

QB-FW100-D-HOW-03 Double QuelStop Fire Batt & Intufoam (compressible linear joint seal) – head of wall seal



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 manufacturers recommendations.

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

QI50/45 Intufoam is installed compressed and flush to the outer face above each QuelStop Fire Batt within a gap $\leq 55\text{mm}$ at the head of the batt fitted up against the rigid floor soffit. QI50/45 will compress down to 25mm. Installed into a 55mm gap, QI50/45 would therefore accommodate up to 30mm of compression/deflection at the head of the seal.

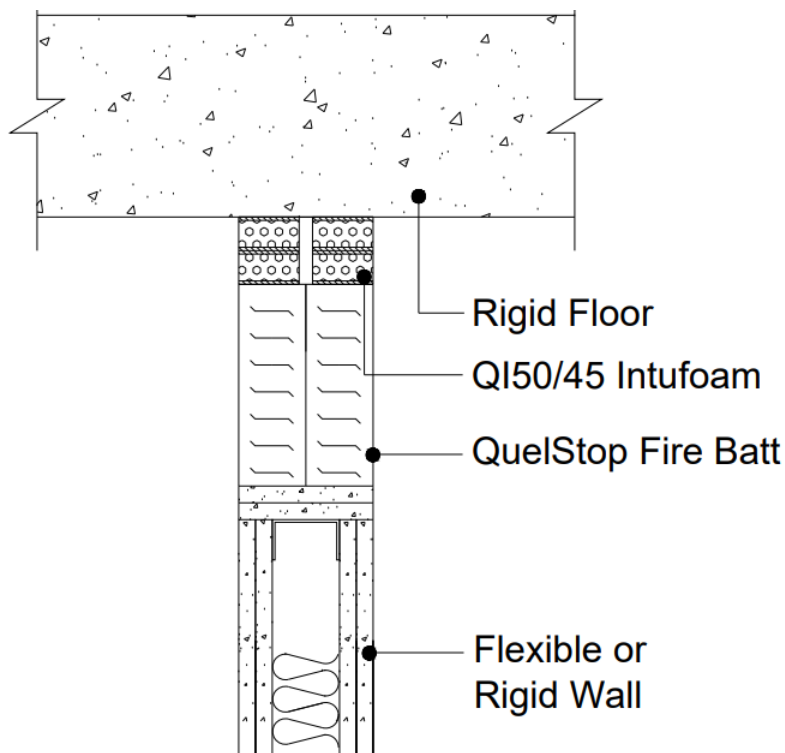
QI50/45 Intufoam should also be bedded on QuelStop Intumescent Sealant by applying to the faces between the Intufoam and the Fire Batt and also the Intufoam to supporting construction/floor.

This detail can be used in conjunction with [Quelfire's QB-FW100-D service penetration](#) range.

However, when used in conjunction with the QB-FW100-D detail range, the maximum aperture size permitted would be limited to 1100mm wide x 605mm high and the overall fire rating would be limited to the lowest rating.

We advise a minimum of 50mm of QuelStop Fire Batt between the QI Intufoam and the fire stop seal around the service penetration.

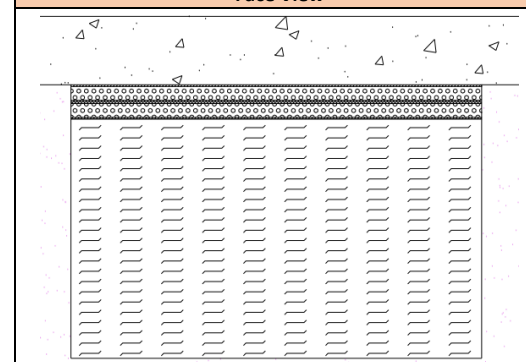
Test results obtained with flexible supporting walls may be applied to concrete or masonry elements of an overall thickness equal to or greater than that of the element used in the test.



Quelfire Products Required

Product Code	Description
QB50D	QuelStop Fire Batt
QI50/45	QI Intufoam
QSS310	QuelStop Intumescent Acrylic Sealant
QSC5KG	QuelStop Ablative Coating 5kg tub

Face View



Detail	Page No.
60 minutes	1
120 minutes	2

Service Type	Classification
Blank Seal up to 1100mm wide x 605mm high (framed)	EI 60

To be read in conjunction with:	UL Classification Report 4790517197 Issue 3 , Pages 66, 67, 68 & 78
Test & Classification standard:	BS EN1366-3 & EN13501-2
Substrate minimum thickness:	100mm
Maximum Aperture:	1100mm wide x 605mm high (Framed and Lined)
Drawing Scale:	Not to Scale
Issue Number:	8
Date of Issue:	July 2025
Detail Reference:	QB-FW100-D-HOW-03

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:

- 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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QB-FW100-D-HOW-03 Double QuelStop Fire Batt & Intufoam (compressible linear joint seal) – head of wall seal



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Additional Instructions

Flexible walls to be insulated and 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 manufacturers recommendations.

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

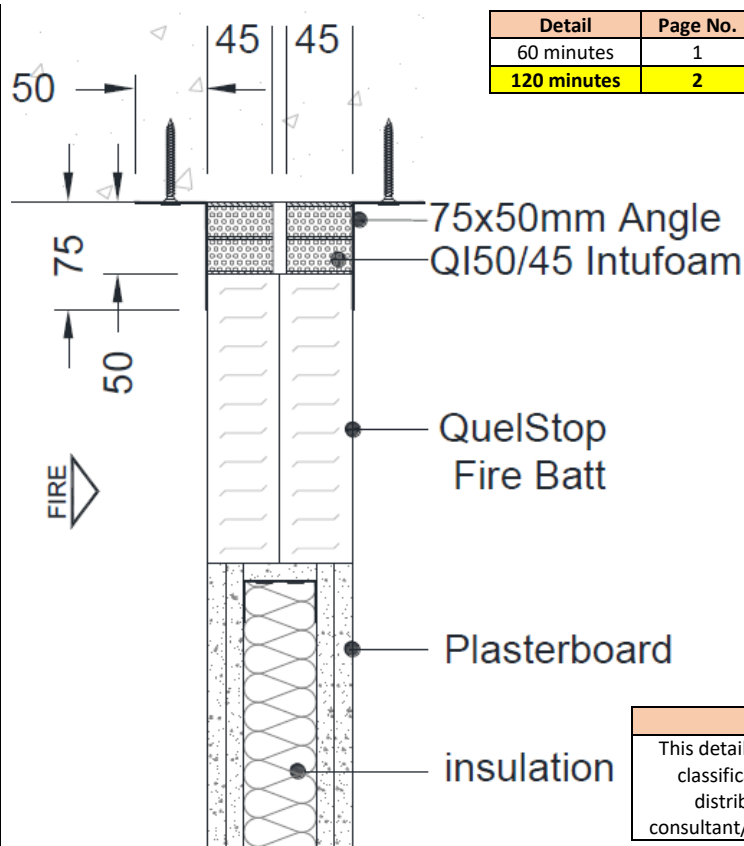
QI50/45 Intufoam is installed compressed and flush to the outer face above each QuelStop Fire Batt within a gap ≤50mm at the head of the batt fitted up against the rigid floor soffit. QI50/45 will compress down to 25mm. Installed into a 50mm gap, QI50/45 would therefore accommodate up to 25mm of compression/deflection at the head of the seal. The top of the lining of the letterbox must be in line with the QuelStop Fire Batt only leaving the aperture frame exposed, to allow the QI Intufoam to extend the full width of the letterbox (see image) and provide the required movement. QI50/45 Intufoam should also be bedded on QuelStop Intumescent Sealant by applying to the faces between the Intufoam and the Fire Batt and also the Intufoam to supporting construction/floor. [75mm deep x 50mm wide x 1mm thick galvanised Steel Angle](#) is fitted to both sides of the wall and fixed to the soffit using 60mm x 6mm diameter concrete screws at 600mm centres.

This detail can be used in conjunction with [Quelfire's QB-FW100-D service penetration](#) range.

However, when used in conjunction with the QB-FW100-D detail range, the maximum aperture size permitted would be limited to 1405mm wide x 655mm high and the overall fire rating would be limited to the lowest rating.

We advise a minimum of 100mm of QuelStop Fire Batt between the QI Intufoam and the fire stop seal around the service penetration.

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.

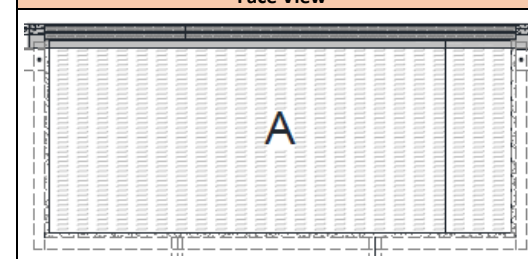


Detail	Page No.
60 minutes	1
120 minutes	2

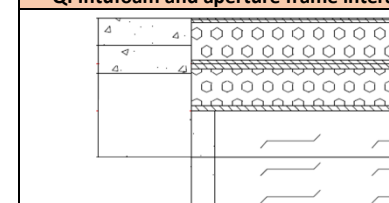
Quelfire Products Required

Product Code	Description
QB50D	QuelStop Fire Batt
QI50/45	QI Intufoam
QSS310	QuelStop Intumescent Acrylic Sealant
QSC5KG	QuelStop Ablative Coating 5kg tub

Face View



QI Intufoam and aperture frame interaction



*** Test Evidence

This detail will be included in a future update of the QuelStop Fire Batt classification report. The fire test report detailed is not for general distribution but can be requested by the projects qualified fire consultant/engineer if they contact the Quelfire Technical Team directly.

To be read in conjunction with:	WF Test Report 542145/R Specimen A***
Test standard:	BS EN1366-3
Substrate minimum thickness:	100mm
Maximum Aperture:	1405mm wide x 655mm high (Framed and Lined)
Drawing Scale:	Not to Scale
Issue Number:	8
Date of Issue:	July 2025
Detail Reference:	QB-FW100-D-HOW-03

Service Type

Fire Rating

Blank Seal up to 1405mm wide x 655mm high (framed and lined)	120 minutes Integrity 120 minutes Insulation
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Important Information:

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- All services should be adequately supported on both sides of the firestop to ensure that no load is transferred onto the firestop seal.

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