



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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Site specific installation types (Wall Penetrations)

Item type	Page No.	Manufacturers Technical Submission Reference.	Introduced
Flat Entrance Door Letterbox – Multi-service El60.	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/F1025 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

Head of Wall Linear Gap Seal (Elgo required)
FJ400 (El120 achieved)

up to
120
mins

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 (<= 75%), 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 or airtightness / watertightness requirement, use FS703 to the exposed face, minimum 3 mm thickness.

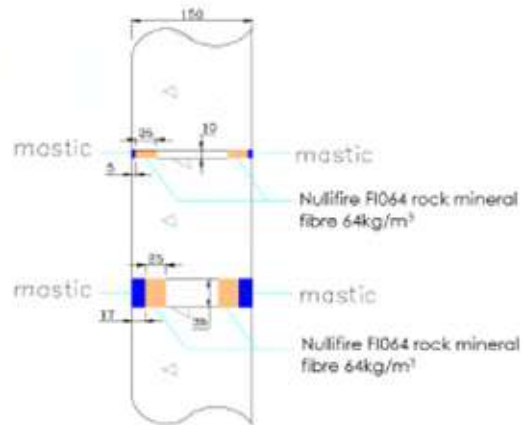
Wall Joint Linear Gap Seal (Elgo required)
FFS702 (El240 achieved)

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

Joint Seal: Nullifire FS702 to the both faces of the wall, joint widths up to 35 mm

Construction details:



A.2.3.1

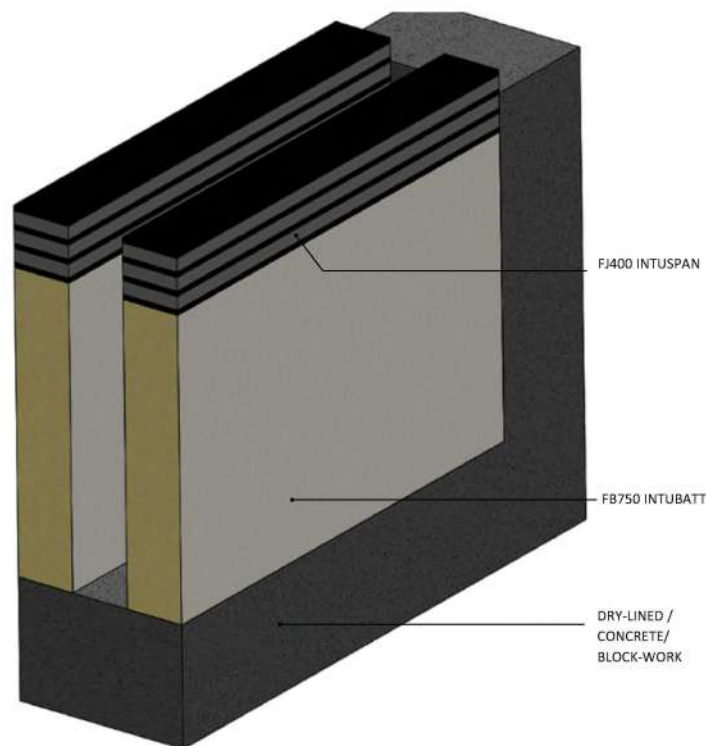
Substrate	Min. Depth (mm)	Backing	Classification
Masonry/ concrete	5	25 mm deep Nullfire F1064 rock mineral fibre 64kg/m ³ , compressed by 30%	EI 240 – T – X – F – W 05 to W 10
	17		EI 240 – T – X – F – W 05 to W 35

Service Riser 3-Sided Letterbox – Base Detail (Elgo required).
FJ400/FB750 Base Detail (El120 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 Intubut to form upright element ensuring compression is achieved to two opposing sides (left & right), allowing for a 50mm on top edge.
3. Apply FS702 Intumatic 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 Intumatic with a damp cloth.



Additional Notes:

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

Test Information:

Standard (Ref): WF529169 (Tested to BSEN 1366 - 3)

Products: FB750 INTUBATT,
FS702INTUMASTIC,
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:

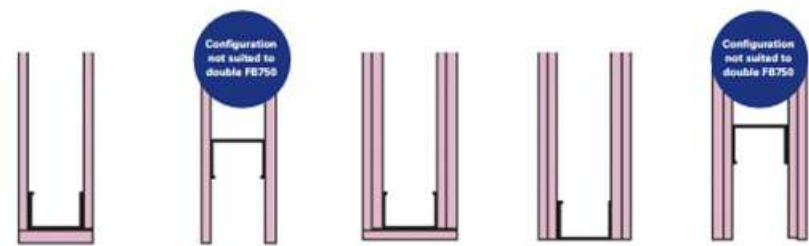
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Rev: 1.0

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

FB750 + FS702/FS709 (Elgo)

Seal Requirements / Tested Additional Required Products / Typical Results

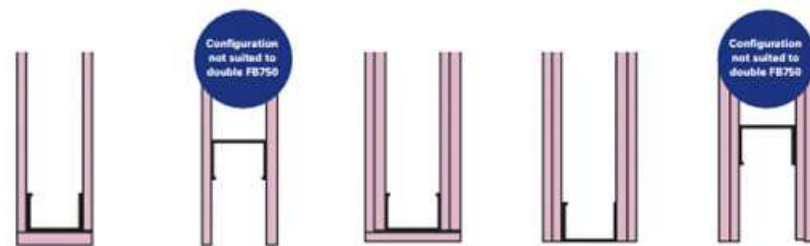


Cables Carriers / Cable Trays - Double Batt Compression

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

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 Nullifire FB750.

Seal Requirements / Tested Additional Required Products / Typical Results



Cable Bundles - Double Batt Compression

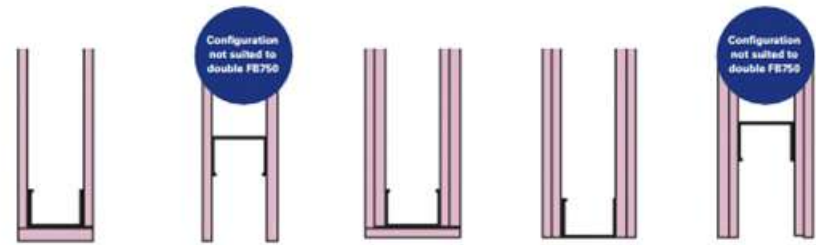
Integrity		Integrity & Insulation
FB750 + FS702 = E 120		FB750 + FS702 = Ei 90
FB750 + FS702 + FI025 = E 120		FB750 + FS702 + FI025 = Ei 120
FB750 + FS709 = E 120		FB750 + FS709 = Ei 90
FB750 + FS709 + FI025 = E 120		FB750 + FS709 + FI025 = Ei 120
FB750 + FS709 = E 120		FB750 + FS709 = Ei 90
FB750 + 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 Nullifire FB750.

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

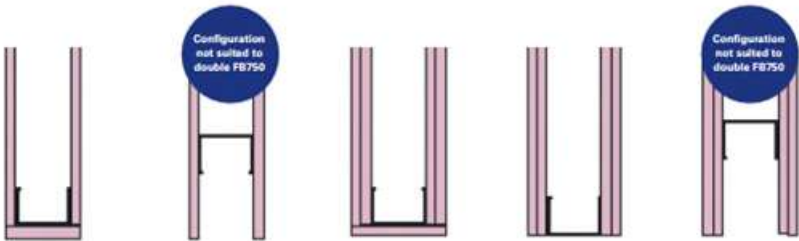
FB750 + FS719 (El120)

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		Integrity & Insulation
FB750 + FP302 + FS702 = E 120	Combustible Pipe	FB750 + FP302 + FS702 = E1 120
FB750 + FS709 = E 120	Combustible Pipe	FB750 + FS709 = E1 120
FB750 + FP220 + FS702 = E 120	Combustible Pipe	FB750 + FP220 + FS702 = E1 120
FB750 + FP170 + FS702 = E 120	Combustible Pipe	FB750 + FP170 + FS702 = E1 120
FB750 + FS719 = E 120	CPVC ONLY	FB750 + FS719 = E1 120
FB750 + FS719 = E 120	CPVC ONLY	FB750 + FS719 = E1 120
FB750 + FS709 = E 120	Flat Plastic Duct PVC	FB750 + FS709 = E1 120
FB750 + FP220 + FS702 = E 120	Flat Plastic Duct PVC	FB750 + FP220 + FS702 = E1 120


Integrity		Integrity & Insulation
FB750 + FP302 + FS702 = E 120	Mineral Fibre Insulated	FB750 + FP302 + FS702 = E1 120
FB750 + FS709 = E 120	Mineral Fibre Insulated	FB750 + FS709 = E1 120
FB750 + FP302 + FS702 = E 120	PR/Thenolic Insulated	FB750 + FP302 + FS702 = E1 120
FB750 + FS709 = E 120	PR/Thenolic Insulated	FB750 + FS709 = E1 120
FB750 + FP302 + FS702 = E 120	Rubberoid Insulated	FB750 + FP302 + FS702 = E1 120
FB750 + FS709 = E 120	Rubberoid Insulated	FB750 + FS709 = E1 120

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 Nullifire 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 Nullifire FB750.

Mechanical Riser 14mm copper pipe (Elgo required).

FB750 + FI025 (EI120)



Seal E1
WF415539

100

50mm Stonewool 45kg/m3
2no. Layers of Plasterboard
12.5mm Thick

Aperture Framing

FB750

FS702

Support System

0,6

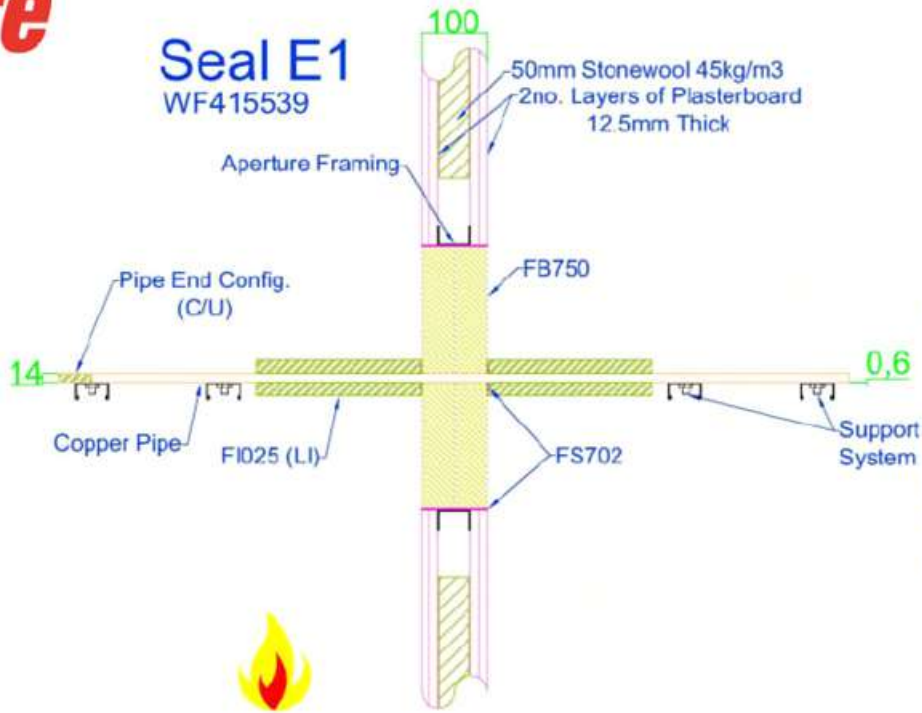
14

Pipe End Config.
(C/U)

Copper Pipe

FI025 (L.I)


Tested to EN 1366-3



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.



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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/V 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 ENCASMENT

INSTALLATION

- Where PROMATECT[®] 250 boards will remain PROMATECT[®], 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 self shed 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 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 73mm 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.

Table 1 below indicates the thickness of PROMATECT®-250 board required.

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 ENCASMENT

Promact® 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

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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 VIA 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 substrate
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)

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inspiring ways
of living

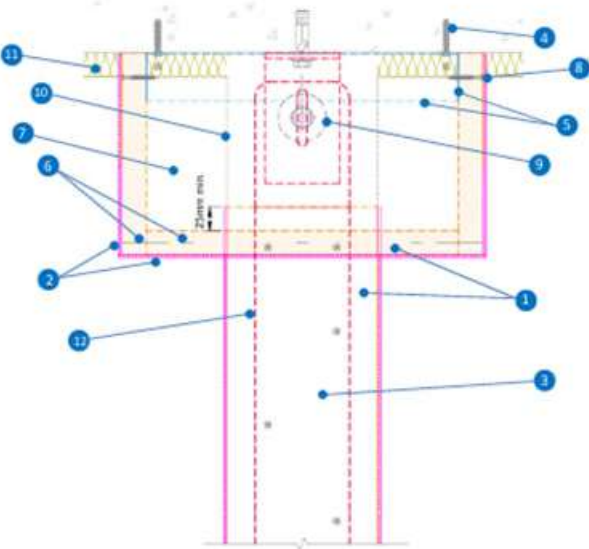
Windpost 2-Sided Deflection Head Detail.

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 C/S 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 Firestopping 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.

AUTHORITY: INDICATIVE DETAIL - TO BE CHECKED AND APPROVED BY AN APPROPRIATE 3RD PARTY



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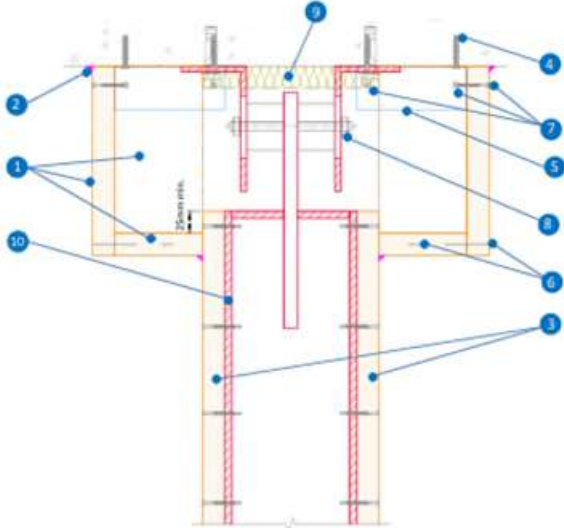


Promat

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 C/S 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 Firestopping 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.

AUTHORITY: INDICATIVE DETAIL - TO BE CHECKED AND APPROVED BY AN APPROPRIATE 3RD PARTY



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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 Intumescent Joint Filler Nullifire UK	Revision 1 - 05/01/2024
	Technical Data Sheet	FJ400 Intuspan Intumescent Joint Filler Nullifire UK	
	Installation Guide	FJ400 Intuspan Intumescent 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 Intumescent Sealant Nullifire UK	Revision 1 - 05/01/2024
	Technical Data Sheet	FS709 HP Intumescent Sealant Nullifire UK	
	Installation Guide	FS709 HP Intumescent 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 (Elgo required)

QF2-CF150-00A-Blank-seal-for-a-rigid-floor.pdf

The existing collar to be removed by others.

QF2-CF150-00A

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Blank Seal for rigid floor

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](#).

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.
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- We do not accept a duty of care to you or any other person in respect of the enquiry, nor do we accept any liability to you or any other person for any loss arising out of or in connection with the enquiry or any reply provided by us. Different limitations and exclusions of liability arising as a result of the supply of any products or services by us to you, and these will be set out in our terms and conditions of supply, a copy of which is available on request.
- Full terms and conditions of sale are available at <https://www.quelfire.co.uk/terms-conditions-of-sale/>

Plastic Coupling (Elgo 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)



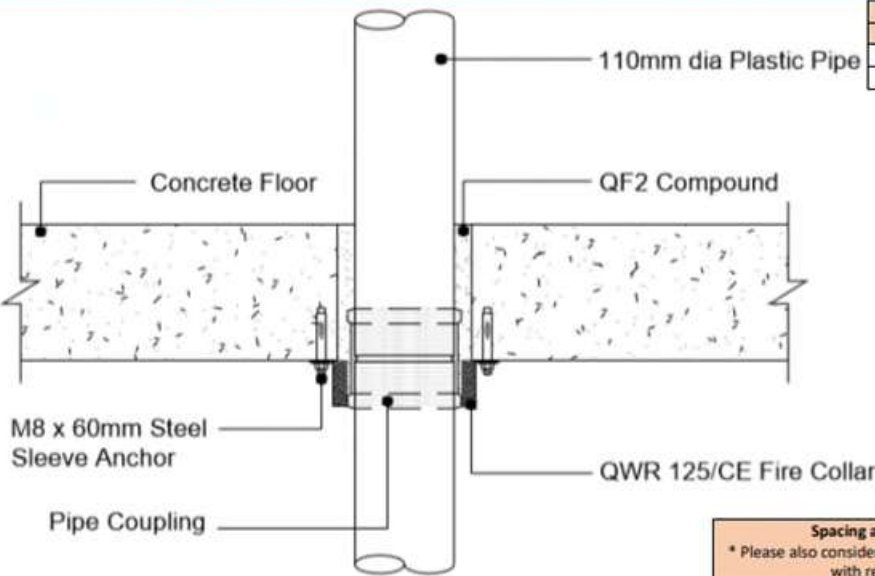
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Additional Instructions

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*

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

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

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

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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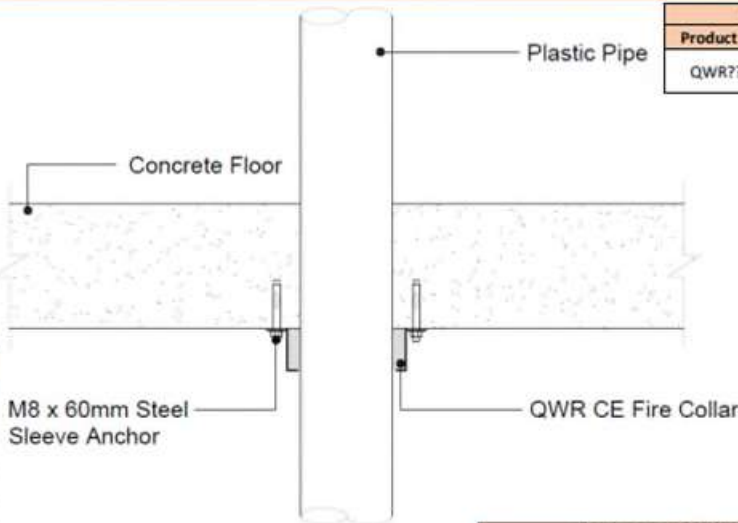
Additional Instructions

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



Service Type	Size of Service	Pipe Wall Thickness	Recommend Hole Dia.	QWR Collar	Classification
pp	Ø25mm	1.8 - 3.7mm	Ø27mm	QWR25/CE	EI 240 U/C
	Ø32mm		Ø34mm	QWR32/CE	
	Ø40mm		Ø42mm	QWR40/CE	
	Ø50mm	2.0 - 3.5mm	Ø52mm	QWR50/CE	EI 180 U/C
		2.0 - 5.1mm			EI 120 U/C
	Ø55mm	2.0 - 3.5mm	Ø57mm	QWR55/CE	EI 180 U/C
		2.0 - 5.1mm			EI 120 U/C
	Ø63mm	2.7mm	Ø65mm	QWR63/CE	EI 180 U/C
		2.7 - 10.0 mm			EI 120 U/C
	Ø75mm	2.7mm	Ø77mm	QWR75/CE	EI 180 U/C
		2.7 - 10.0 mm			EI 120 U/C
	Ø82mm	2.7mm	Ø84mm	QWR82/CE	EI 180 U/C
		2.7 - 10.0 mm			EI 120 U/C
	Ø90mm	2.7mm	Ø92mm	QWR90/CE	EI 180 U/C
		2.7 - 10.0 mm			EI 120 U/C
	Ø110mm	2.7mm	Ø112mm	QWR110/CE	EI 180 U/C
		2.7 - 10.0 mm			EI 120 U/C
	Ø125mm	3.1 - 8.2mm	Ø132mm	QWR125/CE	EI 120 U/C
		3.1 - 9.7mm			EI 60 U/C
	Ø160mm	4.0mm	Ø160mm	QWR160/CE	EI 120 U/C
		4.0 - 9.1mm			EI 60 U/C

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:

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:

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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/m³.

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.

Rigid Floor

Plastic Pipe

Mortar

QWW Intuwrap

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		Ø60mm	QWW50/CE	
	Ø55mm	See Graph on ETA	Ø74mm	QWW55/CE	
	Ø63mm		Ø82mm	QWW63/CE	
	Ø75mm		Ø94mm	QWW75/CE	
	Ø82mm		Ø102mm	QWW82/CE	
	Ø90mm		Ø110mm	QWW90/CE	
	Ø110mm		Ø132mm	QWW110/CE	
	Ø125mm	See Graph on ETA	Ø155mm	QWW125/CE	EI 45 U/C
	Ø160mm	9.1mm	Ø204mm	QWW160/CE	

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:	≤250mm
Drawing Scale:	Not to Scale
Issue Number:	4
Date of Issue:	January 2023
Detail Reference:	QWW-CF150-01

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:

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

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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

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

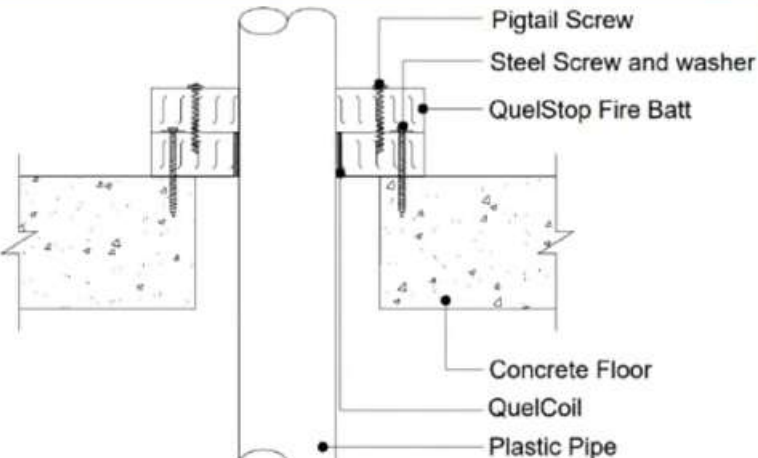


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Additional Instructions

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

Multiple Service Penetrations: The total amount of cross section area of the services (including insulation) should not exceed 60% of the service penetration area.



Quelfire Products Required

Product Code	Description
QB50D	QuelStop Fire Batt
QUELCOIL	QuelCoil Continuous Intuwrap
QSS310	QuelStop Intumescent Acrylic Sealant
QSCSKG	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.

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

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

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:

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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	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: _____