

QF2-PD45-27

Large Plastic Pipe penetrating a Profile Deck floor system

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

Trapezoidal Steel Profile Deck Floor, minimum 45mm thickness at the thinnest part of the slab and a minimum of 120mm depth at the thickest part of the slab. Minimum concrete density 2400kg/m³.

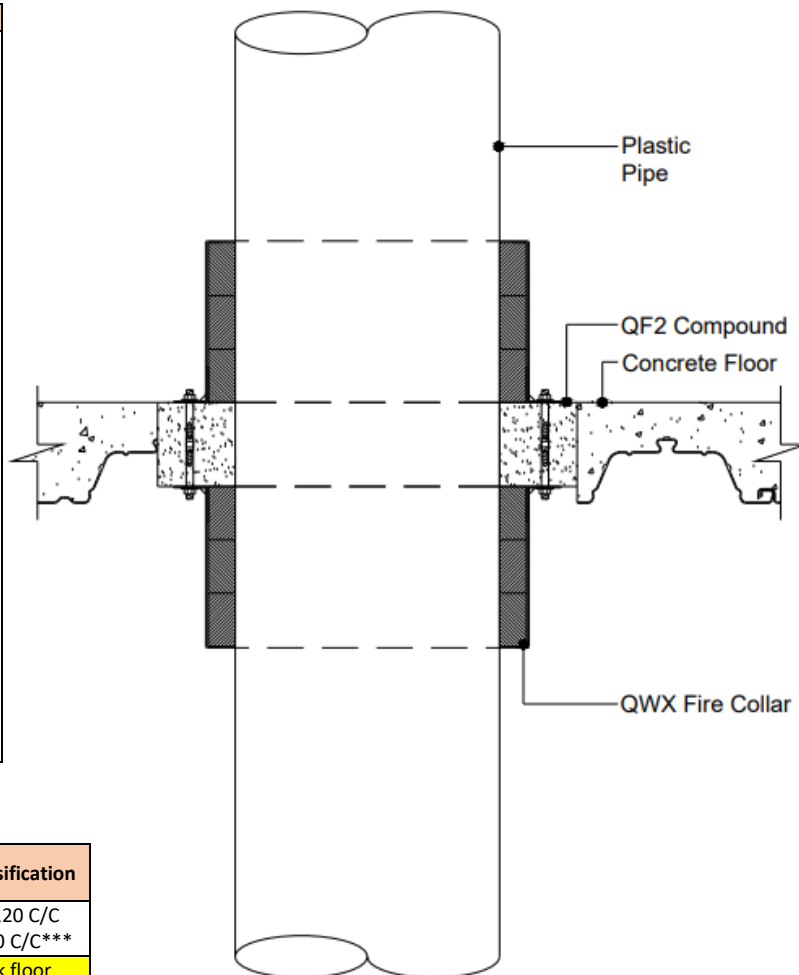
The QF2 Fire Protection Compound is poured to a minimum depth of 100mm into the floor aperture. Temporary shuttering is used and removed once the QF2 has cured.

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.

Service Type	Size of Services	Pipe Wall Thickness	2no. QWX Required	Classification
HDPE Pipe	Ø250mm	7.8mm	QWX250	E 120 C/C
	Ø315mm	9.8mm	QWX315	EI 90 C/C***
*** Although EI 90 is shown this is due to the profile deck floor not the QF2 compound seal, a higher EI rating may be approved by a project's fire consultant, and they should contact Quelfire's technical team directly for access to WF Test Report 525298.				



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 106, 107 & 130
Test standard:	BS EN1366-3 & EN13501-2
Substrate minimum thickness:	45mm (thinnest part of the structure)
QF2 Fire Protection Compound minimum thickness:	100mm
First service support:	≤400mm
Maximum aperture size:	500mm x 400mm **
** Refer to page 106 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-PD45-27

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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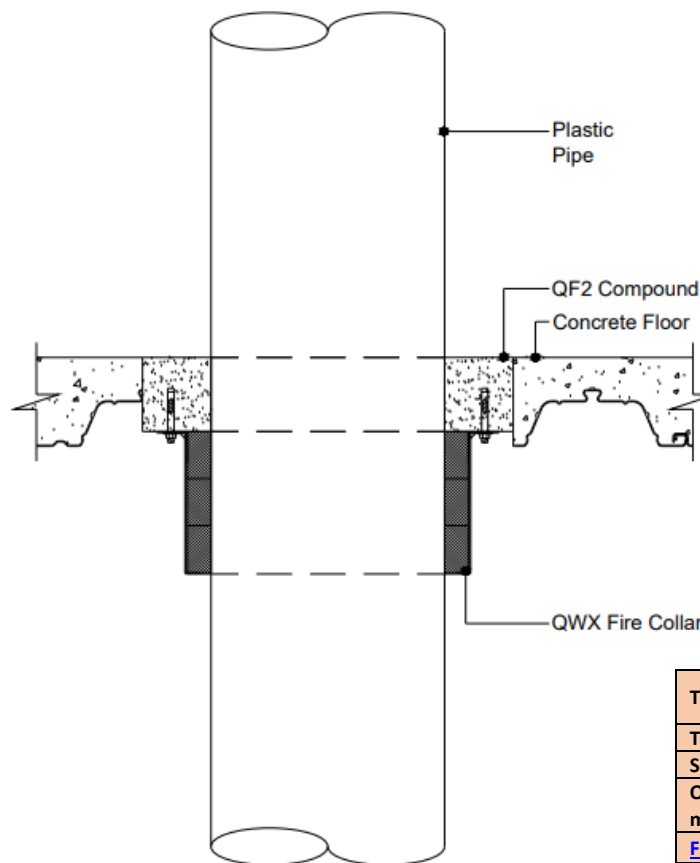
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Service Type	Size of Services	Pipe Wall Thickness	QWX Required	Classification
HDPE Pipe	Ø200mm	6.2mm	QWX200	EI 120 C/C EI 90 C/C***
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