

QRS-FW130-02

Rectangular Plastic Vent Duct penetrating wall tight to soffit

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

This is an indicative detail only of how the QRS might be installed where ducts are installed tight to a ceiling soffit. The fire rated board construction should be cut as tight as possible around the QRS Fire Sleeve.

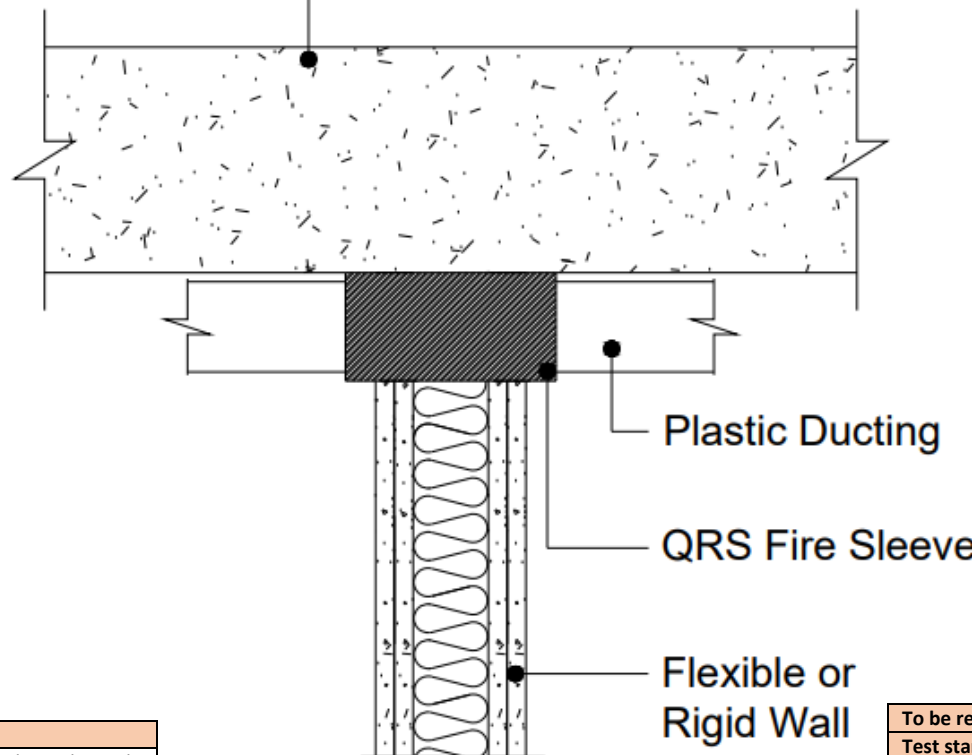
The QRS should be centrally positioned and fitted so that it is protruding or at least flush with the outside of the face of both sides of the wall.

Once finally positioned, the small gap around the QRS, which should not exceed 5mm, should be sealed with QuelStop Intumescent Sealant.

Where the gap exceeds this, it should be replaced in accordance with the board manufacturer's recommendations.

Where the QRS is installed tight to the soffit (0mm) then Intumescent Sealant is only required to the 3 remaining sides – it is however good practice to seal all joints and imperfections of fit if possible.

Concrete Floor



Quelfire Products Required

Product Code	Description
QSS310	QuelStop Intumescent Sealant
QRS??	QRS Rectangular Fire Sleeve

Additional Information

Typically, service penetration seals are tested with 200mm of partition above the seal as per clause 6.1 of EN1366-3: 2009 to avoid boundary effects from the furnace. This is not representative of the seal being installed against the soffit in practice, however the presence of a rigid soffit will provide more stability for the seal as it will not degrade like a plasterboard partition would in a flexible construction. Therefore, the opinion is that the installation of the QRS against the soffit as shown should not have a detrimental effect on the fire performance as set out in detail [QRS-FW130-01](#).

To be read in conjunction with:	QRS-FW130-01
Test standard:	BS EN1366-3
Substrate minimum thickness:	130mm
First service support:	≤250mm
Drawing Scale:	Not to Scale
Issue Number:	3
Date of Issue:	January 2023
Detail Reference:	QRS-FW130-02

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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