

QB-FW100-D-31

Metal Damper 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 metal or timber 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. For timber stud walls there shall be a minimum distance of 100mm from the penetration seal to any timber stud and the void between the stud and seal shall be filled with a minimum 100mm depth of Class A1 or A2 insulation.

Apertures / Letterboxes should be constructed in accordance with the fire rated wall system manufacturer's' recommendations.

Follow the installation steps referenced in the [QuelStop Fire Batt installation guidance](#) document.

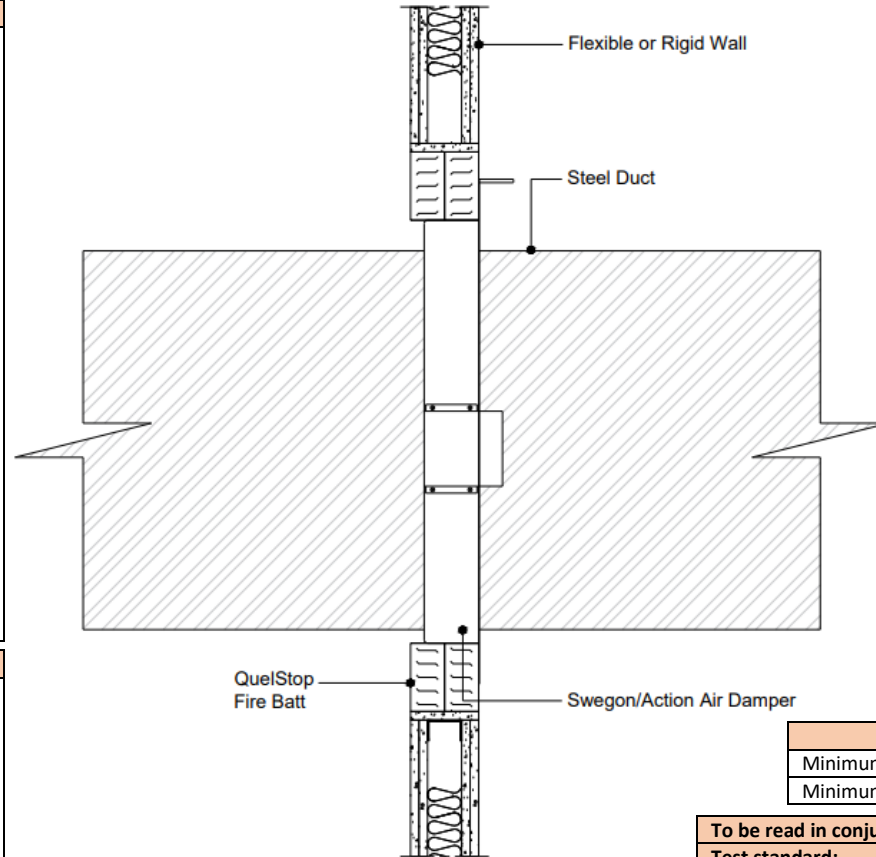
A minimum margin of 75mm of QuelStop Fire Batt installed between the damper and supporting construction is required.

The QuelStop Fire Batt should be cut to fit tightly against the Damper and all edges. A maximum gap of 10mm between the Damper and QuelStop Fire Batt can be sealed with QuelStop Acrylic Sealant.

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.

Important Note

This detail relates to the fire resistance performance of the Fire Stop seal up to and around the Damper only. The performance of the damper itself and any guidance for firestopping their system should also be verified with the manufacturer. The Damper should be installed and mechanically supported in accordance with the manufacturers guidance for their system. Dampers are tested to a different standard to "other service penetrations" therefore no other services (such as pipes and cables) should be present in the same aperture.



Quelfire Products Required	
Product Code	Description
QB50D	QuelStop Fire Batt
QSS310	QuelStop Intumescent Acrylic Sealant
QSC5KG	QuelStop Ablative Coating 5kg tub

Single Skin Plasterboard Walls

This standard detail can also be used in conjunction with single skin plasterboard wall systems that are 100mm or thicker and where apertures are framed and lined.

This does however affect the overall scope/fire rating. Please refer to detail [QB-FW100-D-00B](#) for full details and information.

Unframed and unlined apertures

Apertures can be lined with QuelStop Fire Batt refer to [QB-FW100-D-00C](#) for further information.

For 100mm thick walls only, this detail can be used in conjunction with [QB-FW100-D-00D](#) for a 700mm wide x 600mm high unframed and unlined aperture.

Multiple Service Penetration Spacing	
Minimum distance from edge of Opening	75mm
Minimum distance between Services within the table shown	200mm

To be read in conjunction with:	IFC assessment PAR/23604/01
Test standard:	BS EN 1366-3
Substrate minimum thickness:	100mm
First Service Support:	As per Damper manufacturer's guidelines
Maximum Aperture:	2600mm wide x 1200mm high (Framed & Lined)
Drawing Scale:	Not to Scale
Issue Number:	3
Date of Issue:	September 2023
Detail Reference:	QB-FW100-D-31

Service Type	Size of Damper	Damper Material	Fire Resistance
Actionair Smoke Shield PTC 501-SPAN Multi-blade Damper	≤620 X ≤620mm	Galvanised Steel	120 minutes Integrity
Actionair Smoke Shield PTC Multi-blade Damper			
Actionair Steel Damper			

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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