

QF2-CF150-10

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

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, or aerated concrete, with a minimum density of 650kg/m³.

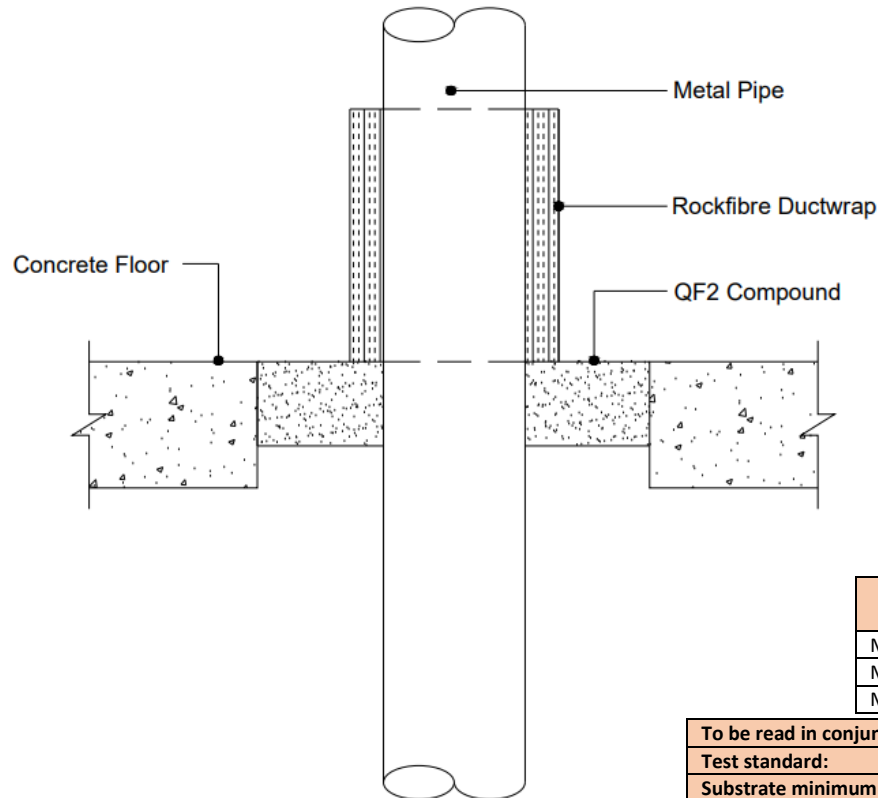
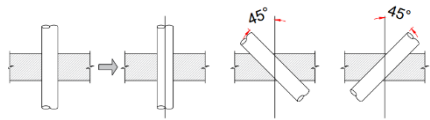
QF2 Fire Protection Compound installed directly up to the penetrating services to ≥100mm thickness.

Mineral Wool Shuttering Slab is temporary and can be removed post compound pour.

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

Additional Instructions

Pipes can be installed at an angle between 45 - 89° as per BS EN 1366-3:2021 section E.4.2.6



Quelfire Products Required

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

Detail Page No.

Detail	Page No.
Temporary shuttering removed	1
Shuttering to remain	2

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 below	0mm
Minimum distance between other Service types	50mm

To be read in conjunction with:	UL Classification Report 4790096347 Issue 4, Page 32
Test standard:	BS EN1366-3 & EN13501-2:2016
Substrate minimum thickness:	150mm
QF2 Fire Protection Compound minimum thickness:	100mm
First service support:	≤150mm
Maximum aperture size:	1600mm x 1100mm**
** Refer to page 14 of the QF2 Classification Report for other aperture sizes	
Drawing Scale:	Not to Scale
Issue Number:	6
Date of Issue:	June 2023
Detail Reference:	QF2-CF150-10

Service Type	Size of Services	Pipe Wall Thickness	Pipe Insulation	Classification
Copper/ Cast Iron & Steel Pipe*	≤Ø15mm	0.7 - 7.5mm	Rock fibre foil faced duct wrap ≥40mm thick (≥45kg/m ³ Density) L/l ≥450mm long on the upper side of the fire seal only, butted up to the QF2 Fire Protection Compound seal and fixed with Ø1.6mm malleable steel wire fitted at 150mm and 300mm distance from the QF2 Fire Protection Compound seal.	E 240 C/U EI 120 C/U
	Ø16 - 40mm	1.0 - 14.2mm		E 240 C/U EI 90 C/U
Cast Iron & Steel Pipe*	≤Ø168.5mm	5.0 - 14.2mm		

* All metal pipe materials are covered which have a thermal conductivity equal or lower than the metal pipe tested and provided the melting point is at least equal or greater.

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:

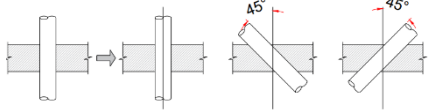
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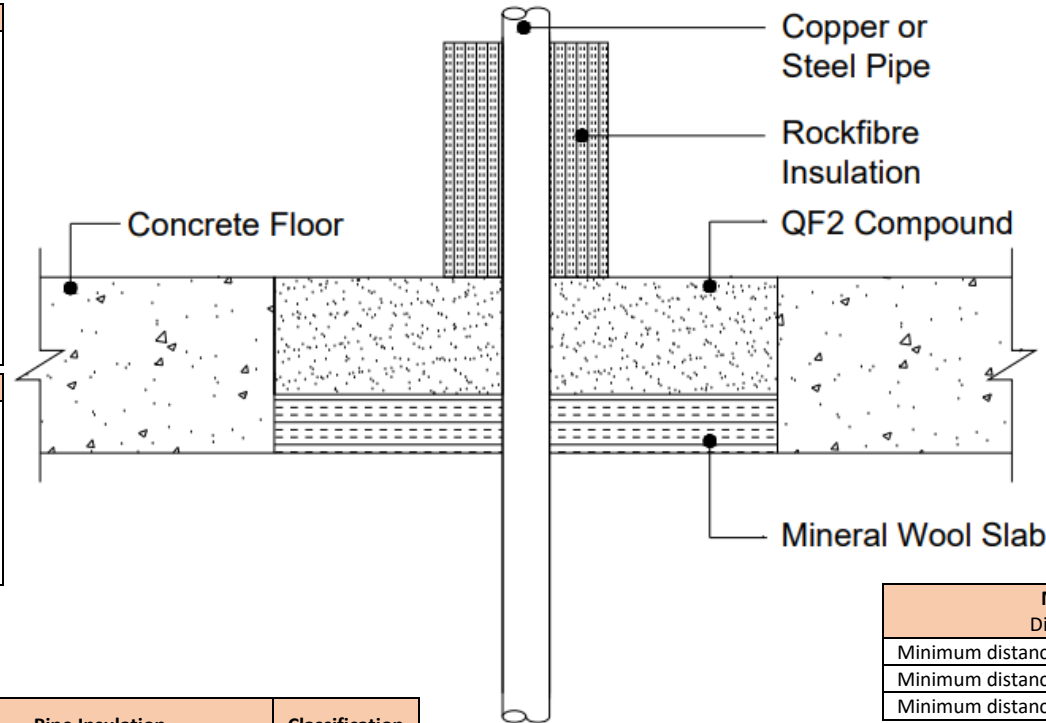
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Additional Instructions
The floor must have a minimum thickness of 150mm and comprise of concrete, or aerated concrete, with a minimum density of 650kg/m ³ .
QF2 Fire Protection Compound installed directly up to the penetrating services to ≥100mm thickness.
Quelfire MW Shuttering Slab fitted to the underside of the QF2 Fire Protection Compound and left in place.
Multiple Service Penetrations: The total amount of cross section area of the services (including insulation) should not exceed 60% of the service penetration area.

Additional Instructions
Pipes can be installed at an angle between 45 - 89° as per BS EN 1366-3:2021 section E.4.2.6




Quelfire Products Required	
Product Code	Description
QF2	QF2 Fire Protection Compound
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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 below	0mm
Minimum distance between other Service types	50mm

Service Type	Size of Services	Pipe Wall Thickness	Pipe Insulation	Classification
Copper/ Cast Iron & Steel Pipe*	≤Ø15mm	0.8 - 7.5mm	Rock fibre foil faced duct wrap ≥25mm thick (≥45kg/m ³ Density) L/I ≥450mm long on the upper side of the fire seal only, butted up to the QF2 Fire Protection Compound seal and fixed with Ø1.6mm malleable steel wire fitted at 150mm and 300mm distance from the QF2 Fire Protection Compound seal.	E 240 C/U EI 180 C/U
	Ø16 - 40mm	1.2 - 14.2mm		E 240 C/U EI 180 C/U
	Ø41 - 107mm	1.5 - 14.2mm		E 240 C/U EI 30 C/U
Cast Iron & Steel Pipe*	≤Ø40mm	3.0 - 14.2mm		EI 240 C/U
	Ø41 - 110mm	3.5 - 14.2mm		E 240 C/U
	Ø111 - 165mm	5.0 - 14.2mm		EI 120 C/U

* All metal pipe materials are covered which have a thermal conductivity equal or lower than the metal pipe tested and provided the melting point is at least equal or greater.

To be read in conjunction with:	UL Classification Report 4790096347 Issue 4, Page 33
Test standard:	BS EN1366-3 & EN13501-2:2016
Substrate minimum thickness:	150mm
QF2 Fire Protection Compound minimum thickness:	100mm
First service support:	≤150mm
Maximum aperture size:	1600mm x 1100mm**
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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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