

QF2-CF150-04

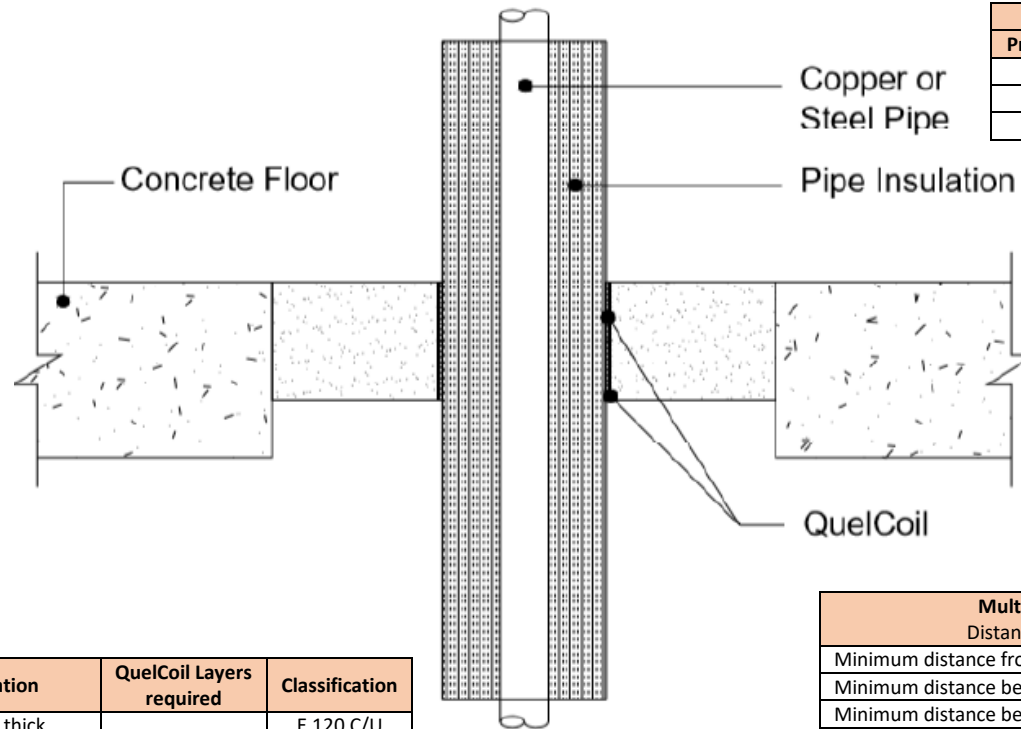
Insulated Metal Pipe penetrating a rigid floor (150mm or thicker)

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 and comprise of concrete, or aerated concrete, with a minimum density of 650kg/m³.

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
QUELCOIL	QuelCoil Continuous Intuwrap
MW/SLAB	Quelfire MW Shuttering Slab

Service Type	Size of Services	Pipe Wall Thickness	Pipe Insulation	QuelCoil Layers required	Classification
Copper/ Cast Iron & Steel Pipe*	≤Ø42mm	1.2 - 14.2mm	13 - 25mm thick Armaflex** (C/S)	2x 2mm thick layers in both the top and bottom of the compound seal.	E 120 C/U
		1.3 - 14.2mm	25mm thick Armaflex** (C/S)		EI 60 C/U
	Ø43 - 159mm	1.6 - 14.2mm			E 180 C/U
	≤Ø42mm	1.2 - 14.2mm	25 - 40mm thick Kingspan Kooltherm*** (C/S)		EI 60 C/U
			40mm thick Kingspan Kooltherm*** (C/S)		E 120 C/U
		Ø43 - 108mm	1.5 - 14.2mm		Kooltherm*** (C/S)
1.7 - 14.2mm			EI 120 C/U		
				EI 45 C/U	

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	50mm
Minimum distance between other Service types	50mm

To be read in conjunction with:	UL Classification Report 4790096347 Issue 4, Page 23
Test standard:	BS EN1366-3 & EN13501-2:2016
Substrate minimum thickness:	150mm
QF2 Fire Protection Compound minimum thickness:	100mm
First service support:	≤400mm
Maximum aperture size:	1600mm x 1100mm**
** Refer to page 14 of the QF2 classification report for other aperture sizes	
Drawing Scale:	Not to Scale
Issue Number:	6
Date of Issue:	June 2023
Detail Reference:	QF2-CF150-04

* All metal pipe materials are covered which have a thermal conductivity equal or lower than the metal pipe tested and provided the melting point is at least equal or greater.

** Or equivalent elastomeric pipe insulation classified BL-s2, d0 or better to EN13501-1

*** Or equivalent phenolic pipe insulation classified BL-s1, d0 or better to EN13501-1

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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