for detail and specification)
- 4 M4 screws into metal plugs, non-combustible concrete anchors, or concrete screws (by others) at maximum 300mm centres. Fixing length to give minimum penetration of 30mm into substrate
- 5 Metal Angle 50x25x0.5mm (minimum thickness)
- 6 Chisel Point Staples 35x12x1.6mm at maximum 150mm centres (50x12.5x1.6mm for boards over 15mm thick). The end staples are located nominally 40mm from the corner of the board
- 7 Promat PROMATECT®-250 board (Facing board hatch omitted for clarity)
- 8 M4 CKS Self Tapping Screws or Drywall Screws at maximum 200mm centres. Screw length to give minimum penetration of 10mm through angle
- 9 Windpost head restraint (indicative only)
- 10 Outline of blockwork (indicative only)
- 11 Fire stopping at wall head (indicative only)
- 12 Typical Steel Wind post

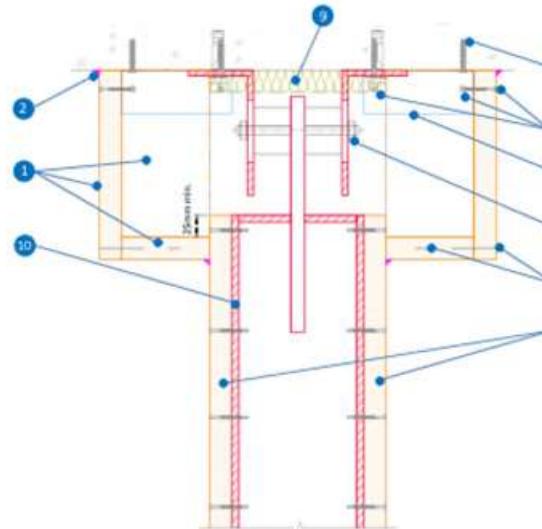
NOTE: Final construction detail to be produced by the project principal designer and checked/approved by an appropriate third party prior to construction. Often site-specific details are outside the scope of current BS & EN test methods. This recommendation is based on the principles of the relevant BS/EN standards and is not directly tested, accordingly, performance needs to be validated/approved by an appropriate third party.

Promat

60, 90 & 120 Minute PROMATECT®-250
Protection to Wind Posts in Fire Resistant,
Separating Walls

Technical Data Sheet No: 176
Date: 05/05/2023 Version: 2.0

TYPICAL 2-SIDED WINDPOST DEFLECTION HEAD DETAIL - SECTIONAL ELEVATION



KEY

- 1 Promat PROMATECT®-250 board (Facing board hatch omitted for clarity) (See Table 2 on page 4 of 13 for thickness)
- 2 Promat PROMASEAL® Intumescent Acrylic Sealant
- 3 Standard 2-sided Windpost Protection (Refer to Page 4 of 13 for detail and specification)
- 4 M4 screws into metal plugs, non-combustible concrete anchors, or concrete screws (by others) at maximum 300mm centres. Fixing length to give minimum penetration of 30mm into substrate
- 5 Metal Angle 50x25x0.5mm (minimum thickness)
- 6 Chisel Point Staples 35x12x1.6mm at maximum 150mm centres (50x12.5x1.6mm for boards over 15mm thick). The end staples are located nominally 40mm from the corner of the board
- 7 M4 CKS Self Tapping Screws or Drywall Screws at maximum 200mm centres. Screw length to give minimum penetration of 10mm through angle
- 8 Windpost head restraint (indicative only)
- 9 Fire stopping at wall head (indicative only)
- 10 Typical Steel Wind post

NOTE: Final construction detail to be produced by the project principal designer and checked/approved by an appropriate third party prior to construction. Often site-specific details are outside the scope of current BS & EN test methods. This recommendation is based on the principles of the relevant BS/EN standards and is not directly tested, accordingly, performance needs to be validated/approved by an appropriate third party.

Quelfire Product	Document Type	Manufacturers Product Download Hyperlink.	Introduced
FSI FlexiFinger	Safety Data Sheet	SDS019-FSi-Flexi-Coat-GB-2.pdf	Revision 1 - 05/01/2024
	Technical Data Sheet	TDS018-V4.0-Flexi-Coat-June-2024-Final-approved.pdf	
	Installation Guide/Cert	UL-EU-00642-EN-Flexi-Coat-V2.pdf	
FSI PyroPro HPE	Safety Data Sheet	SDS010-PyroPro-HPE-26-GB-8.0.pdf	Revision 1 - 05/01/2024
	Technical Data Sheet	TDS007-2.3-PyroPro-HPE-Jun-2024.pdf	
	Installation Guide/Cert	UL-EU-00770-EN.doc.pdf	
Promatect - 250	Safety Data Sheet	promat_sds_promatect_250_29112013_wm.pdf	Revision 1 - 05/01/2024
	Technical Data Sheet	promat_promatect_250_av-tables_010122_wm.pdf	
	Installation Guide	promat_tds176_promatect_250_60-90-120minutes_protectiontowindposts-may23_wm.pdf	

Quelfire Product	Document Type	Manufacturers Product Download Hyperlink.	Introduced
FJ400 - Intuspan	Safety Data Sheet	FJ400 Intuspan Intumescence Joint Filler Nullifire UK	Revision 1 - 05/01/2024
	Technical Data Sheet	FJ400 Intuspan Intumescence Joint Filler Nullifire UK	
	Installation Guide	FJ400 Intuspan Intumescence Joint Filler Nullifire UK	
FB750 Fire Batt	Safety Data Sheet	FB750 Intubatt Coated Batt Nullifire UK	Revision 1 - 05/01/2024
	Technical Data Sheet	FB750 Intubatt Coated Batt Nullifire UK	
	Installation Guide	FB750 Intubatt Coated Batt Nullifire UK	
FS702 Acrylic Sealant	Safety Data Sheet	FS702 Intumastic Fire Resistant Acrylic Sealant Nullifire UK	Revision 1 - 05/01/2024
	Technical Data Sheet	FS702 Intumastic Fire Resistant Acrylic Sealant Nullifire UK	
	Installation Guide	FS702 Intumastic Fire Resistant Acrylic Sealant Nullifire UK	
FS709 HPE Sealant	Safety Data Sheet	FS709 HP Intumescence Sealant Nullifire UK	Revision 1 - 05/01/2024
	Technical Data Sheet	FS709 HP Intumescence Sealant Nullifire UK	
	Installation Guide	FS709 HP Intumescence Sealant Nullifire UK	

Quelfire Product	Document Type	Manufacturers Product Download Hyperlink.	Introduced
FS719 HPE Blue Sealant	Safety Data Sheet	FS719 HP Blue for CPVC Nullifire UK	Revision 1 - 05/01/2024
	Technical Data Sheet	FS719 HP Blue for CPVC Nullifire UK	
	Installation Guide	FS719 HP Blue for CPVC Nullifire UK	
FP302 Intustrap	Safety Data Sheet	FP302 Intustrap Intumescent Strap Nullifire UK	Revision 1 - 05/01/2024
	Technical Data Sheet	FP302 Intustrap Intumescent Strap Nullifire UK	
	Installation Guide	FP302 Intustrap Intumescent Strap Nullifire UK	

Quelfire Technical Submissions - SVP penetrations.

Service Type and Required Rating.	Page No.	Manufacturers Technical Submission Reference.	Introduced
Void Cast in Collar	18	QF2-CF150-00A-Blank-seal-for-a-rigid-floor.pdf	Revision 1 - 05/01/2024
Plastic Pipe Coupling	19	QWR-CF150-07-Plastic-Pipe-Coupling-penetrating-a-rigid-floor.pdf	Revision 1 - 05/01/2024
Plastic Pipe Collar	20	QWR-CF150-01-Plastic-Pipe-penetrating-a-rigid-floor.pdf	Revision 1 - 05/01/2024
Plastic Pipe Quelcoil Wrap	21	QWW-CF150-01-Plastic-Pipe-penetrating-a-rigid-floor.pdf	Revision 1 - 05/01/2024
Plastic Pipe Pattress with Quelcoil Wrap (Underside)	22	QB-CF150-P-06-Plastic-Pipe-penetrating-a-rigid-floor-QuelCoil.pdf Page 1.	Revision 1 - 05/01/2024
Plastic Pipe Pattress with Quelcoil Wrap (Topside)	23	QB-CF150-P-06-Plastic-Pipe-penetrating-a-rigid-floor-QuelCoil.pdf Page 4.	Revision 1 - 05/01/2024
Plastic Pipe Abutting Wall - Pattress with Quelcoil Wrap and HPE (Topside)	24	QB-CF150-P-06-Plastic-Pipe-penetrating-a-rigid-floor-QuelCoil.pdf Page 6.	Revision 1 - 05/01/2024

Void Cast in Collar (EI90 required)

[QF2-CF150-00A-Blank-seal-for-a-rigid-floor.pdf](#)

The existing collar to be removed by others.

QF2-CF150-00A

Blank Seal for rigid floor

This standard detail is intended for general information only and all details should be checked against all relevant supporting test evidence, certification and installation guidelines. In line with the company's policy of continual development, details are subject to change and/or withdrawal therefore you must ensure this is the latest published detail and instructions.

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Additional Instructions

The floor must have a minimum thickness of 150mm and comprise of concrete, or aerated concrete, with a minimum density of 650kg/m³.

For further information on the installation of QF2 Fire Protection use the [QF2 installation guidance document](#).

QF2 Compound

Concrete Floor

Quelfire Products Required

Product Code	Description
QF2	QF2 Fire Protection Compound
MW/SLAB	Quelfire MW Shuttering Slab

Seal Size **Classification**

2500mm x 2000mm **	EI 120
--------------------	--------

** Refer to page 16 of the QF2 Classification Report for other aperture sizes

To be read in conjunction with: [UL Classification Report 4790096347 Issue 5](#)
Pages 16 & 19

Test standard:	BS EN1366-3 & EN13501-2
Substrate minimum thickness:	150mm
QF2 Fire Protection Compound minimum thickness:	100mm
Maximum aperture size:	2500mm x 2000mm **
** Refer to page 16 of the QF2 Classification Report for a table of further aperture sizes where one side can be increased if one is decreased.	
Drawing Scale:	Not to Scale
Issue Number:	1
Date of Issue:	April 2024
Detail Reference:	QF2-CF150-00A

Important Information:

- The supporting construction must be installed in accordance with the manufacturer's guidelines and must be capable of achieving the required fire rating of the firestop.
- All services should be adequately supported on both sides of the firestop to ensure that no load is transferred onto the firestop seal.

Scope and Liability:

- Any information provided by or on behalf of Quelfire Limited is provided for general information only. It is not intended to amount to advice on which you should rely. You must obtain professional or specialist advice before taking, or refraining from, any recommendation or action.
- The summary is not exhaustive and does not consider all issues relevant to the enquiry. It is limited to the information and time available to us. We have not verified any information made available to us by you or any other source, nor have we carried out a physical inspection of any property. We make no representations, warranties or guarantees, whether expressed or implied, that any information is accurate, complete or up to date.
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Plastic Coupling (El90 required)

[QWR-CF150-07-Plastic-Pipe-Coupling-penetrating-a-rigid-floor.pdf](#)

QWR-CF150-07

Plastic Pipe Coupling penetrating a rigid floor (150mm or thicker)



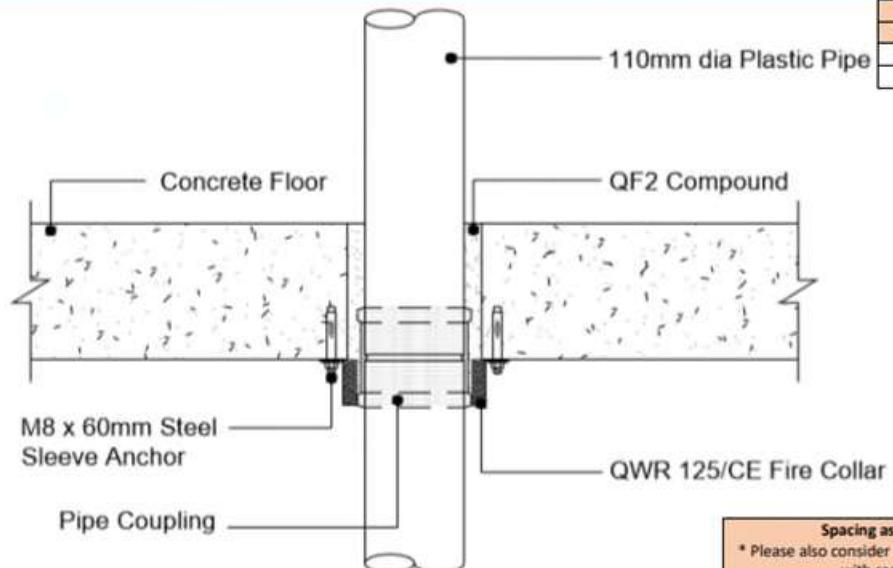
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Additional Instructions

The floor must have a minimum thickness of 150mm and comprise of concrete or aerated concrete, with a minimum density of 670kg/m³.

The QWR Fire Collar is secured using M8 x 60mm steel sleeve anchors through all fixing lugs.

BS EN 1366-3:2021 Section 13.7: The distance between the aperture edges of penetration seals in a building element shall be as tested or minimum 100mm. The distance between the aperture edge of a penetration seal and any other penetration (e.g., door) in a building element shall be minimum 200mm.



Quelfire Products Required	
Product Code	Description
QWR125/CE	Fire Collar for 125mm pipes
QF2	QF2 Fire Protection Compound

Spacing as per BS EN 1366-3: 2021, Section 13.7

* Please also consider any requirements that the floor manufacturer has with regards to spacing between openings.

Minimum distance from edge of opening to another aperture with a service penetration tested to BS EN 1366-3	100mm*
---	--------

Minimum distance from edge of opening to another aperture with a penetration <u>not</u> tested to BS EN 1366-3	200mm*
--	--------

To be read in conjunction with:	WF Test Report 366873 – Specimen K
Test standard:	BS EN1366-3
Substrate minimum thickness:	150mm
First service support:	≤250mm
Drawing Scale:	Not to Scale
Issue Number:	3
Date of Issue:	January 2023
Detail Reference:	QWR-CF150-07

Service Type	Size of Services	Pipe Wall Thickness	QWR/CE Fire Collar	Fire rating
U-PVC Pipe Coupling	Ø110mm	3.2mm	QWR125/CE	240 minutes Integrity U/C 240 minutes Insulation U/C

Important Information:

1. The supporting construction must be installed in accordance with the manufacturer's guidelines and must be capable of achieving the required fire rating of the firestop.
2. All services should be adequately supported either side of the firestop to ensure that no load is transferred onto the firestop seal.

Scope and Liability:

1. Any information provided by or on behalf of Quelfire Limited is provided for general information only. It is not intended to amount to advice on which you should rely. You must obtain professional or specialist advice before taking, or refraining from, any recommendation or action.
2. The summary is not exhaustive and does not consider all issues relevant to the enquiry. It is limited to the information and time available to us. We have not verified any information made available to us by you or any other source, nor have we carried out a physical inspection of any property. We make no representations, warranties or guarantees, whether expressed or implied, that any information is accurate, complete or up to date.
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Plastic Pipe Collar (Elgo required)

[QWR-CF150-01-Plastic-Pipe-penetrating-a-rigid-floor.pdf](#)

QWR-CF150-01

Plastic Pipe penetrating a rigid floor (150mm or thicker)

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Additional Instructions

The floor must have a minimum thickness of 150mm and comprise of concrete or aerated concrete, with a minimum density of 670kg/m³.

The QWR Fire Collar is secured using M8 x 60mm steel sleeve anchors through all fixing lugs.

BS EN 1366-3:2021 Section 13.7: The distance between the aperture edges of penetration seals in a building element shall be as tested or minimum 100mm. The distance between the aperture edge of a penetration seal and any other penetration (e.g., door) in a building element shall be minimum 200mm.

Quelfire Products Required

Product Code	Description
QWR??/CE	Fire Collar for plastic pipes. refer to table below

Plastic Pipe Type **Page No.**

U-PVC	1
HDPE	2
PP	3

Concrete Floor

Plastic Pipe

M8 x 60mm Steel Sleeve Anchor

QWR CE Fire Collar

Spacing as per BS EN 1366-3: 2021, Section 13.7

* Please also consider any requirements that the floor manufacturer has with regards to spacing between openings.

Minimum distance from edge of opening to another aperture with a service penetration tested to BS EN 1366-3	100mm*
Minimum distance from edge of opening to another aperture with a penetration <u>not</u> tested to BS EN 1366-3	200mm*

To be read in conjunction with: QWR WF Classification Report 360281/A Issue 5, Pages 58, 59 & 61

Test standard:	BS EN1366-3 & EN13501-2:2016
Substrate minimum thickness:	150mm
First service support:	≤250mm
Drawing Scale:	Not to Scale
Issue Number:	5
Date of Issue:	January 2023
Detail Reference:	QWR-CF150-01

Important Information:

- The supporting construction must be installed in accordance with the manufacturer's guidelines and must be capable of achieving the required fire rating of the firestop.
- All services should be adequately supported either side of the firestop to ensure that no load is transferred onto the firestop seal.

Scope and Liability:

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Plastic Pipe Quelcoil Wrap (Elgo required)

[QWW-CF150-01-Plastic-Pipe-penetrating-a-rigid-floor.pdf](#)

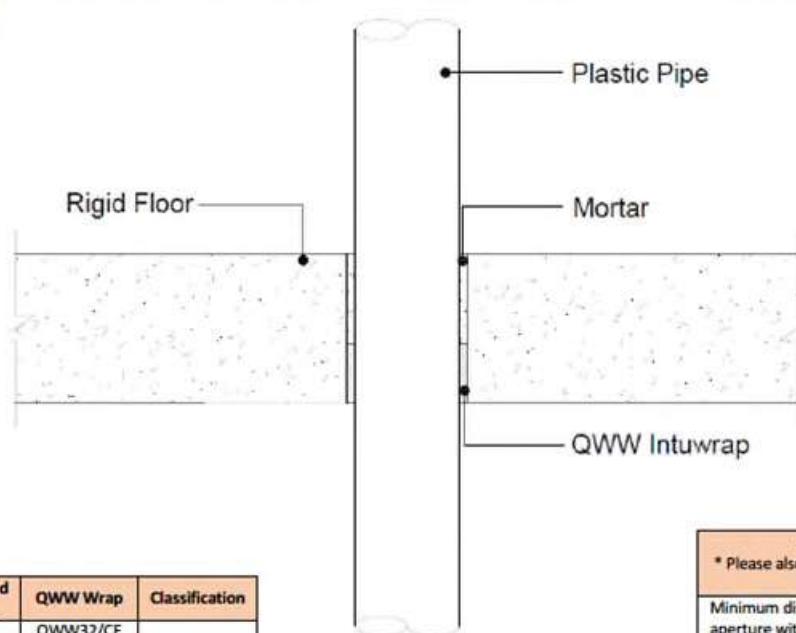
QWW-CF150-01

Plastic Pipe penetrating a rigid floor (150mm or thicker)

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Additional Instructions					
The floor must have a minimum thickness of 150mm and comprise of concrete, aerated concrete or masonry, with a minimum density of 650kg/m ³ .					
Install the correct size QWW Intuwrap around the plastic pipe to the lower side of the seal.					
Quelfire recommend QF2 Fire Protection Compound is then used as the mortar backfill.					
BS EN 1366-3:2021 Section 13.7: The distance between the aperture edges of penetration seals in a building element shall be as tested or minimum 100mm. The distance between the aperture edge of a penetration seal and any other penetration (e.g., door) in a building element shall be minimum 200mm.					



Quelfire Products Required	
Product Code	Description
QF2	QF2 Fire Protection Compound
QWW32/CE	Intuwrap to suit 32mm pipes
QWW40/CE	Intuwrap to suit 40mm pipes
QWW50/CE	Intuwrap to suit 50mm pipes
QWW55/CE	Intuwrap to suit 55mm pipes
QWW63/CE	Intuwrap to suit 63mm pipes
QWW75/CE	Intuwrap to suit 75mm pipes
QWW82/CE	Intuwrap to suit 82mm pipes
QWW90/CE	Intuwrap to suit 90mm pipes
QWW110/CE	Intuwrap to suit 110mm pipes
QWW125/CE	Intuwrap to suit 125mm pipes
QWW160/CE	Intuwrap to suit 160mm pipes

Plastic Pipe Type	Page No.
U-PVC	1
HDPE	2
PP	3

Service Type	Size of Service	Pipe Wall Thickness	Recommend Hole Dia.	QWW Wrap	Classification
PP	Ø32mm	See Graph on ETA	Ø40mm	QWW32/CE	EI 240 U/C
	Ø40mm		Ø50mm	QWW40/CE	
	Ø50mm		2.0 – 4.6mm	Ø60mm	
	Ø55mm		Ø74mm	QWW55/CE	
	Ø63mm		Ø82mm	QWW63/CE	
	Ø75mm		Ø94mm	QWW75/CE	
	Ø82mm		Ø102mm	QWW82/CE	
	Ø90mm		Ø110mm	QWW90/CE	
	Ø110mm		2.7 – 10.0mm	Ø132mm	QWW110/CE
	Ø125mm		See Graph on ETA	Ø155mm	QWW125/CE
	Ø160mm		9.1mm	Ø204mm	QWW160/CE
EI 45 U/C					

Important Information:

- The supporting construction must be installed in accordance with the manufacturer's guidelines and must be capable of achieving the required fire rating of the firestop.
- All services should be adequately supported either side of the firestop to ensure that no load is transferred onto the firestop seal.

Scope and Liability:

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- Full terms and conditions of sale are available at <https://www.quelfire.co.uk/terms-conditions.aspx>.

Spacing as per BS EN 1366-3: 2021, Section 13.7
* Please also consider any requirements that the floor manufacturer has with regards to spacing between openings.

Minimum distance from edge of opening to another aperture with a service penetration tested to BS EN 1366-3	100mm*
Minimum distance from edge of opening to another aperture with a penetration not tested to BS EN 1366-3	200mm*

To be read in conjunction with:	QWW CE Marked Intuwrap ETA 20-1205 pages 13 - 14
Test standard:	BS EN1366-3:2009 & EN13501-2:2016
Substrate minimum thickness:	150mm
First service support:	s250mm
Drawing Scale:	Not to Scale
Issue Number:	4
Date of Issue:	January 2023
Detail Reference:	QWW-CF150-01

Plastic Pipe Pattress with Quelcoil Wrap (Underside - Elgo required)

QB-CF150-P-06-Plastic-Pipe-penetrating-a-rigid-floor-QuelCoil.pdf Page 1.

QB-CF150-P-06

This standard detail is intended for general information only and all details should be checked against all relevant supporting test evidence, certification and installation guidelines. In line with the company's policy of continual development, details are subject to change and/or withdrawal therefore you must ensure this is the latest published detail and instructions.

Additional Instructions	
The floor must have a minimum thickness of 150mm and comprise of concrete, aerated or concrete, with a minimum density of 670kg/m ³ .	
Multiple Service Penetrations: The total amount of cross section area of the services (including insulation) should not exceed 60% of the service penetration area.	

Detail	Page No.
Underside 400 x 400mm	1
Underside 1100 x 1300mm	2
Underside 500 x 400mm	3
Topside (oversized hole)	4
Topside (correct sized hole)	5
Topside (close to corner)	6
Topside (close to corner)	7

Service Type	Size of Services	Pipe Wall Thickness	QuelCoil Layers Required	Classification
U-PVC	sØ50mm	2.4mm	1 x 2mm Layer	E 120 U/C EI 90 U/C
	Ø51 - Ø75mm	2.5 - 4.2mm	2 x 2mm Layers	
	Ø76 - Ø110mm	4.2 - 6.6mm	3 x 2mm Layers	
PE, PE-X, ABS, SAN-PVC* Pipe	sØ50mm	3.0mm	1 x 2mm Layer	
	Ø51 - Ø75mm	3.1 - 5.9mm	2 x 2mm Layers	
	Ø76 - Ø110mm	3.4 - 10.0mm	3 x 2mm Layers	
PP	sØ50mm	2.0mm	1 x 2mm Layer	
	Ø51 - Ø75mm	2.1 - 5.3mm	2 x 2mm Layers	
	Ø76 - Ø110mm	2.7 - 10.0mm	3 x 2mm Layers	

*PE in accordance with EN1519-1, EN1266-1, EN 12201-2 and EN ISO 15494, PE-X in accordance with EN ISO 15875-2, ABS in accordance with EN 1455-1 and EN ISO 15493 as well as SAN+PVC in accordance with ISO 19220

Plastic pipe penetrating a rigid floor (150mm or thicker)

Quelfire
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Product Code	Description
QB50D	QuelStop Fire Batt
QUELCOIL	QuelCoil Continuous Intwrap
QSS310	QuelStop Intumescent Acrylic Sealant
QSC5KG	QuelStop Ablative Coating Skg tub
Fixings	Select correct substrate fixing

QuelStop Fire Batt Fixing Instruction
Follow the installation steps referenced in the [QuelStop Fire Batt installation guidance](#) document.

QuelStop Fire Batt overlap to substrate is ≥50mm on all sides. First QuelStop Fire Batt layer installed within the slab using QuelStop Acrylic Sealant. Second layer of QuelStop Fire Batt mechanically fixed using 6mm x 100mm countersunk concrete screws with 25mm dia. steel retaining washers. Fixings installed in the centre of the QuelStop Fire Batt overlap at maximum 250mm centres and in every corner of the QuelStop Fire Batt Seal.

Multiple Service Penetration Spacing	
Distances are from edge of fire stop seal	
Minimum distance from edge of opening	0mm
Minimum distance between Services within the table shown	0mm
Minimum distance between other Service types	100mm

To be read in conjunction with: [UL Classification Report 4790517197 Issue 3, Pages 282, 283 & 301](#)

Test & Classification standard:	BS EN1366-3 & EN13501-2
Substrate minimum thickness:	150mm
First Service Support:	≤400mm
Maximum Aperture:	400mm wide x 400mm long
Drawing Scale:	Not to Scale
Issue Number:	3
Date of Issue:	September 2023
Detail Reference:	QB-CF150-P-06

Document Reference: PP-BP-C30072-05012024 Rev.2.0 23

Plastic Pipe Pattress with Quelcoil Wrap (Topside - Elgo required)

QB-CF150-P-06-Plastic-Pipe-penetrating-a-rigid-floor-QuelCoil.pdf Page 4.

QB-CF150-P-06

This standard detail is intended for general information only and all details should be checked against all relevant supporting test evidence, certification and installation guidelines. In line with the company's policy of continual development, details are subject to change and/or withdrawal therefore you must ensure this is the latest published detail and instructions.

Additional Instructions	
The floor must have a minimum thickness of 150mm and comprise of concrete, aerated or concrete, with a minimum density of 670kg/m ³ .	
Multiple Service Penetrations: The total amount of cross section area of the services (including insulation) should not exceed 60% of the service penetration area.	

Detail	Page No.
Underside 400 x 400mm	1
Underside 1100 x 1300mm	2
Underside 500 x 400mm	3
Topside (oversized hole)	4
Topside (correct sized hole)	5
Topside (close to corner)	6
Topside (close to corner)	7

Service Type	Size of Services	Pipe Wall Thickness	QuelCoil Layers Required	Classification
U-PVC	≤Ø50mm	2.4mm	1 x 2mm Layer	EI 120 U/C
	Ø51 – Ø75mm	2.5 – 4.2mm	2 x 2mm Layers	
	Ø76 – Ø110mm	4.2 – 6.6mm	3 x 2mm Layers	
PE, PE-X, ABS, SAN-PVC* Pipe	≤Ø50mm	3.0mm	1 x 2mm Layer	
	Ø51 – Ø75mm	3.1 – 5.9mm	2 x 2mm Layers	
	Ø76 – Ø110mm	3.4 – 10.0mm	3 x 2mm Layers	
PP	≤Ø50mm	2.0mm	1 x 2mm Layer	
	Ø51 – Ø75mm	2.1 – 5.3mm	2 x 2mm Layers	
	Ø76 – Ø110mm	2.7 - 10.0mm	3 x 2mm Layers	

*PE in accordance with EN1519-1, EN1266-1, EN 12201-2 and EN ISO 15494, PE-X in accordance with EN ISO 15875-2, ABS in accordance with EN 1455-1 and EN ISO 15493 as well as SAN+PVC in accordance with ISO 19220

Plastic pipe penetrating a rigid floor (150mm or thicker)

Quelfire
PROTECTING PEOPLE & PROPERTY

Quelfire Products Required	
Product Code	Description
QBS0D	QuelStop Fire Batt
QUELCOIL	QuelCoil Continuous Intwrap
QSS310	QuelStop Intumescent Acrylic Sealant
QSC5KG	QuelStop Ablative Coating 5kg tub
Fixings	Select correct substrate fixing

QuelStop Fire Batt Fixing Instruction

Follow the installation steps referenced in the [QuelStop Fire Batt installation guidance](#) document.

QuelStop Fire Batt overlap to substrate is ≥50mm on all sides. First QuelStop Fire Batt layer bedded to the slab using QuelStop Acrylic Sealant and mechanically fixed using the following fixing types depending on aperture size. 6mm x 100mm countersunk concrete screws with 25mm dia. steel retaining washers. Fixings installed in the centre of the QuelStop Fire Batt overlap in every corner of the QuelStop Fire Batt Seal. Second QuelStop pattress layer fixed to the first layer using Quelfire 90mm long pigtail screws.

To be read in conjunction with:	UL Classification Report 4790517197 Issue 3 , Pages 282, 283 & 304
Test & Classification standard:	BS EN1366-3 & EN13501-2
Substrate minimum thickness:	150mm
First Service Support:	≤400mm
Maximum Aperture:	200mm wide x 200mm long
Drawing Scale:	Not to Scale
Issue Number:	3
Date of Issue:	September 2023
Detail Reference:	QB-CF150-P-06

Document Reference: PP-BP-C30072-05012024 Rev.2.0 24

Plastic Pipe Pattress with Quelcoil Wrap and HPE (Topside - EI90 required)

[QB-CF150-P-06-Plastic-Pipe-penetrating-a-rigid-floor-QuelCoil.pdf](#) Page 6.

QB-CF150-P-06

This standard detail is intended for general information only and all details should be checked against all relevant supporting test evidence, certification and installation guidelines. In line with the company's policy of continual development, details are subject to change and/or withdrawal therefore you must ensure this is the latest published detail and instructions.

Additional Instructions	
<p>The floor must have a minimum thickness of 150mm and comprise of concrete, aerated or concrete, with a minimum density of 670kg/m³.</p> <p>QuelStop HPE sealant to be trowel applied between wall and pipe to depth of 100mm.</p> <p>Multiple Service Penetrations: The total amount of cross section area of the services (including insulation) should not exceed 60% of the service penetration area</p>	
Detail	Page No.
Underside 400 x 400mm	1
Underside 1100 x 1300mm	2
Underside 500 x 400mm	3
Topside (oversized hole)	4
Topside (correct sized hole)	5
Topside (close to corner)	6
Topside (close to corner)	7

Service Type	Size of Services	Pipe Wall Thickness	QuelCoil Layers Required	Classification
U-PVC	≤Ø50mm	2.4mm	1 x 2mm Layer	EI 120 U/C
	Ø51 - Ø75mm	2.5 - 4.2mm	2 x 2mm Layers	
	Ø76 - Ø110mm	4.2 - 6.6mm	3 x 2mm Layers	
PE, PE-X, ABS, SAN-PVC* Pipe	≤Ø50mm	3.0mm	1 x 2mm Layer	
	Ø51 - Ø75mm	3.1 - 5.9mm	2 x 2mm Layers	
	Ø76 - Ø110mm	3.4 - 10.0mm	3 x 2mm Layers	
PP	≤Ø50mm	2.0mm	1 x 2mm Layer	
	Ø51 - Ø75mm	2.1 - 5.3mm	2 x 2mm Layers	
	Ø76 - Ø110mm	2.7 - 10.0mm	3 x 2mm Layers	

*PE in accordance with EN1519-1, EN1266-1, EN 12201-2 and EN ISO 15494, PE-X in accordance with EN ISO 15875-2, ABS in accordance with EN 1455-1 and EN ISO 15493 as well as SAN+PVC in accordance with ISO 19220

Important Information:

1. The supporting construction must be installed in accordance with the manufacturer's guidelines and must be capable of achieving the required fire rating of the firestop.
2. All services should be adequately supported on both sides of the firestop to ensure that no load is transferred onto the firestop seal.

Scope and Liability:

1. Any information provided by or on behalf of Quelfire Limited is provided for general information only. It is not intended to amount to advice on which you should rely. You must obtain professional or specialist advice before taking, or refraining from, any recommendation or action.
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Plastic pipe penetrating a rigid floor (150mm or thicker)

Quelfire
PROTECTING PEOPLE & PROPERTY

Quelfire Products Required	
Product Code	Description
QBS0D	QuelStop Fire Batt
QUELCOIL	QuelCoil Continuous Intuwrap
QHPE310	QuelStop HPE Graphite Sealant
QSS310	QuelStop Intumescent Acrylic Sealant
QSC5KG	QuelStop Ablative Coating 5kg tub
Fixings	Select correct substrate fixing

QuelStop Fire Batt Fixing Instruction
Follow the installation steps referenced in the [QuelStop Fire Batt installation guidance](#) document.

QuelStop Fire Batt overlap to substrate is ≥50mm on 3 sides. First QuelStop Fire Batt layer bedded to the slab using QuelStop Acrylic Sealant and mechanically fixed using the following fixing types depending on aperture size. 6mm x 100mm countersunk concrete screws with 25mm dia. steel retaining washers. Fixings installed in the centre of the QuelStop Fire Batt overlap at maximum 250mm centres and in every corner of the QuelStop Fire Batt Seal. Second QuelStop pattress layer fixed to the first layer using Quelfire 90mm long pigtail screws.

To be read in conjunction with:	UL Classification Report 4790517197 Issue 3 , Pages 282, 283 & 306
Test & Classification standard:	BS EN1366-3 & EN13501-2
Substrate minimum thickness:	150mm
First Service Support:	≤400mm
Maximum Aperture:	390mm wide x 200mm long
Drawing Scale:	Not to Scale
Issue Number:	3
Date of Issue:	September 2023
Detail Reference:	QB-CF150-P-06

Document Reference: PP-BP-C30072-05012024 Rev.2.0 25

Quelfire Product Data Sheets & Installation Guides 1/2



Quelfire Product	Document Type	Manufacturers Product Download Hyperlink.	Introduced
QRS Fire Sleeve	Safety Data Sheet	Microsoft Word - MSDS - QuelStop Fire Batt (quelfire.co.uk)	Revision 2 - 12/08/2024
	Technical Data Sheet	Quelfire-QRS-Intumescent-Slim-Fire-Sleeve-for-Plastic-Vent-Ducts-Product-Data-Sheet.pdf	
	Installation Guide	Quelfire-QRS-QRS-Slim-Intumescent-Fire-Sleeves-for-Plastic-Vent-Ducts-Installation-Instructions.pdf	
Quelstop Fire Batt	Safety Data Sheet	Microsoft Word - MSDS - QuelStop Fire Batt (quelfire.co.uk)	Revision 2 - 12/08/2024
	Technical Data Sheet	Quelfire-QB50-QuelStop-Ablative-Coated-Mineral-Wool-Fire-Batt-Product-Data-Sheet.pdf	
	Installation Guide	Quelfire - QB50 - QuelStop Ablative Coated Mineral Wool Fire Batt - Installation Instructions	
Quelstop Acrylic Sealant	Safety Data Sheet	Microsoft Word - MSDS - QuelStop Fire Batt (quelfire.co.uk)	Revision 2 - 12/08/2024
	Technical Data Sheet	Quelfire-QSS-QuelStop-Intumescent-Acrylic-Sealant-Product-Data-Sheet.pdf	
	Installation Guide	Quelfire-QSS-QuelStop-Intumescent-Acrylic-Sealant-Installation-Instructions.pdf	
Quelstop HPE Sealant	Safety Data Sheet	Microsoft Word - MSDS - QuelStop Fire Batt (quelfire.co.uk)	Revision 2 - 12/08/2024
	Technical Data Sheet	Quelfire-QHPE-QuelStop-HPE-Intumescent-Graphite-Sealant-Product-Data-Sheet.pdf	
	Installation Guide	Quelfire-QHPE-QuelStop-HPE-Intumescent-Graphite-Sealant-Installation-Instructions.pdf	

Quelfire Product Data Sheets & Installation Guides 2/2



Quelfire Product	Document Type	Manufacturers Product Download Hyperlink.	Introduced
Quelstop QI Intufoam	Safety Data Sheet	Microsoft Word - MSDS - QuelStop Fire Batt (quelfire.co.uk)	Revision 2 - 12/08/2024
	Technical Data Sheet	Quelfire-QI-Intufoam-Intumescent-Foam-Linear-Gap-Seal-Product-Data-Sheet.pdf	
	Installation Guide	Quelfire-QI-Intufoam-Intumescent-Foam-Linear-Gap-Seal-Installation-Instructions.pdf	
Quelstop QF2 Compound	Safety Data Sheet	Microsoft Word - MSDS - QuelStop Fire Batt (quelfire.co.uk)	Revision 2 - 12/08/2024
	Technical Data Sheet	Quelfire-QF2-Fire-Protection-Compound-Product-Data-Sheet.pdf	
	Installation Guide	Quelfire-QF2-Fire-Protection-Compound-Installation-Instructions.pdf	
QuelCoil Intuwrap	Safety Data Sheet	Microsoft Word - MSDS - QuelStop Fire Batt (quelfire.co.uk)	Revision 2 - 12/08/2024
	Technical Data Sheet	Quelfire-QuelCoil-Intuwrap-Continuous-Intumescent-Pipe-Wrap-Product-Data-Sheet.pdf	
	Installation Guide	Quelfire-QuelCoil-Intuwrap-Continuous-Intumescent-Pipe-Wrap-Installation-Instructions.pdf	



Fire Shield Ltd are 3rd party FIRAS accredited installers of certified passive fire protection products and systems, therefore hold no design responsibility. It is a requirement that details issued are reviewed and accepted by the project fire engineer or person responsible for design.



This project pack has been reviewed, acknowledged and authorised for implementation on behalf of Higgins:

Sign:_____

Print:_____

Date:_____