

## QF2-HC150-08

## 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/m<sup>3</sup>.

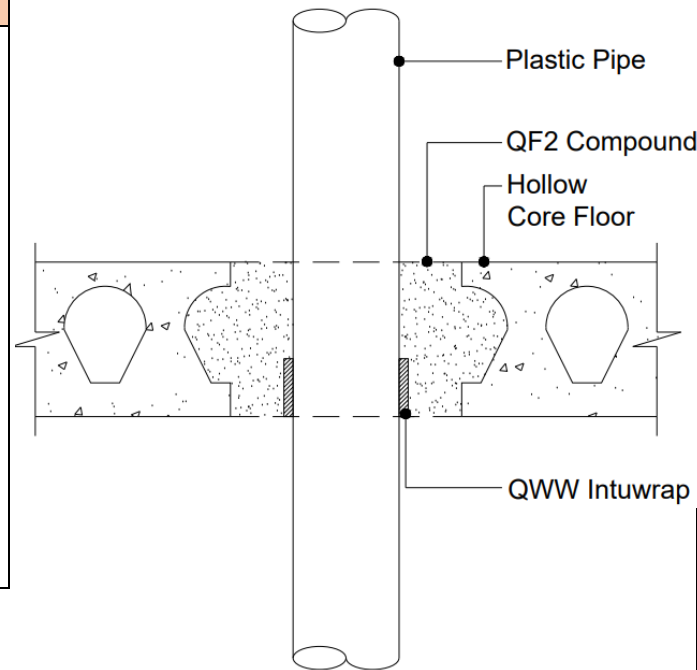
Minimum 25mm thick cut of mineral wool insulation is installed at a 25mm depth within the hollows as shown:



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	<a href="#">QF2 Fire Protection Compound</a>
QWW??/CE	<a href="#">QWW Fire wrap</a> for plastic pipes. refer to table below
MW/SLAB	<a href="#">Quelfire MW Shuttering Slab</a>

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 $\leq \varnothing 110\text{mm}$	30mm
Minimum distance between services within the table below $> \varnothing 110\text{mm}$	50mm
Minimum distance between other service types	50mm

To be read in conjunction with:	<a href="#">UL Classification Report 4790096347 Issue 5</a> Pages 78, 79, 88 & 89
Test standard:	BS EN1366-3 & EN13501-2
Substrate minimum thickness:	150mm
QF2 Fire Protection Compound minimum thickness:	Full depth
First service support:	$\leq 400\text{mm}$
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-HC150-08

Service Type	Size of Services	Pipe Wall Thickness	QWW wrap required	Classification
U-PVC Pipe	$\varnothing 32\text{mm}$	2.4 - 3.7mm	QWW32/CE	EI 120 U/C
	$\varnothing 40\text{mm}$		QWW40/CE	
	$\varnothing 50\text{mm}$	3.2 - 4.2mm	QWW50/CE	
	$\varnothing 55\text{mm}$		QWW55/CE	
	$\varnothing 63\text{mm}$		QWW63/CE	
	$\varnothing 75\text{mm}$		QWW75/CE	
	$\varnothing 82\text{mm}$	4.2 - 6.6mm	QWW82/CE	
	$\varnothing 90\text{mm}$		QWW90/CE	
	$\varnothing 110\text{mm}$		QWW110/CE	
	$\varnothing 125\text{mm}$	6.2mm	QWW125/CE	
$\varnothing 160\text{mm}$	QWW160/CE			

### 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.
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## QF2-HC150-08

## Plastic Pipe penetrating a hollow core floor (150mm or thicker)

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### Additional Instructions

The floor must have a minimum thickness of 150mm with a minimum density of 2450kg/m<sup>3</sup>.

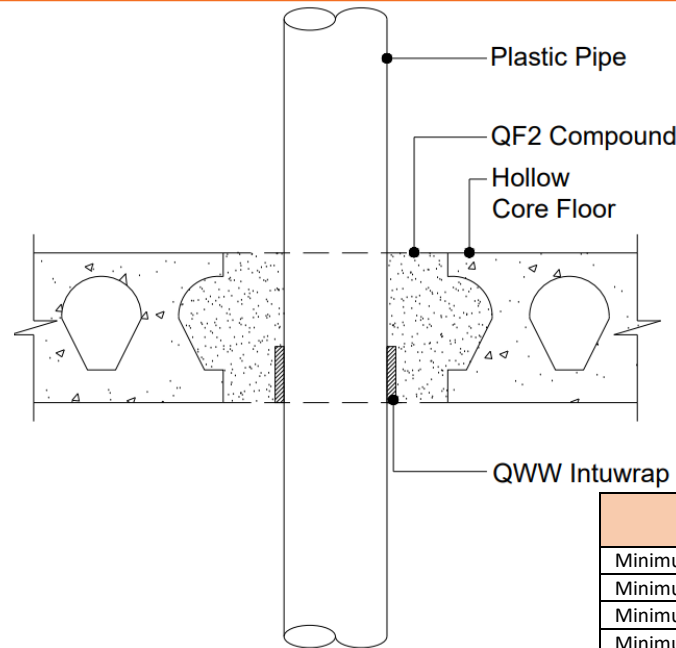
Minimum 25mm thick cut of mineral wool insulation is installed at a 25mm depth within the hollows as shown:



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.



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QWW??/CE	<a href="#">QWW Fire wrap</a> for plastic pipes. refer to table below
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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
PE, PE-X, ABS, SAN-PVC* Pipe	Ø32mm	3.0 – 4.6mm	QWW32/CE	EI 120 U/C
	Ø40mm		QWW40/CE	
	Ø50mm		QWW50/CE	
	Ø55mm	3.4 – 6.6mm	QWW55/CE	
	Ø63mm		QWW63/CE	
	Ø75mm		QWW75/CE	
	Ø82mm	3.4 – 6.6mm	QWW82/CE	
	Ø90mm		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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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 **
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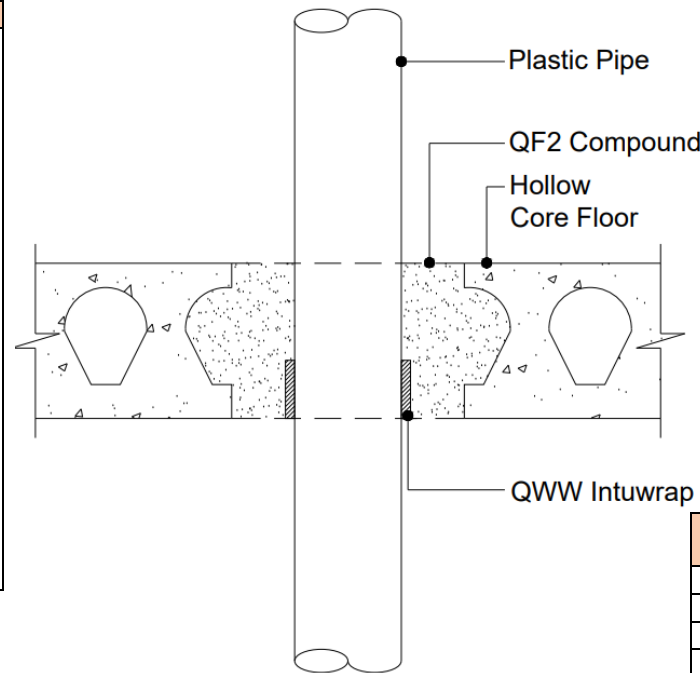
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	Ø55mm		QWW55/CE	
	Ø63mm	5.3 – 10.0mm	QWW63/CE	
	Ø75mm		QWW75/CE	
	Ø82mm		QWW82/CE	
	Ø90mm		QWW90/CE	
Ø110mm	10.0mm	QWW110/CE		

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