

HPE-FW100-02

CPVC Sprinkler pipe penetrating a flexible or rigid wall (100mm or thicker)

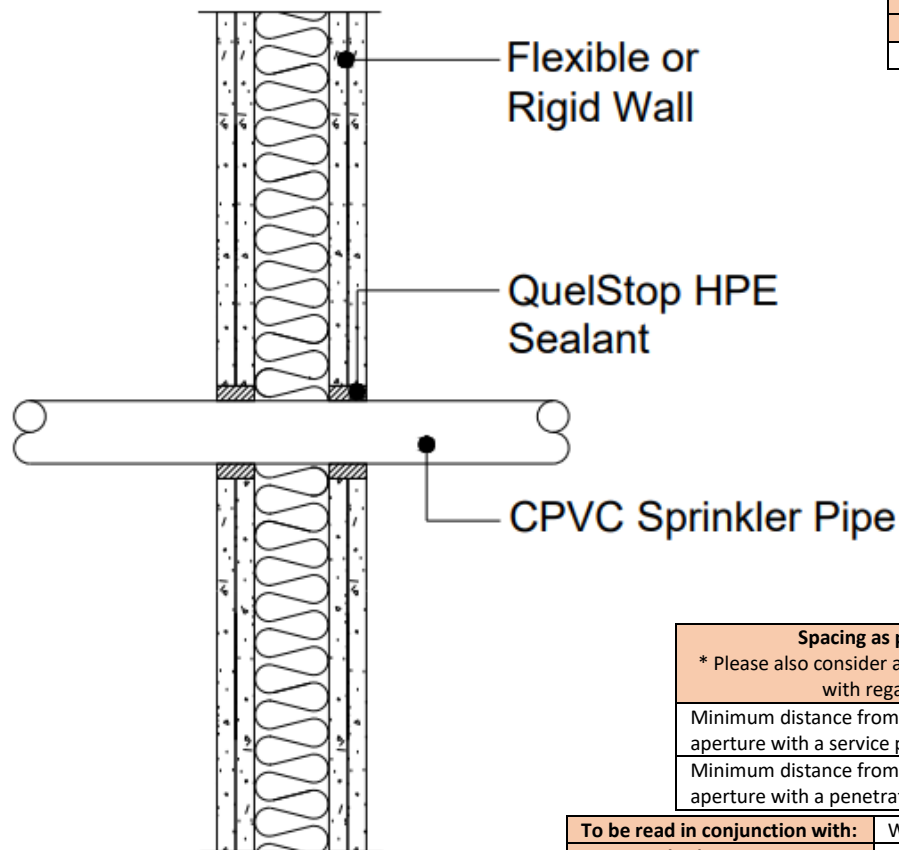
This standard detail is intended for general information only and all details should be checked against all relevant supporting test evidence, certification and installation guidelines. In line with the company's policy of continual development, details are subject to change and/ or withdrawal therefore you must ensure this is the latest published detail and instructions.

Additional Instructions

Flexible walls to be insulated ($\geq 45\text{kg/m}^3$ Rock Fibre) and to have a minimum 50mm wide stud and minimum 2no. layers 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.

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
QHPE310	QuelStop HPE Graphite Sealant

CPVC Pipe Detail	Page No.
No Sleeve	1
Sleeved	2

Chemical Compatibility

QuelStop HPE Sealant has been approved by both Lubrizol and Spears to be used with their CPVC pipe systems.

Service Type	Size of services	Pipe Wall Thickness	QuelStop HPE Sealant (Installed both sides)	Backing Material	Wall Insulation Required	Classification
CPVC Pipe	$\leq \varnothing 48.6\text{mm}$	4.3mm	10mm Annulus 25mm Depth	$\geq 45\text{kg/m}^3$ Rock Fibre	$\geq 45\text{kg/m}^3$ Rock Fibre	EI 120 U/C
	$\varnothing 48.7 - 73\text{mm}$	5.8mm				E 120 U/C EI 60 U/C

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 not tested to BS EN 1366-3	200mm*

To be read in conjunction with:	WF Classification Report 383750B Issue 5, Page 14
Test standard:	BS EN1366-3 & EN13501-2:2016
Substrate minimum thickness:	100mm
First service support:	$\leq 400\text{mm}$
Drawing Scale:	Not to Scale
Issue Number:	4
Date of Issue:	February 2023
Detail Reference:	HPE-FW100-02

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:

- 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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HPE-FW100-02

CPVC Sprinkler pipe penetrating a flexible or rigid wall (100mm or thicker)

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Additional Instructions

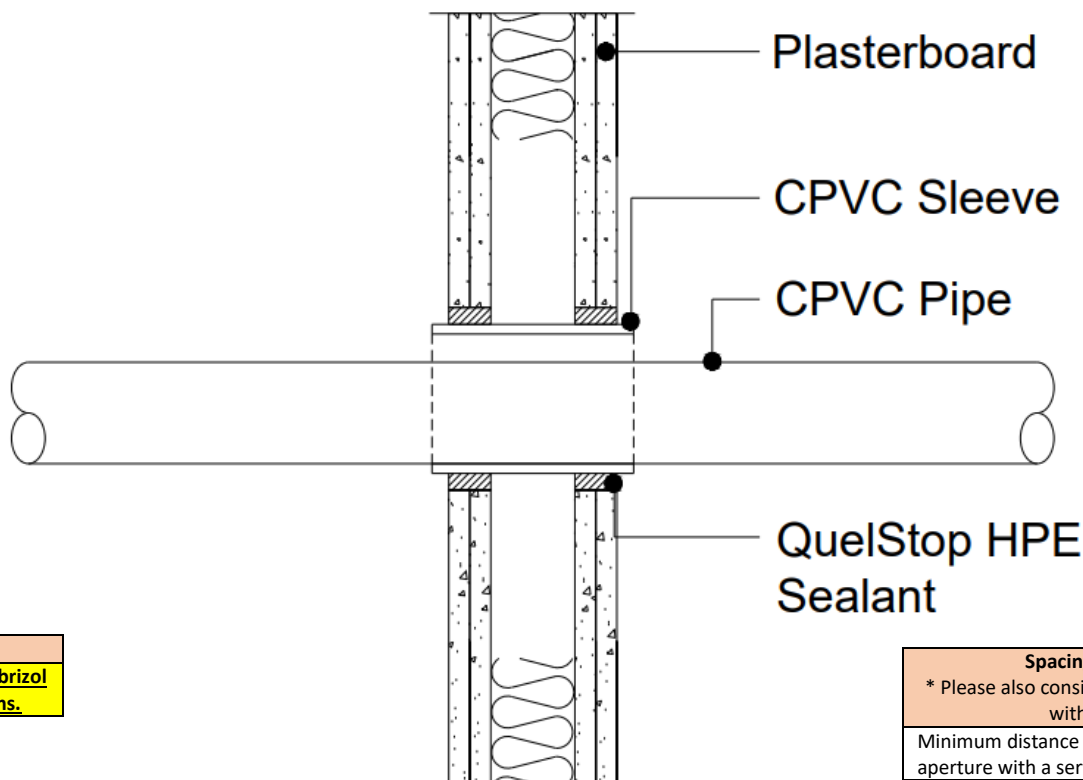
Flexible walls can be insulated or uninsulated and must have a minimum 50mm wide stud and minimum 2no. layers of 12.5mm Gypsum boards in accordance with EN 520 or Calcium Silicate boards which are CE Marked based on an ETA, on both sides of the stud.

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.

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* 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*

To be read in conjunction with:	WF503067/R Issue 1 – Specimen H.
Test standard:	BS EN1366-3
Substrate minimum thickness:	100mm
First service support:	≤400mm
Drawing Scale:	Not to Scale
Issue Number:	4
Date of Issue:	February 2023
Detail Reference:	HPE-FW100-02

Service Type	Size of Services	Pipe Wall Thickness	Size of CPVC Sleeve	Sleeve wall thickness	QuelStop HPE Sealant (installed both sides)	Fire Rating
CPVC	Ø60mm	4.7mm	Ø73mm	5.7mm	10mm Annulus 25mm Depth	120 minutes Integrity U/C 120 minutes Insulation U/C

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