

QB-FW100-D-04

Insulated Metal Pipe Penetrating a flexible or rigid wall (100mm or thicker)



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Additional Instructions

Flexible walls can be insulated or uninsulated and must have a minimum 50mm wide stud and a minimum 2 x layer of 12.5mm fire rated plasterboard on both sides of the stud.

Apertures / Letterboxes should be constructed in accordance with the fire rated wall system manufacturer's recommendations. See also ASFP Advisory notes 10 & 15.

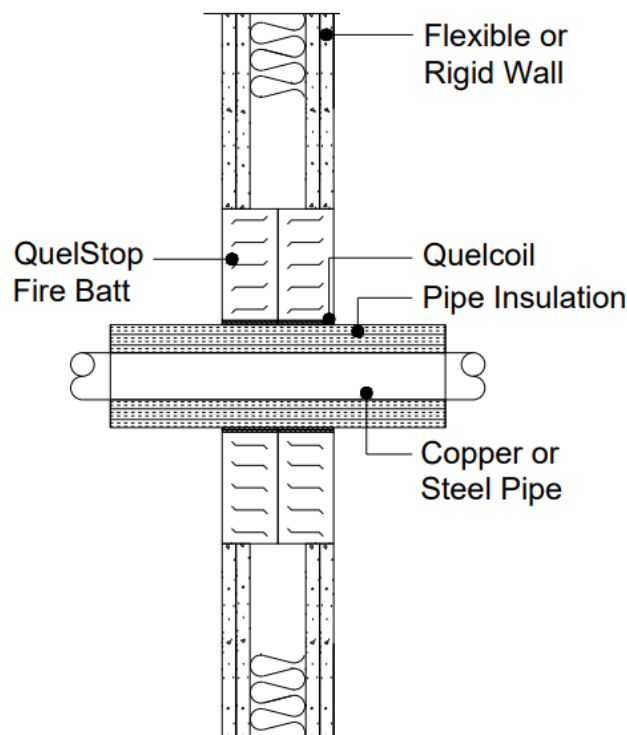
Please note that the maximum size of the aperture tested unframed and unlined as shown in the image is 600mm x 600mm.

All edges, cuts and joints of the QuelStop Fire Batt tightly butted and 'buttered' sealed with QuelStop Acrylic Sealant across the entire thickness of the QuelStop Fire Batt.

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

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.

* All metal pipe materials are covered which have a thermal conductivity equal or lower than copper and provided the melting point is at least equal or greater. This allows the copper pipe test evidence to be used for steel, stainless steel or cast iron.



Quelfire Products Required

Product Code	Description
QB50D	QuelStop Fire Batt
QUELCOIL	QuelCoil Continuous Intuwrap
QSS310	QuelStop Intumescent Acrylic Sealant
QSC5KG	QuelStop Ablative Coating 5kg tub

Multiple Service Penetration Spacing

Distances are from edge of fire stop seal

** - Refer to WF Classification report 401716 issue 5, page 60

Minimum distance from edge of Opening	0mm**
Minimum distance between Services within the table below	0mm**
Minimum distance between other Service types	50mm**

Metal Pipe Details	Page No.
≤42mm	1
≥42mm	2
Bundle of 15mm	3

Service Type	Size of Services	Pipe Wall Thickness	Pipe Insulation	No. QuelCoil Layers required	Classification
Copper Pipe*	≤Ø42mm	1.2 - 14.2mm	13 - 25mm Thick Armaflex (C/S)	2 Layers	E 120 C/U
			25mm Thick Armaflex (C/S)		EI 60 C/U
			25 - 40mm Thick Kingspan Kooltherm (C/S)		EI 120 C/U
			40mm Thick Kingspan Kooltherm (C/S)		E 120 C/U
			50mm Thick Rocklap H&V Stone Wool (C/S)		EI 60 C/U**
					EI 120 C/U
					E 120 C/U
					EI 90 C/U

To be read in conjunction with:	WF Classification Report 401716 Issue 6, Page 23
Test standard:	BS EN1366-3:2009 & EN13501-2:2016
Substrate minimum thickness:	100mm
First Service Support:	≤400mm
Maximum Aperture:	2600mm wide x 1200mm high (Framed & Lined) 600mm wide x 600mm high (Unframed & Unlined)
Drawing Scale:	Not to Scale
Issue Number:	4
Date of Issue:	October 2021
Detail Reference:	QB-FW100-D-04

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:

- 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/>

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Insulated Metal Pipe Penetrating a flexible or rigid wall (100mm or thicker)



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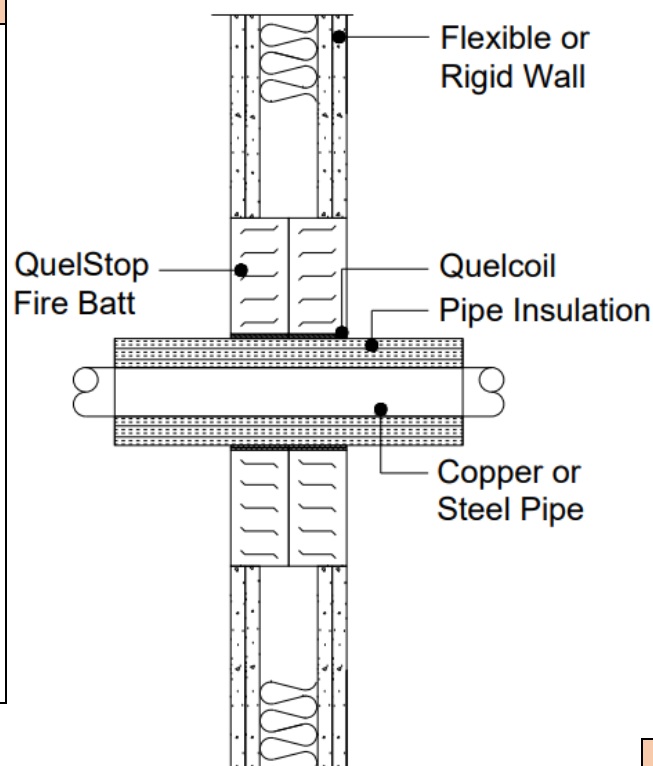
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QUELCOIL	QuelCoil Continuous Intuwrap
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QSC5KG	QuelStop Ablative Coating 5kg tub

Multiple Service Penetration Spacing

Distances are from edge of fire stop seal

** - Maximum of 2 pipes in a linear configuration

Minimum distance from edge of opening without stone wool insulation	30mm
Minimum distance from edge of Opening with stone wool	0mm
Minimum distance between Services without stone wool insulation	200mm
Minimum distance between Services with stone wool	50mm**
Minimum distance between other service types	200mm

Metal Pipe Details	Page No.
≤42mm	1
≥42mm	2
Bundle of 15mm	3

Service Type	Size of Services	Pipe Wall Thickness	Pipe Insulation	QuelCoil Layers required	Classification
Copper Pipe*	Ø42 - 159mm	1.2 - 14.2mm	13 - 25mm Thick Armaflex (C/S)	2 Layers	E 60 C/U
	Ø42 - 108mm		25 - 40mm Thick Kingspan Kooltherm (C/S)		EI 30 C/U
	Ø42 - 159mm	2.0 - 14.2mm	50mm Thick Rocklap H&V Stone Wool (C/S)		E 120 C/U EI 45 C/U

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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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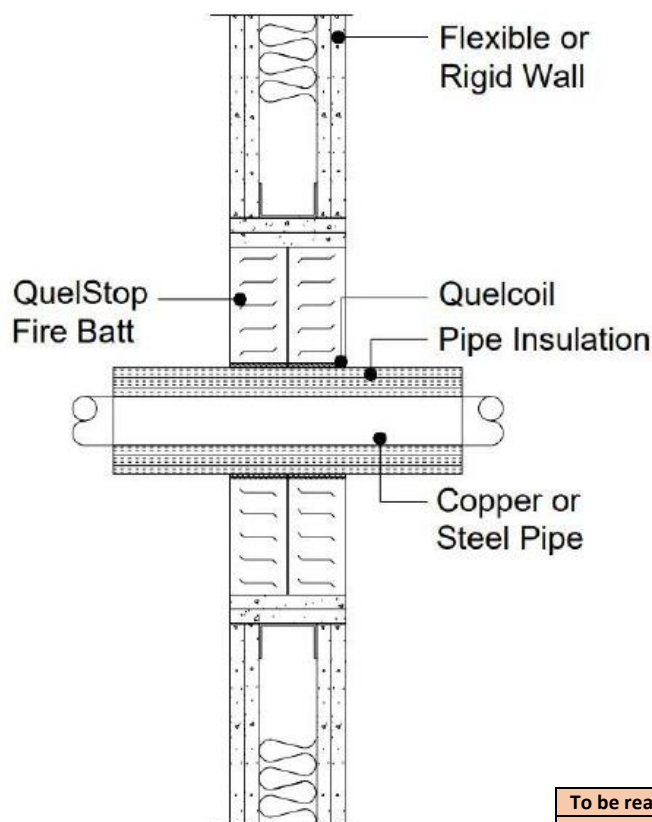
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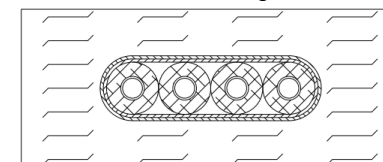
Multiple Service Penetration Spacing

Distances are from edge of fire stop seal

Minimum distance from edge of opening	30mm
Minimum distance between services within the table below	200mm
Minimum distance between other service types	200mm

Additional Instructions

Up to 4no. Insulated Copper or Steel pipes can be grouped, with 2 layers of QuelCoil wrapped around the outside of the group of pipes as shown in drawing below:



Metal Pipe Details	Page No.
≤42mm	1
≥42mm	2
Bundle of 15mm	3

Service Type	Size of Services	Pipe Wall Thickness	Pipe Insulation	QuelCoil Specification (Installed both sides of the wall)	Classification
Copper pipe*	≤Ø15mm (line of up to 4no.)	0.5mm	9mm Thick Armacell Armaflex (C/S)	2 layers	E 120 C/U EI 60 C/U

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