### QRS-FW100-01

# Plastic Vent Duct 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.

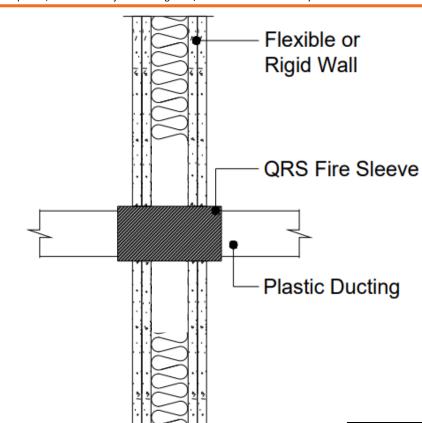
### Additional Instructions

Flexible walls (Insulated or Uninsulated) to have a minimum 50mm wide 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.

The 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

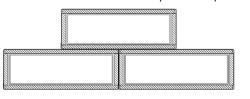
Test results obtained with flexible supporting walls may be applied to concrete or masonry elements of an overall thickness equal to or greater than that of the element used in the test.



Quelfire Products Required				
Product Code	Description			
QRS??	Fire Sleeve for plastic ducts.			
	Refer to table below for sizes			
QSS310	QuelStop Intumescent Acrylic Sealant			

### **QRS** spacing

The QRS Fire Sleeves have been fire tested in the cluster formation as shown below in accordance with the BS EN 1366-3 guidelines. This means the QRS Fire Sleeves can have 0mm spacing between sleeves and be positioned within the wall either Horizontally or Vertically.



QRS detail	Page No.	
Rectangular	1	
Circular	2	

To be read in conjunction with:	WF Test Report 438146/R Specimen B & C		
Test standard:	BS EN 1366-3		
Substrate minimum thickness:	100mm		
First service support:	≤400mm		
Drawing Scale:	Not to Scale		
Issue Number:	2		
Date of Issue:	January 2023		
Detail Reference:	QRS-FW100-01		

Service Type	Size of Services	Pipe Wall Thickness	QRS Required	Recommended Aperture	Fire Rating
Rectangular	204 x 60mm	1.5 -	QRS205/60	230 x 85mm	120 minutes Integrity U/U
U-PVC Duct	220 x 90mm	2.0mm	QRS220/90	262 x 132mm	90 minutes Insulation U/U

### 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 either side 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.
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### QRS-FW100-01

# Plastic Vent Duct penetrating a flexible or rigid wall (100mm or thicker)



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### Additional Instructions

Flexible walls to be insulated and to have a minimum 50mm wide 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.

The 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

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.

Pipe Wall

Thickness

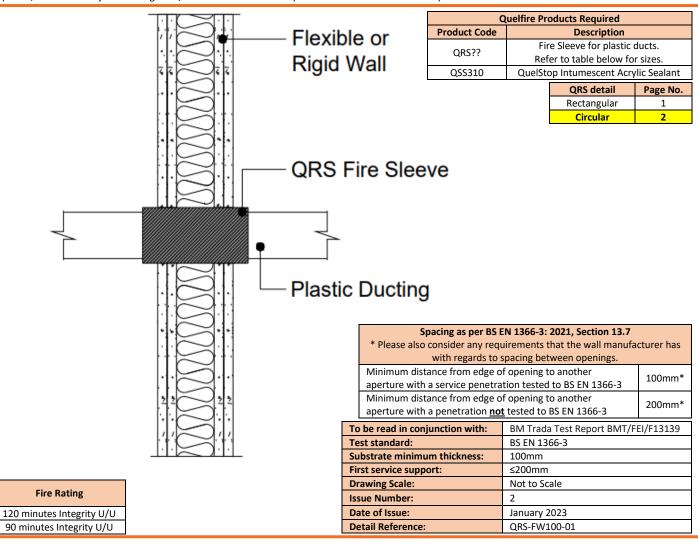
1.5mm

Size of

Services

Ø100mm

Ø125mm



# U-PVC Duct

Service Type

Circular

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.

Recommended

Aperture

Ø135mm

Ø170mm

2. 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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QRS

Required

**QRS110** 

QRS130