

QF2-CF150-P-08

Plastic 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.

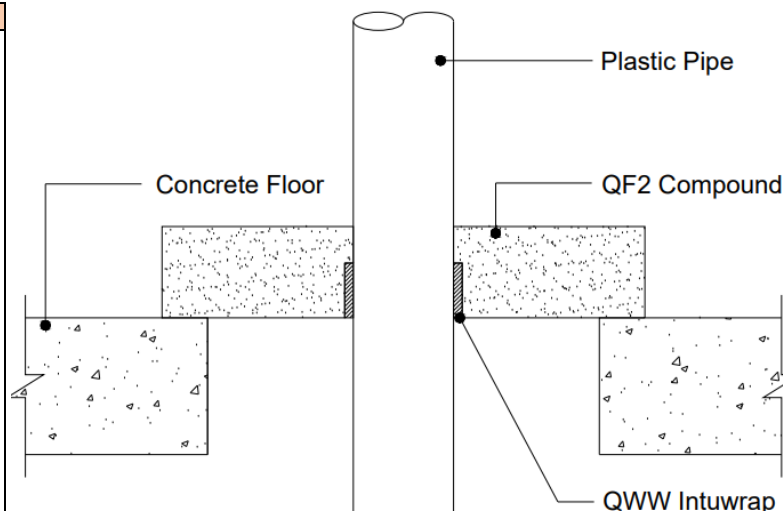
Install the correct size QWW Intuwrap around the plastic pipe to the lower side of the seal.

The QF2 Fire Protection Compound is poured to a minimum depth of 100mm above the floor aperture with a minimum 50mm overlap on all sides.

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

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

Multiple Service Penetrations: the total number of services (pipes, cables, conduits, trunking etc.) may be increased without restriction, so long as the distances between the services and the aperture edge are not smaller than the minimum distances stated on the service penetration detail and the aperture does not exceed the maximum allowance permitted.



Quelfire Products Required	
Product Code	Description
QF2	QF2 Fire Protection Compound
QWW??/CE	QWW Fire wrap for plastic pipes. refer to table below
MW/SLAB	Quelfire MW Shuttering Slab

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

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 ≤Ø110mm	30mm
Minimum distance between services within the table below >Ø110mm	50mm
Minimum distance between other service types	50mm

Service Type	Size of Services	Pipe Wall Thickness	QWW wrap required	Classification
U-PVC Pipe	Ø32mm	2.4 - 3.7mm	QWW32/CE	E 120 U/C EI 60 U/C
	Ø40mm		QWW40/CE	
	Ø50mm	3.2 – 4.2mm	QWW50/CE	
	Ø55mm		QWW55/CE	
	Ø63mm		QWW63/CE	
	Ø75mm		QWW75/CE	
	Ø82mm	4.2 – 6.6mm	QWW82/CE	
	Ø90mm		QWW90/CE	
	Ø110mm		QWW110/CE	
	Ø125mm	6.2mm	QWW125/CE	
	Ø160mm		QWW160/CE	

To be read in conjunction with:	UL Classification Report 4790096347 Issue 5 Pages 17, 59 & 60
Test standard:	BS EN1366-3 & EN13501-2
Substrate minimum thickness:	150mm
QF2 Fire Protection Compound minimum thickness:	100mm
First service support:	≤400mm
Maximum aperture size:	2500mm x 1250mm**
** Refer to page 17 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-P-08

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/>

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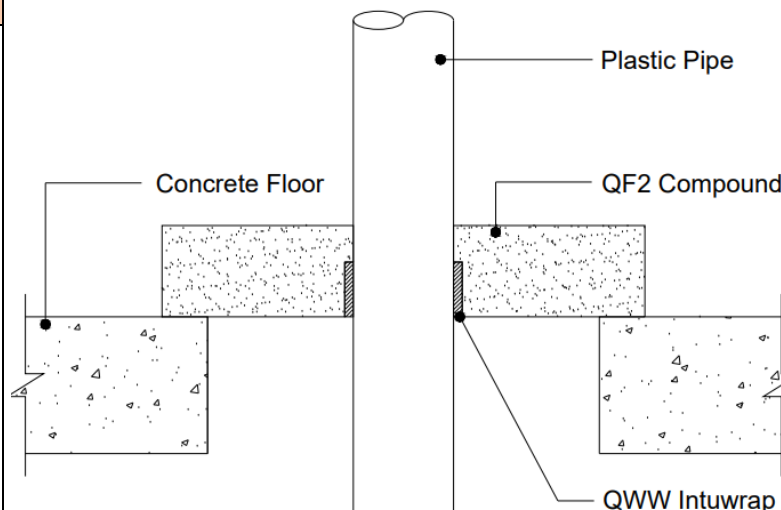
Install the correct size QWW Intuwrap around the plastic pipe to the lower side of the seal.

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Service Type	Size of Services	Pipe Wall Thickness	QWW wrap required	Classification
PE, PE-X, ABS, SAN-PVC* Pipe	Ø32mm	3.0 – 4.6mm	QWW32/CE	E 120 U/C EI 60 U/C
	Ø40mm		QWW40/CE	
	Ø50mm	3.4 – 6.6mm	QWW50/CE	
	Ø55mm		QWW55/CE	
	Ø63mm		QWW63/CE	
	Ø75mm		QWW75/CE	
	Ø82mm	3.4 – 6.6mm	QWW82/CE	E 90 U/C EI 60 U/C
	Ø90mm		QWW90/CE	
	Ø110mm		QWW110/CE	
	Ø125mm	9.5mm	QWW125/CE	
	Ø160mm		QWW160/CE	

* 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

Multiple Service Penetration Spacing

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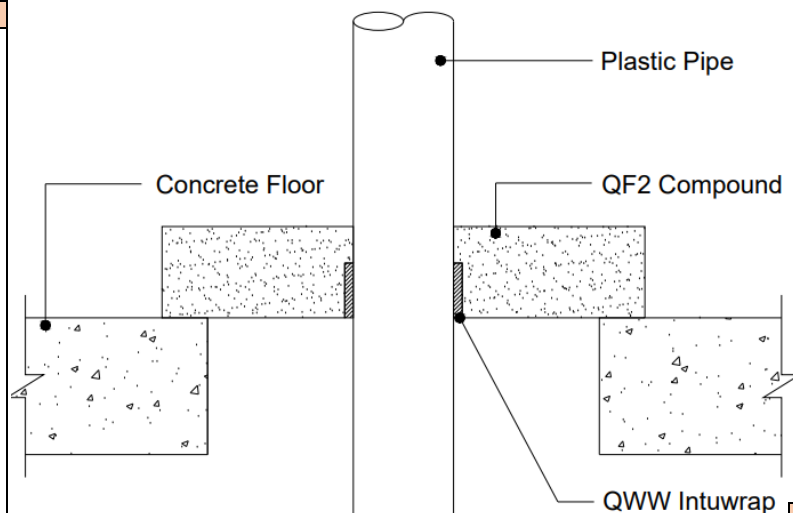
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