

QF2-HC150-06

Plastic Pipe penetrating a hollow core slab (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.

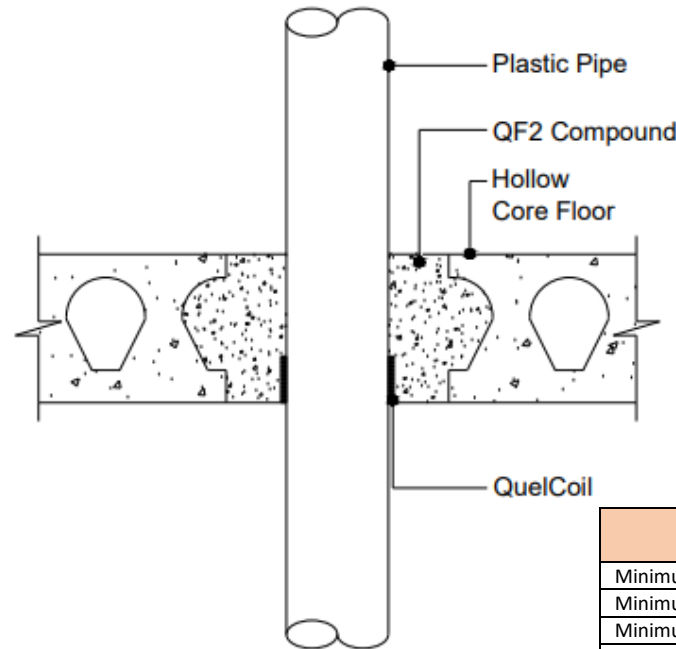
Minimum 25mm thick cut of mineral wool insulation is installed at a 25mm depth within the hollows as shown:



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](#).

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
QUELCOIL	QuelCoil Continuous Intuwrap
MW/SLAB	Quelfire MW Shuttering Slab

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	0mm
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 78, 79 & 85
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:	5
Date of Issue:	April 2024
Detail Reference:	QF2-HC150-06

Service Type	Size of Services	Pipe Wall Thickness	QuelCoil Layers Required	Classification
U-PVC Pipe	≤Ø50mm	2.4mm	1 x 2mm Layer	EI 120 U/C
	Ø51- 75mm	3.2 - 4.2mm	2 x 2mm Layers	
	Ø76 - 110mm	4.2 - 6.6mm	3 x 2mm Layers	
	Ø111 - 160mm	6.2mm	6 x 2mm Layers	
PE, PE-X, ABS, SAN-PVC* Pipe	≤Ø50mm	3.0mm	1 x 2mm Layer	
	Ø51- 75mm	3.2 - 5.9mm	2 x 2mm Layers	
	Ø76 - 110mm	3.4 - 10.0mm	3 x 2mm Layers	
	Ø111 - 160mm	9.5mm	6 x 2mm Layers	
PP Pipe	≤Ø50mm	2.0mm	1 x 2mm Layer	
	Ø51- 75mm	2.3 - 5.3mm	2 x 2mm Layers	
	Ø76 - 110mm	2.7 - 10.0mm	3 x 2mm Layers	

*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

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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