

QRS-FW100-06

Plastic to Metal vent duct penetrating an external wall



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 to the inner leaf (fire risk side) and 1 x 25mm thickness CP board to the outer leaf (non-fire risk side).

The Ryton Duct is installed through the wall system and is long enough to extend through the cavity to the external face.

The plasterboard construction should be cut as tight as possible around the Ryton Duct. ≤10mm annular space around the Ryton Duct is sealed with QuelStop Intumescent Acrylic Sealant to a depth of 25mm.

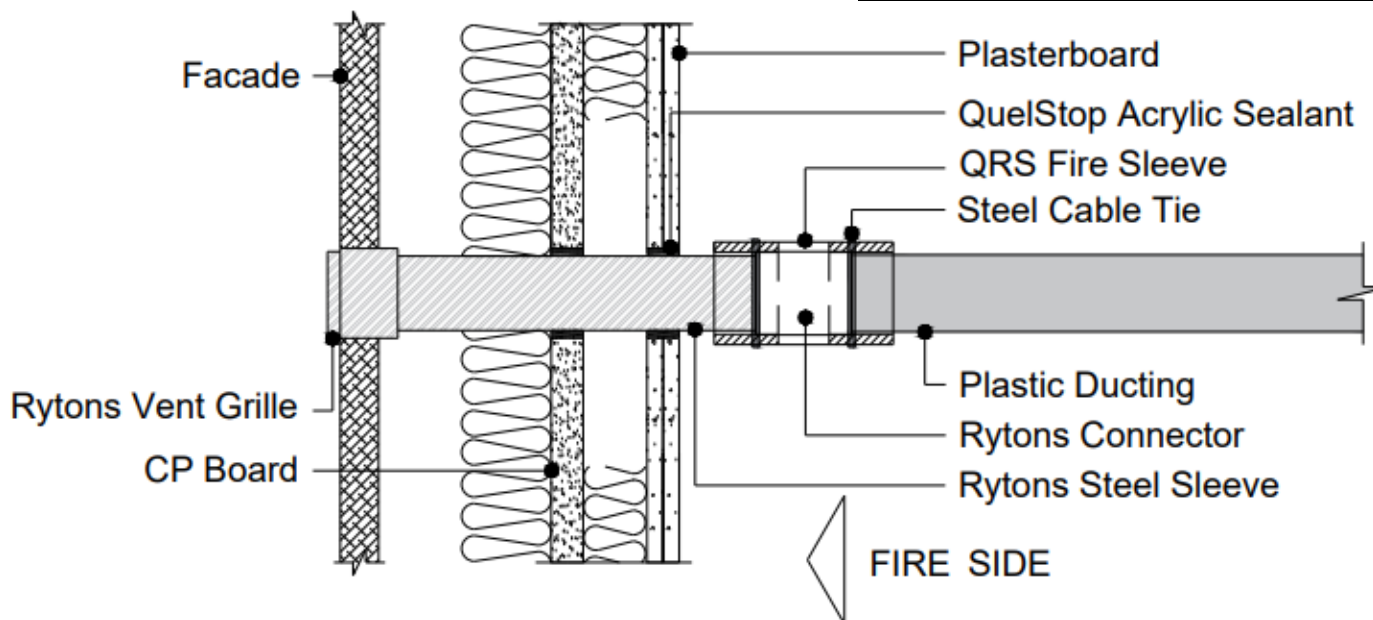
The Ryton Duct connector must be protruding a minimum 100mm from the inner leaf of the supporting construction to ensure that the QRS is installed centrally around the Ryton Duct connector and fixed securely in place using 2No. steel cable ties tightened around the QRS Fire Sleeve



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
QSS310	QuelStop Intumescent Sealant
QRS	QRS Rectangular Fire Sleeve



Service Type	Size of Services	Pipe Wall Thickness	QRS Required	Fire Rating
Rectangular U-PVC Duct	110 x 54mm	1.5 - 2.0mm	QRS110/54	E 60 U/U
	204 x 60mm		QRS205/60	EI 20 U/U
	220 x 90mm		QRS220/90	E 90 U/U EI 60 U/U

To be read in conjunction with:	UL Technical Assessment Report 4790834656-1
Test standard:	BS EN1366-3
Substrate minimum thickness:	100mm
First service support:	≤400mm (Fire Side only)
Drawing Scale:	Not to Scale
Issue Number:	1
Date of Issue:	August 2023
Detail Reference:	QRS-FW100-06

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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