

QB-FW100-P-28

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.

The aperture is not required to be framed and lined.

On the side where the pipe bend (connector) is located, an additional layer of QuelStop Fire Batt is pattress fitted to the first layer using 75mm long Quelfire Pigtail Screws at minimum 150mm centres.

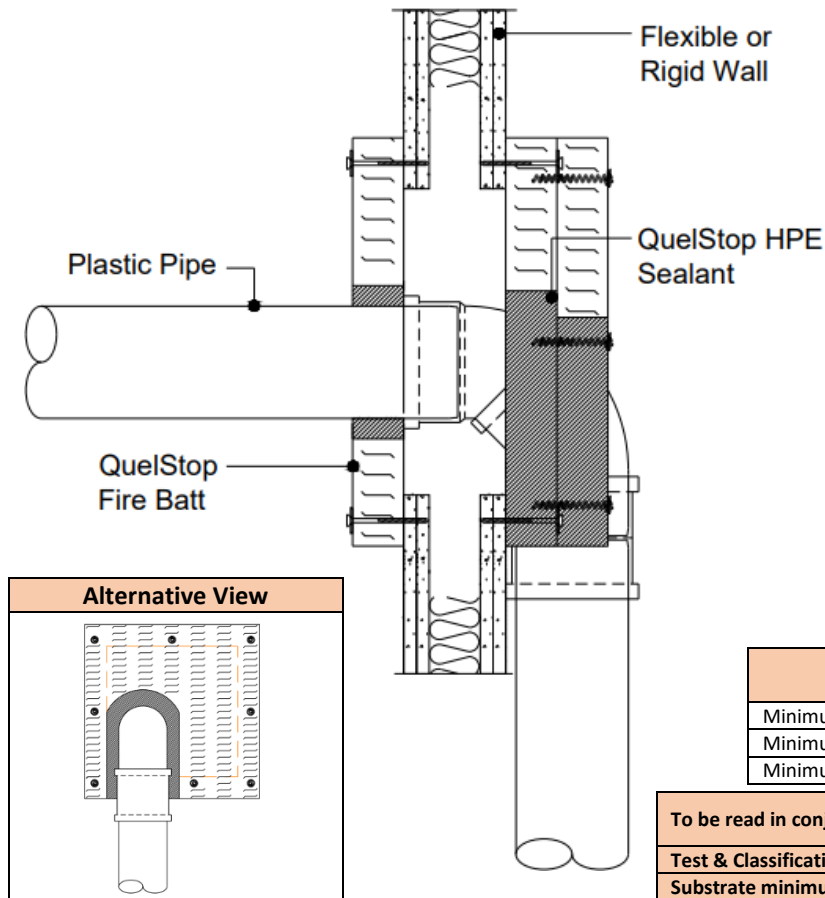
The pattress overlap must be >50mm on the side where the pipe bend (connector) is located

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.

Single Skin Plasterboard Walls

This standard detail can also be used in conjunction with single skin plasterboard wall systems that are 100mm or thicker. This does however limit the overall fire rating to 60 minutes, or the lowest fire rating shown.



Quelfire Products Required	
Product Code	Description
QB50D	QuelStop Fire Batt
QHPE310	QuelStop HPE Graphite Sealant
QSS310	QuelStop Intumescent Acrylic Sealant
QSC5KG	QuelStop Ablative Coating 5kg tub
Fixings	Select correct substrate fixing

QuelStop Fire Batt Pattress Fixing Instruction

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

The minimum overlap to the substrate must be 50mm for apertures up to 800mm wide x 600mm high.

The QuelStop Fire Batt is mechanically fixed to the substrate using either 6mm x 80mm steel 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.

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 shown	0mm
Minimum distance between other Service types	50mm

To be read in conjunction with:	UL Classification Report 4790517197 Issue 3 , Pages 66, 67, 68 & 198
Test & Classification standard:	BS EN1366-3 & EN13501-2
Substrate minimum thickness:	100mm
First Service Support:	≤400mm
Maximum Aperture:	800mm wide x 600mm high
Drawing Scale:	Not to Scale
Issue Number:	2
Date of Issue:	September 2023
Detail Reference:	QB-FW100-P-28

Service Type	Size of services	Pipe Wall Thickness	QuelStop HPE Sealant (Installed both sides)	Classification
U-PVC/ C-PVC* Pipe	≤Ø110mm	3.2mm	20mm Annulus Full Depth	EI 90 U/C

*U-PVC according to EN 1329-1, EN 1452-1 and EN1453-1 and C-PVC according to EN 1566-1

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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