

QB-FW100-D-27

Large plastic pipe penetrating a flexible or rigid wall (100mm 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 (Insulated or Uninsulated) to have a minimum 50mm wide metal or timber stud and minimum 2no. layer of 12.5mm 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. For timber stud walls there shall be a minimum distance of 100mm from the penetration seal to any timber stud and the void between the stud and seal shall be filled with a minimum 100mm depth of Class A1 or A2 insulation.

Apertures / Letterboxes should be constructed in accordance with the fire rated wall system manufacturer's recommendations.

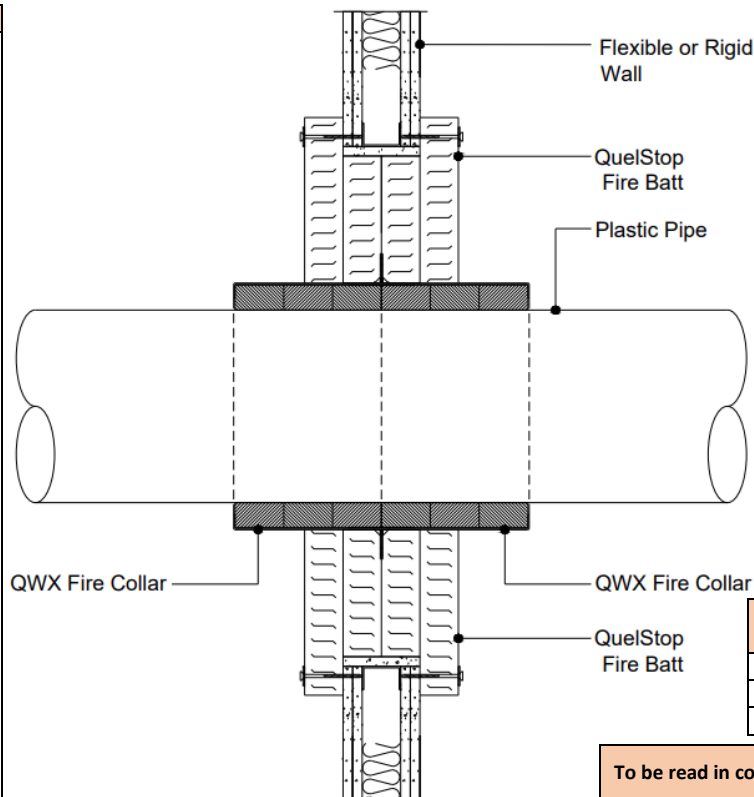
Follow the installation steps referenced in the [QuelStop Fire Batt installation guidance](#) document.

2 x Layers of QuelStop Fire Batt horizontally fitted (Blue Line – see page 2) within the aperture butted tightly around the QWX Fire Collars and sealed with QuelStop Acrylic Sealant. No mechanical fixings are required through the QWX fixing lugs in this application.

In addition, QuelStop Fire Batt should be patters fixed to both sides of the wall with a ≥50mm overlap on all sides. QuelStop Fire Batt is bedded to wall using QuelStop Acrylic Sealant and mechanically fixed to the substrate with minimum 6mm x 80mm steel wood screws and 25mm diameter steel retaining washers for flexible partitions or 6mm x 100mm countersunk concrete screws with 25mm steel retaining washers for rigid walls. QuelStop Fire Batt is installed in vertical rows (Red Line – see page 2) with fixings installed in the centre of the overlap at maximum 300mm centres in a minimum of 2 horizontal edges and in every corner of the batt seal.

Multiple Service Penetrations: 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.



Quelfire Products Required

Product Code	Description
QB50D	QuelStop Fire Batt
QWX???	Fire Collar for large dia. pipes
QSS310	QuelStop Intumescent Acrylic Sealant
QSC5KG	QuelStop Ablative Coating 5kg tub

Single Skin Plasterboard Walls

This standard detail can also be used in conjunction with single skin plasterboard wall systems that are 100mm or thicker and where apertures are framed and lined.

This does however affect the overall scope/fire rating. Please refer to detail [QB-FW100-D-00B](#) for full details and information.

Unframed and unlined apertures

Apertures can be lined with QuelStop Fire Batt refer to [QB-FW100-D-00C](#) for further information.

For 100mm thick walls only, this detail can be used in conjunction with [QB-FW100-D-00D](#) for a 700mm wide x 600mm high unframed and unlined aperture.

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 shown	50mm
Minimum distance between other Service types	50mm

To be read in conjunction with:	UL Classification Report 4790517197 Issue 3 , Pages 66, 67, 68 & 134
Test & Classification standard:	BS EN1366-3 & EN13501-2
Substrate minimum thickness:	100mm
First Service Support:	≤400mm
Maximum Aperture:	2600mm wide x 1200mm high (Framed & Lined)
Maximum aperture size may be increased to 2600 x 2600mm but limits the fire rating to a maximum of EI60.	
Drawing Scale:	Not to Scale
Issue Number:	2
Date of Issue:	September 2023
Detail Reference:	QB-FW100-D-27

Service Type	Size of Services	Pipe Wall Thickness	2no. QWX Required	Classification
PE, PE-X, ABS, SAN-PVC* Pipe	Ø250mm	7.8mm	QWX250	E 180 C/C
	Ø315mm	9.8mm	QWX315	EI 120 C/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				

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.

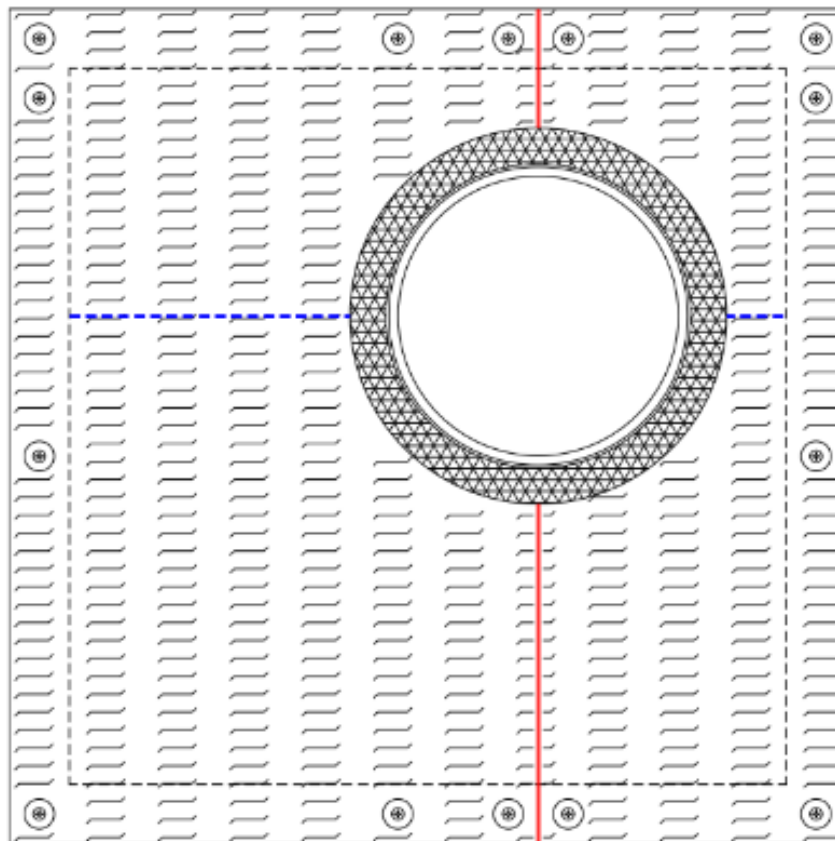
Scope and Liability:

- 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.
- The summary is not exhaustive and does not consider all issues relevant to the enquiry. It is limited to the information and time available to us. We have not verified any information made available to us by you or any other source, nor have we carried out a physical inspection of any property. We make no representations, warranties or guarantees, whether expressed or implied, that any information is accurate, complete or up to date.
- 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/>

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 **Blue Line** represents the double layer of QuelStop Fire Batt inserted horizontally within the aperture. The **Red Line** represents the QuelStop Fire Batt, patress fitted and fixed vertically to the supporting construction.

**Important Information:**

1. 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.
2. 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:

1. 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.
2. The summary is not exhaustive and does not consider all issues relevant to the enquiry. It is limited to the information and time available to us. We have not verified any information made available to us by you or any other source, nor have we carried out a physical inspection of any property. We make no representations, warranties or guarantees, whether expressed or implied, that any information is accurate, complete or up to date.
3. 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.
4. Full terms and conditions of sale are available at <https://www.quelfire.co.uk/terms-conditions-of-sale/>