

QIF-FW132-02

Metal pipes penetrating a flexible or rigid wall (132mm 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

Flexible walls to be insulated and to have a minimum 72mm wide stud and minimum 2no. layers of 15mm Gypsum boards in accordance with EN 520 or Calcium Silicate boards which are CE Marked based on an ETA on both sides of the stud.

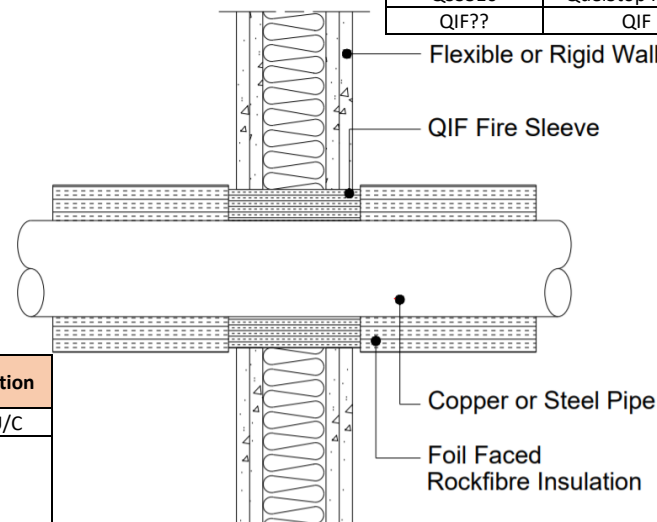
Once positioned correctly the perimeter of the QIF should be sealed with QuelStop Intumescent Acrylic Sealant.

Test results obtained with flexible supporting walls may be applied to concrete or masonry elements of an overall thickness equal to or greater than that of the element used in the test.

BS EN 1366-3:2021 Section 13.7: The distance between the aperture edges of penetration seals in a building element shall be as tested or minimum 100mm. The distance between the aperture edge of a penetration seal and any other penetration (e.g., door) in a building element shall be minimum 200mm.

Quelfire Products Required

Product Code	Description
QSS310	QuelStop Intumescent Acrylic Sealant
QIF??	QIF Insulated Fire Sleeve



Service Type	Size of Services	Pipe Wall Thickness	Recommend hole Dia.	QIF fire Sleeve required	Protrusion required	Additional Insulation	Classification
Copper/ Cast Iron & Steel Pipe*	Ø15mm	2 – 14.2mm	Ø67mm	QIF17	≥9mm	≥40mm thick foil faced rock fibre insulation ≥120kg/m ³ density (C/I)	EI 120 U/C
	Ø16 – 19mm		Ø67mm	QIF17			E 120 U/C EI 30 U/C
	Ø19 – 23mm		Ø71mm	QIF21			
	Ø25 – 29mm		Ø77mm	QIF27			
	Ø32 – 36mm		Ø84mm	QIF34			
	Ø40 – 44mm		Ø92mm	QIF42			
	Ø46 – 50mm		Ø98mm	QIF48			
	Ø52 – 56mm		Ø104mm	QIF54			
	Ø58 – 62mm		Ø110mm	QIF60			
	Ø65 – 69mm		Ø117mm	QIF67			
	Ø74 – 78mm		Ø126mm	QIF76			
	Ø78 – 82mm		Ø130mm	QIF80			
	Ø87 – 91mm		Ø139mm	QIF89			
	Ø100 – 104mm		Ø152mm	QIF102			
	Ø106 – 110mm		Ø158mm	QIF108			
	Ø112 – 116mm		Ø164mm	QIF114			
	Ø125 – 129mm		Ø177mm	QIF127			
	Ø138 – 142mm		Ø190mm	QIF140			
	Ø157 – 160mm		Ø209mm	QIF159			

* 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.

Spacing as per BS EN 1366-3: 2021, Section 13.7

** Please also consider any requirements that the wall manufacturer has with regards to spacing between openings.

Minimum distance from edge of opening to another aperture with a service penetration tested to BS EN 1366-3	100mm**
Minimum distance from edge of opening to another aperture with a penetration <u>not</u> tested to BS EN 1366-3	200mm**

Test standard:	BS EN1366-3 & EN13501-2
Substrate minimum thickness:	132mm
First Service Support:	≤150mm
Drawing Scale:	Not to Scale
Issue Number:	2
Date of Issue:	January 2023
Detail Reference:	QIF-FW132-02

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 either side of the firestop to ensure that no load is transferred onto the firestop seal.

Scope and Liability:

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