

QF2-HC150-07

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 is installed at a 25mm depth within the hollows as shown:

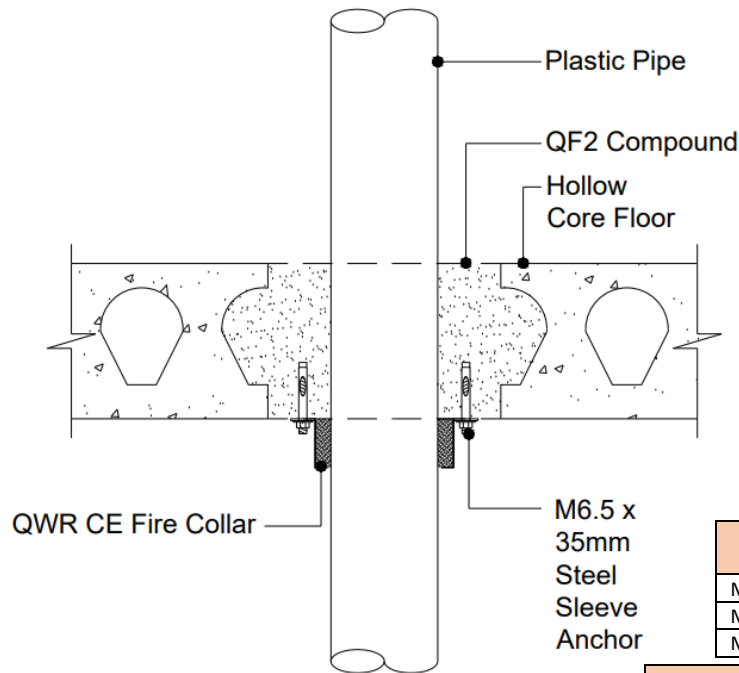


The void is then filled with QF2 Fire Protection Compound to the full depth of the floor flush with both faces of the hollow core slab.

For further information on the installation of QF2 Fire Protection use the [QF2 installation guidance document](#).

Once cured install the correct size QWR Fire Collar for the pipe size to the underside of the QF2 Fire Protection Compound with M6 X 36mm steel sleeve anchors through all fixing lugs.

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
QWR??/CE	QWR Fire Collar 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	50mm
Minimum distance between Services within the table below	100mm
Minimum distance between other Service types	100mm

Service type	Size of Service	Pipe Wall Thickness	QWR Collar	Classification
U-PVC Pipe	Ø25mm	1.9 – 3.0mm	QWR25/CE	E 120 U/C EI 90 U/C
	Ø32mm		QWR32/CE	
	Ø40mm		QWR40/CE	
	Ø50mm	2.9 - 3.8mm	QWR50/CE	
	Ø55mm		QWR55/CE	
	Ø63mm		QWR63/CE	
	Ø75mm	6.6mm	QWR75/CE	
	Ø82mm		QWR82/CE	
	Ø90mm		QWR90/CE	
	Ø110mm		QWR110/CE	
	Ø125mm		6.5mm	
	Ø160mm	6.2mm	QWR160/CE	

To be read in conjunction with:	UL Classification Report 4790096347 Issue 5 Pages 78, 79, 86 & 87
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:	2
Date of Issue:	April 2024
Detail Reference:	QF2-HC150-07

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.
- Full terms and conditions of sale are available at <https://www.quelfire.co.uk/terms-conditions-of-sale/>

QF2-HC150-07

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/m³.

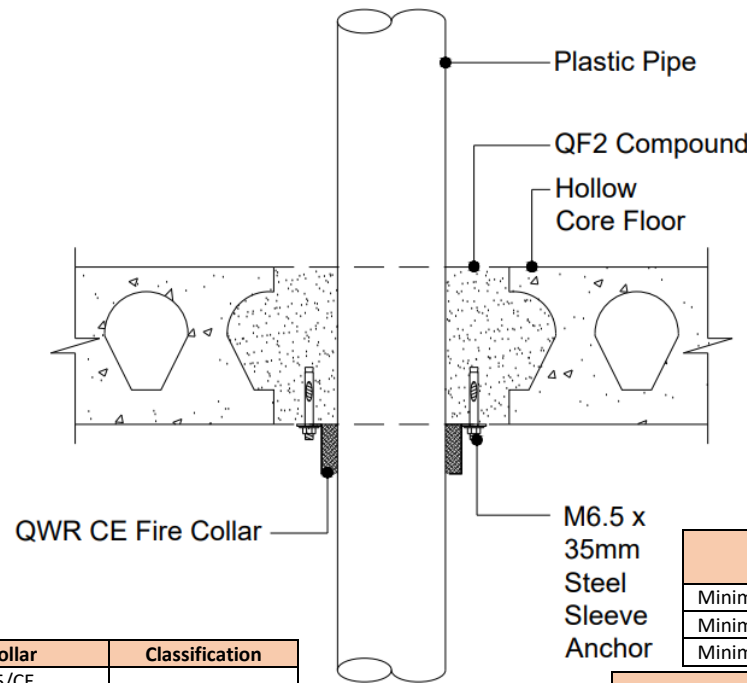
Minimum 25mm thick cut of mineral wool insulation is installed at a 25mm depth within the hollows as shown:



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](#).

Once cured install the correct size QWR Fire Collar for the pipe size to the underside of the QF2 Fire Protection Compound with M6 X 36mm steel sleeve anchors through all fixing lugs.

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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Service Type	Size of Service	Pipe Wall Thickness	QWR Collar	Classification
PE, PE-X, ABS, SAN-PVC* Pipe	Ø25mm	2.4 - 3.7mm	QWR25/CE	E 120 U/C EI 90 U/C
	Ø32mm		QWR32/CE	
	Ø40mm		QWR40/CE	
	Ø50mm	2.6 - 4.3mm	QWR50/CE	
	Ø55mm		QWR55/CE	
	Ø63mm		QWR63/CE	
	Ø75mm	6.6mm	QWR75/CE	
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	Ø110mm		QWR110/CE	
	Ø125mm		QWR125/CE	
	Ø160mm	3.6 - 7.5mm	QWR160/CE	
		4.0 - 9.5mm	QWR160/CE	

*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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Substrate minimum thickness:	150mm
QF2 Fire Protection Compound minimum thickness:	Full depth
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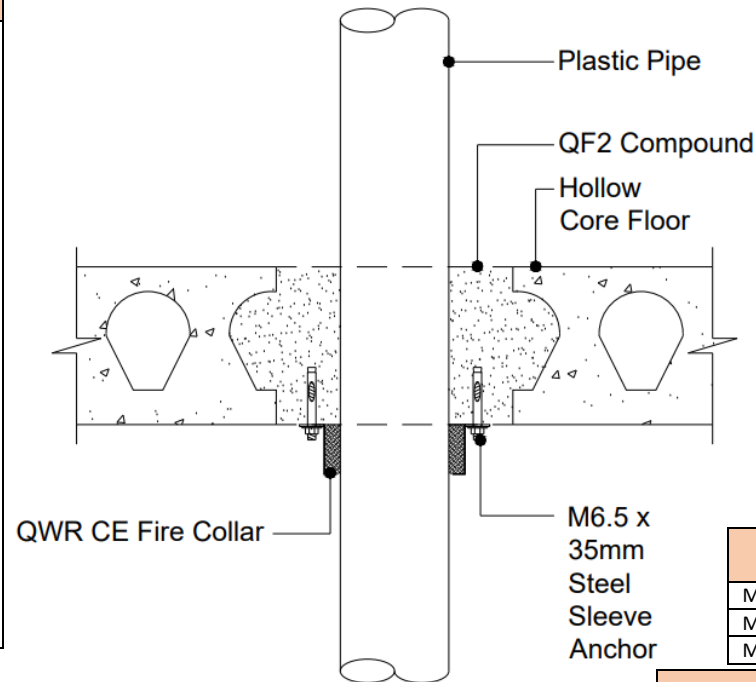


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