

QF2-PD45-08

Plastic Pipe penetrating a Profile Deck floor system

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Additional Instructions

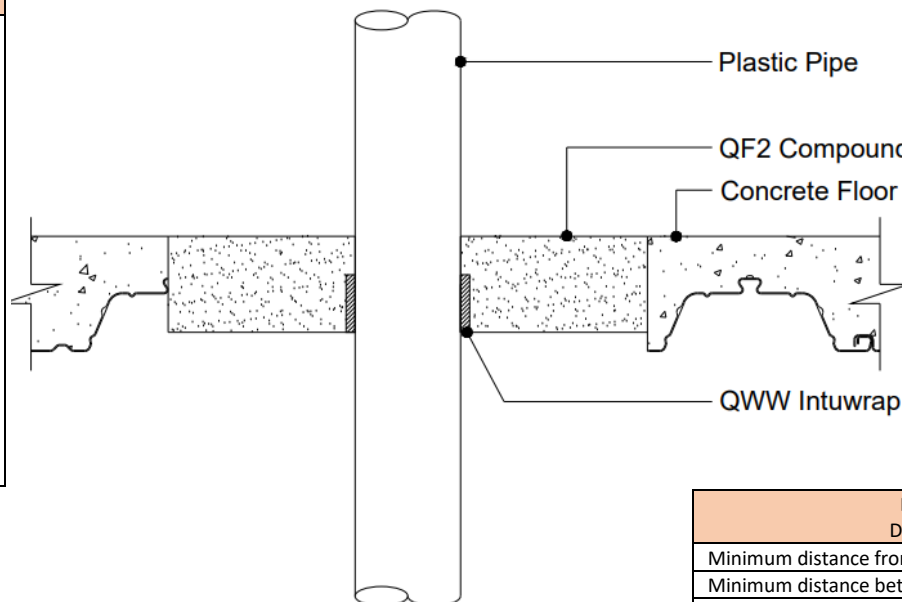
Trapezoidal Steel Profile Deck Floor, minimum 45mm thickness at the thinnest part of the slab and a minimum of 120mm depth at the thickest part of the slab. Minimum concrete density 2400kg/m³.

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 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](#).

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

To be read in conjunction with:	UL Classification Report 4790096347 Issue 5 Pages 106, 107, 117 & 118
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-PD45-08

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 90 U/C***
	Ø40mm		QWW40/CE	
	Ø50mm		QWW50/CE	
	Ø55mm	3.2 – 4.2mm	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	

*** 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.

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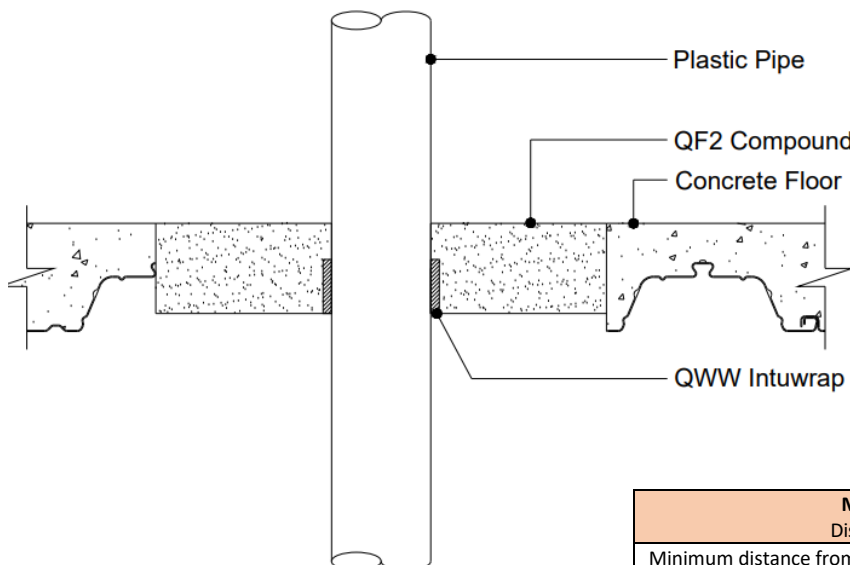
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Service Type	Size of Services	Pipe Wall Thickness	QWW wrap required	Classification
PE, PE-X, ABS, SAN-PVC* Pipe	Ø32mm	3.0 – 4.6mm	QWW32/CE	E 120 U/C EI 90 U/C***
	Ø40mm		QWW40/CE	
	Ø50mm		QWW50/CE	
	Ø55mm	3.4 – 6.6mm	QWW55/CE	
	Ø63mm		QWW63/CE	
	Ø75mm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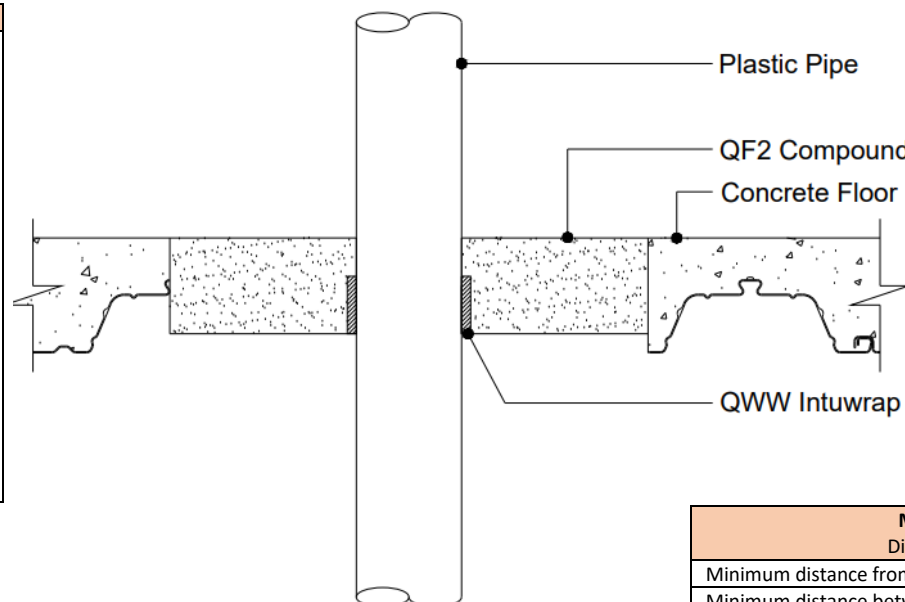
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