

QWR-FW100-04

Plastic Vent Ducts penetrating a flexible 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. 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.

The QWR Fire Collar is secured using M6 X 65mm steel hollow wall anchors through all lugs.

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. Refer to detail [QWR-RW100-04](#) for guidance on QWR fire collar fixings specific to rigid walls.

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.

M6 x 65mm Steel
Hollow Wall Anchor

Flexible Wall

205x60mm Plastic Duct

QWR 205x60 Fire Collar

Quelfire Products Required

Product Code	Description
QWR205/60	Fire Collar for 204 x 60mm Rectangular ducts

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 Test Report 412164 – Specimen E
Test standard:	BS EN1366-3
Substrate minimum thickness:	100mm
First service support:	≤400mm
Drawing Scale:	Not to Scale
Issue Number:	3
Date of Issue:	January 2023
Detail Reference:	QWR-FW100-04

Service Type	Size of Service	Pipe Wall Thickness	Recommend Hole Dia.	QWR Collar	Fire rating
Rectangular Vent duct	204 x 60mm	1.5mm	206 x 62mm	QWR205/60	90 Minutes Integrity U/U 30 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.

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