

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

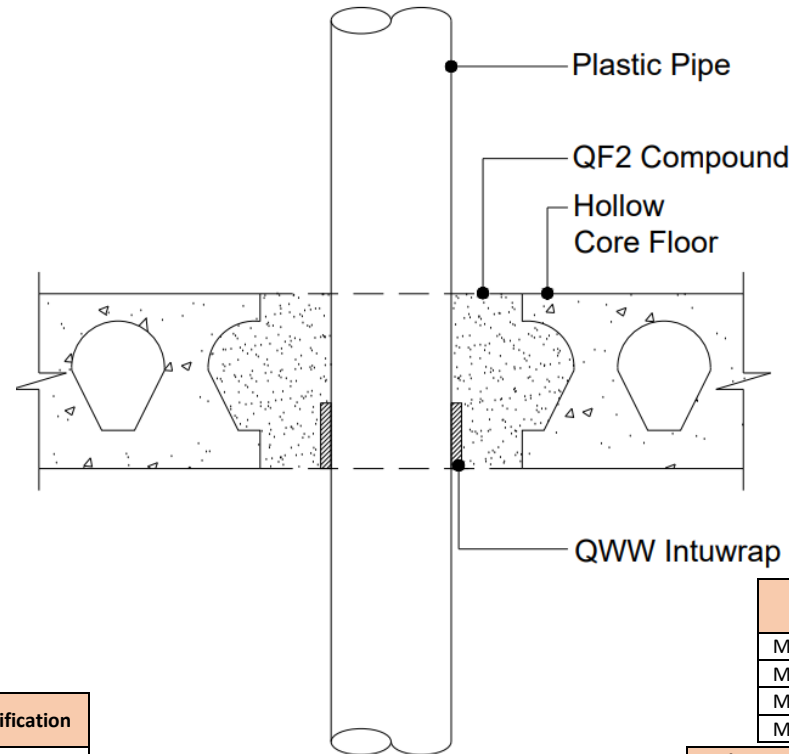
The floor must have a minimum thickness of 150mm with a minimum density of 2450kg/m³.

Minimum 25mm thick cut of mineral wool insulation should be used to seal off the ends of the hollows within the aperture.

Install the correct size QWW Intuwrap around the plastic pipe to the lower side of the seal.

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.

Multiple Service Penetrations: The total amount of cross section area of the services (including insulation) should not exceed 60% of the service penetration area.



Quelfire Products Required	
Product Code	Description
QF2	QF2 Fire Protection Compound
QWW**/CE	Fire wrap for plastic pipes. refer to table below
MW/SLAB	Mineral Wool (MW) Shuttering Slab

Plastic Pipe Type	Page No.
U-PVC	1
HDPE	2
PP	3

Service Type	Size of Services	Pipe Wall Thickness	QWW wrap required	Classification
U-PVC Pipe	Ø32mm	2.4 - 3.7mm	QWW32/CE	EI 120 U/C
	Ø40mm		QWW40/CE	
	Ø50mm		QWW50/CE	
	Ø55mm	3.2 – 4.2mm	QWW55/CE	
	Ø63mm		QWW63/CE	
	Ø75mm		QWW75/CE	
	Ø82mm		QWW82/CE	
	Ø90mm	4.2 – 6.6mm	QWW90/CE	
	Ø110mm		QWW110/CE	
	Ø125mm	6.2mm	QWW125/CE	
Ø160mm	QWW160/CE			

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 4, Page 59
Test standard:	BS EN1366-3 & EN13501-2:2016
Substrate minimum thickness:	150mm
QF2 Fire Protection Compound minimum thickness:	Full depth
First service support:	≤400mm
Maximum aperture size:	Ø240mm
Drawing Scale:	Not to Scale
Issue Number:	1
Date of Issue:	June 2023
Detail Reference:	QF2-HC150-08

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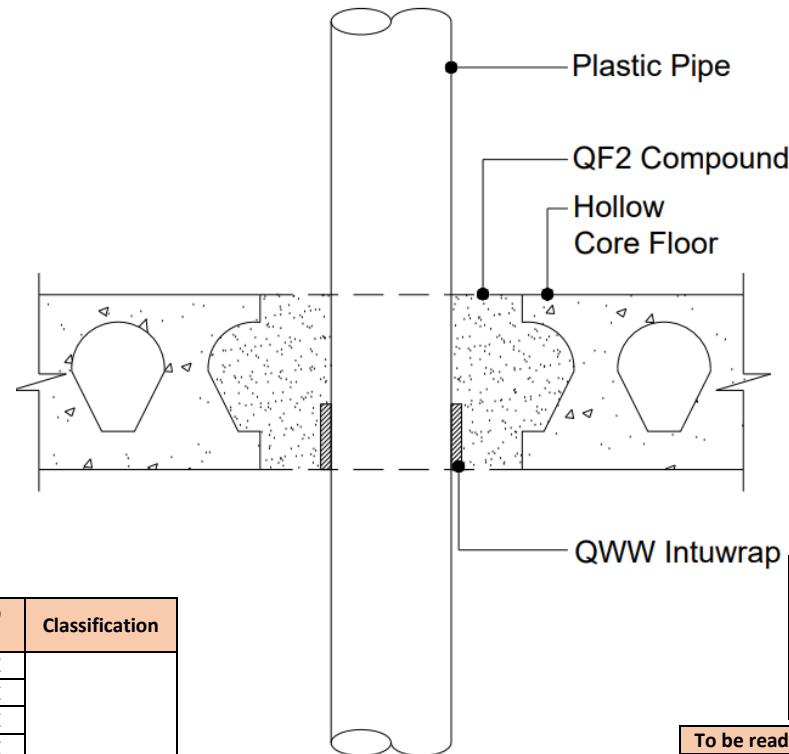
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Minimum distance between services within the table below $\leq \varnothing 110\text{mm}$	30mm
Minimum distance between services within the table below $> \varnothing 110\text{mm}$	50mm
Minimum distance between other service types	50mm

Service Type	Size of Services	Pipe Wall Thickness	QWW wrap required	Classification
PE, PE-X, ABS, SAN-PVC* Pipe	$\varnothing 32\text{mm}$	3.0 – 4.6mm	QWW32/CE	EI 120 U/C
	$\varnothing 40\text{mm}$		QWW40/CE	
	$\varnothing 50\text{mm}$	3.4 – 6.6mm	QWW50/CE	
	$\varnothing 55\text{mm}$		QWW55/CE	
	$\varnothing 63\text{mm}$		QWW63/CE	
	$\varnothing 75\text{mm}$		QWW75/CE	
	$\varnothing 82\text{mm}$	3.4 – 6.6mm	QWW82/CE	
	$\varnothing 90\text{mm}$		QWW90/CE	
	$\varnothing 110\text{mm}$		QWW110/CE	
	$\varnothing 125\text{mm}$	9.5mm	QWW125/CE	
$\varnothing 160\text{mm}$	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

To be read in conjunction with:	UL Classification Report 4790096347 issue 4, Page 59 & 60
Test standard:	BS EN1366-3 & EN13501-2:2016
Substrate minimum thickness:	150mm
QF2 fire Protection Compound minimum thickness:	Full depth
First service support:	$\leq 400\text{mm}$
Maximum aperture size:	$\varnothing 240\text{mm}$
Drawing Scale:	Not to Scale
Issue Number:	1
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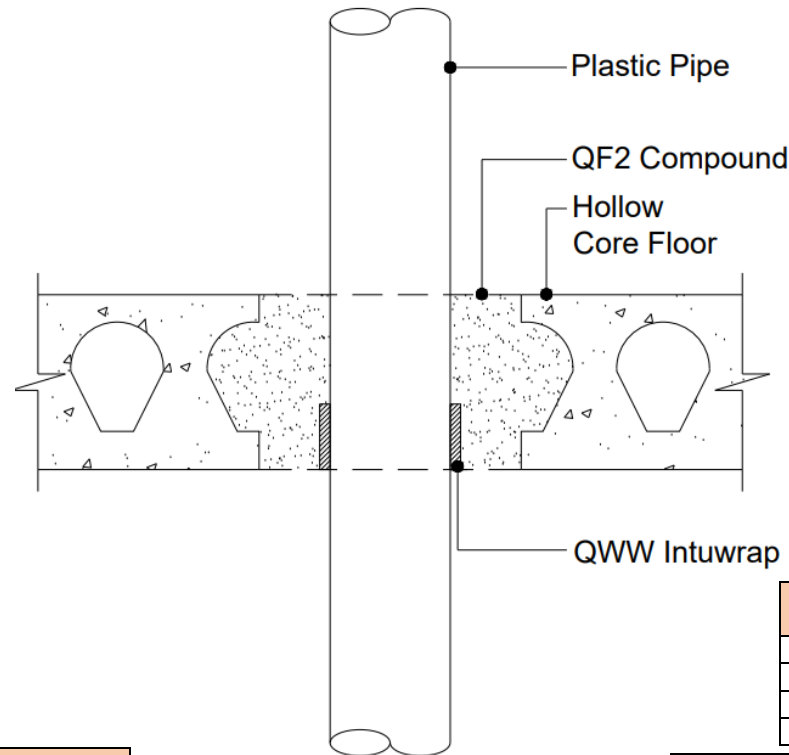
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