

QRS-FW75-01

Plastic Vent Duct penetrating a flexible or rigid wall (75mm 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 stud and minimum 1no. 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.

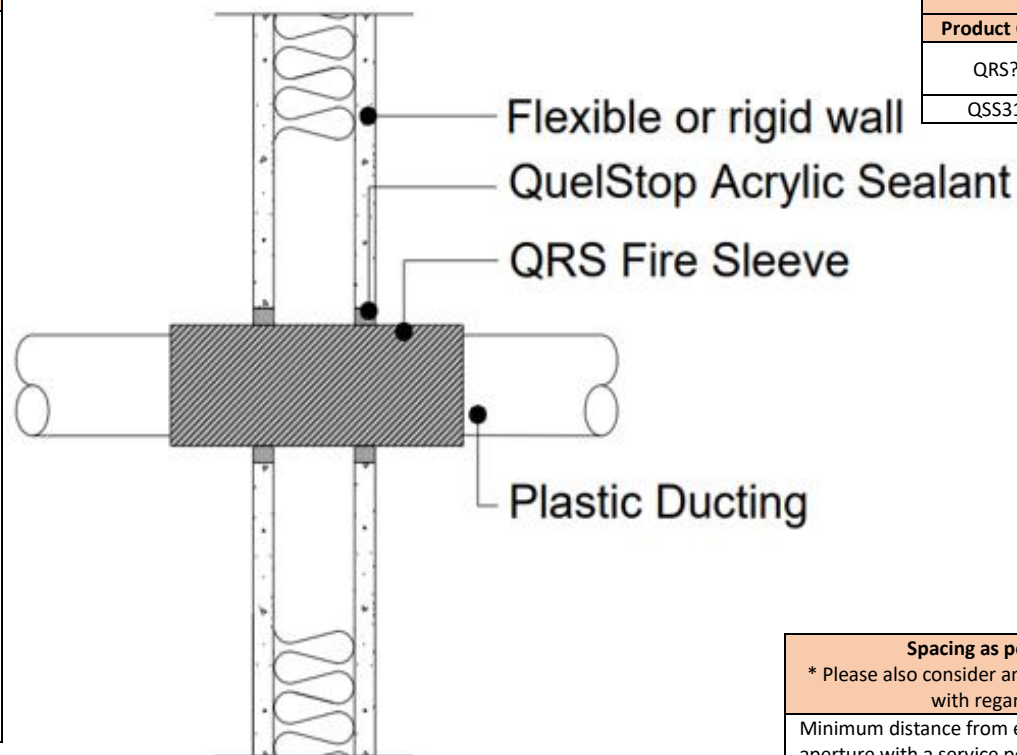
The fire rated board construction should be cut as tight as possible around the QRS Fire Sleeve. The QRS should be fitted so that it is centrally positioned and protruding from or at least flush with the outside of the face of both sides of the wall. Once finally positioned, the small gap around the QRS should be sealed with QuelStop Intumescent Sealant.

If the gap around the QRS exceeds 5mm then the fire rated board should be replaced in accordance with the board manufacturers recommendations, or it may be necessary to form a letterbox and complete the seal with QuelStop Fire Batt and Sealant – additional details available upon request.

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
QRS??	Fire Sleeve for plastic ducts. Refer to table below for sizes.
QSS310	QuelStop Intumescent Acrylic Sealant

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*

Service Type	Size of Services	Pipe Wall Thickness	QRS Fire Sleeve Required	Recommended Aperture	Classification**
U-PVC Vent Duct*	110 x 54mm	1.5mm	QRS110/54SS	126 x 70mm	E 60 U/U
	204 X 60mm		QRS204/60SS	219 x 75mm	E 60 U/U EI 30 U/U
	220 x 90mm		QRS220/90SS	244 x 114mm	E 60 U/U
	Ø125mm		QRS130	Ø170mm	
* See Section 4.3 of the classification report for comments on 'ducting'.					
** Utilising the principles of EN 13502-2: 2016.					

To be read in conjunction with:	QRS WF Classification Report 360281/C Issue 3, Page 16
Test standard:	BS EN1366-3 & EN13501-2:2016
Substrate minimum thickness:	75mm
First Service Support:	≤400mm
Drawing Scale:	Not to Scale
Issue Number:	5
Date of Issue:	September 2025
Detail Reference:	QRS-FW75-01

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.

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