

QF2-HC150-27

Large Plastic Pipe penetrating a hollow core 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 with a minimum density of 2450kg/m³.

Minimum 25mm thick cut of mineral wool insulation is installed at a 25mm depth within the hollows as shown:

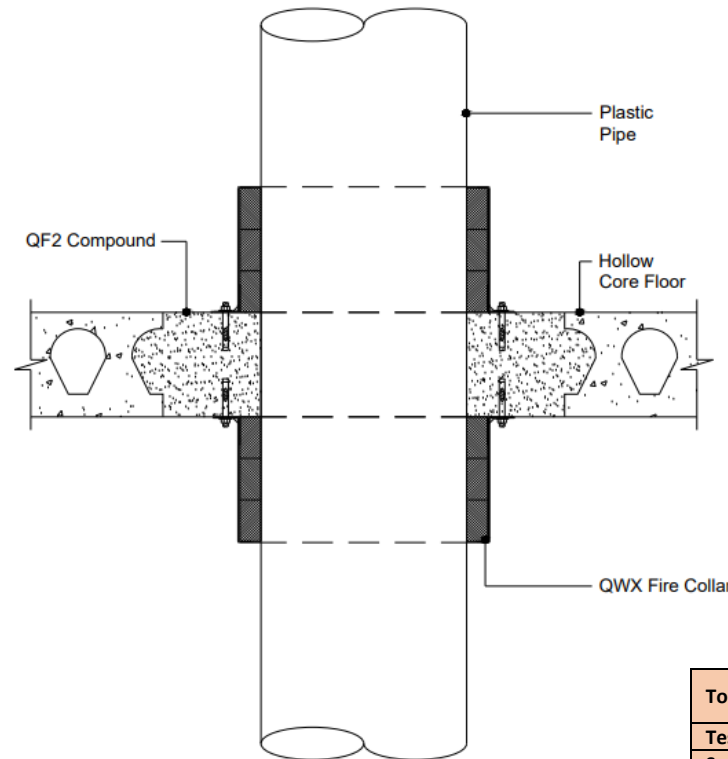


The void is then filled with QF2 Fire Protection Compound to the full depth of the floor flush with both faces of the hollow core slab.

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

Once cured, install the correct size QWX Fire Collar on both the top and bottom of the QF2 Fire Protection Compound seal with M8 X 65mm steel sleeve anchors through all fixing lugs. The QWX Collar should be positioned and rotated so that the fixings do not clash. The fixings from the collar on the top of the slab should not come into contact with the fixings from the collar on the underside of the slab.

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
QWX??	QWX Fire Collar for large dia. pipes
MW/SLAB	Quelfire MW Shuttering Slab

Detail	Page No.
Ø250 & Ø315mm Pipes	1
Ø200mm Pipes	2

Multiple Service Penetration Spacing Distances are from edge of fire stop seal	
Minimum distance from edge of opening	50mm
Minimum distance between Services within the table shown	100mm
Minimum distance between other Service types	100mm

To be read in conjunction with:	UL Classification Report 4790096347 Issue 5 Pages 78, 79 & 102
Test standard:	BS EN1366-3 & EN13501-2
Substrate minimum thickness:	150mm
QF2 Fire Protection Compound minimum thickness:	Full depth
First service support:	≤400mm
Maximum aperture size:	1600mm x 750mm **
** Refer to page 78 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:	2
Date of Issue:	April 2024
Detail Reference:	QF2-HC150-27

Service Type	Size of Services	Pipe Wall Thickness	2no. QWX Required	Classification
HDPE Pipe	Ø250mm	7.8mm	QWX250	EI 240 C/C
	Ø315mm	9.8mm	QWX315	

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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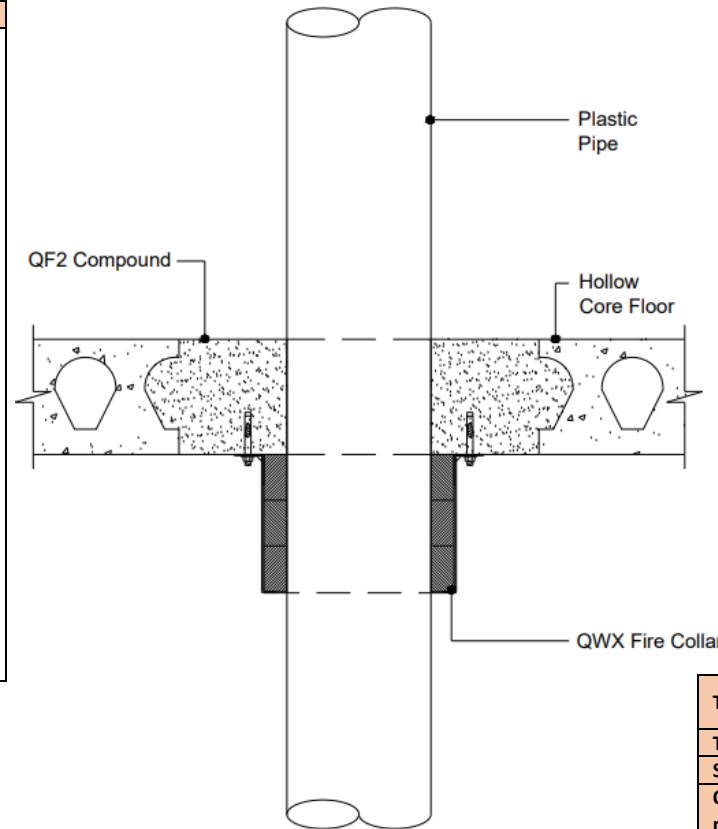


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For further information on the installation of QF2 Fire Protection use the [QF2 installation guidance document](#).

Once cured, install the correct size QWX Fire Collar on the underside of the QF2 Fire Protection Compound seal with M8 X 65mm steel sleeve anchors through all fixing lugs.

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.



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Service Type	Size of Services	Pipe Wall Thickness	QWX Required	Classification
HDPE Pipe	Ø200mm	6.2mm	QWX200	EI 180 C/C

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