

## QF2-HC150-14

## Conduit with cables penetrating a hollow core floor (150mm 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

The floor must have a minimum thickness of 150mm with a minimum density of 2450kg/m<sup>3</sup>.

Minimum 25mm thick cut of mineral wool insulation is installed at a 25mm depth within the hollows as shown:

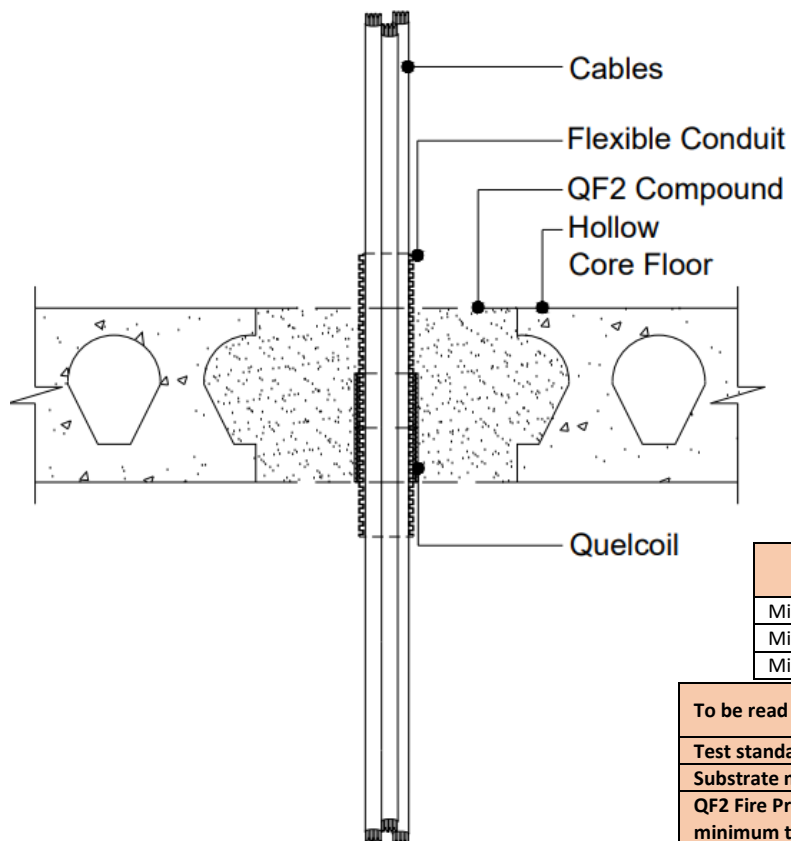


The void is then filled with QF2 Fire Protection Compound to the full depth of the floor flush with both faces of the hollow core slab.

For further information on the installation of QF2 Fire Protection use the [QF2 installation guidance document](#).

**Conduits can be empty or filled with cables. QuelStop Acrylic sealant installed in both ends of the conduit between the cables and conduit.**

**Multiple Service Penetrations:** the total number of services (pipes, cables, conduits, trunking etc.) may be increased without restriction, so long as the distances between the services and the aperture edge are not smaller than the minimum distances stated on the service penetration detail and the aperture does not exceed the maximum allowance permitted.



### Quelfire Products Required

| Product Code | Description                                  |
|--------------|----------------------------------------------|
| QF2          | <a href="#">QF2 Fire Protection Compound</a> |
| QUELCOIL     | <a href="#">QuelCoil Continuous Intuwrap</a> |
| MW/SLAB      | <a href="#">Quelfire MW Shuttering Slab</a>  |

### Multiple Service Penetration Spacing

Distances are from edge of fire stop seal

|                                                          |      |
|----------------------------------------------------------|------|
| Minimum distance from edge of opening                    | 0mm  |
| Minimum distance between Services within the table below | 0mm  |
| Minimum distance between other Service types             | 50mm |

|                                                                                                                                                 |                                                                                  |
|-------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| To be read in conjunction with:                                                                                                                 | <a href="#">UL Classification Report 4790096347 Issue 5</a><br>Pages 78, 79 & 96 |
| Test standard:                                                                                                                                  | BS EN1366-3 & EN13501-2                                                          |
| Substrate minimum thickness:                                                                                                                    | 150mm                                                                            |
| QF2 Fire Protection Compound minimum thickness:                                                                                                 | Full depth                                                                       |
| First service support:                                                                                                                          | ≤400mm                                                                           |
| Maximum aperture size:                                                                                                                          | 1600mm x 750mm **                                                                |
| ** Refer to page 78 of the QF2 Classification Report for a table of further aperture sizes where one side can be increased if one is decreased. |                                                                                  |
| Drawing Scale:                                                                                                                                  | Not to Scale                                                                     |
| Issue Number:                                                                                                                                   | 2                                                                                |
| Date of Issue:                                                                                                                                  | April 2024                                                                       |
| Detail Reference:                                                                                                                               | QF2-HC150-14                                                                     |

| Service Type               | Size of Conduit | Size of Services | Conduit wave height/ wall thickness | Conduit Protrusion | No. QuelCoil layers required                                                                               | Classification         |
|----------------------------|-----------------|------------------|-------------------------------------|--------------------|------------------------------------------------------------------------------------------------------------|------------------------|
| Pliable/ Flexible conduit* | ≤Ø50mm          | ≤Ø21mm           | ≤Ø5.0mm                             | ≥40mm              | 2 x 2mm thick layers installed around the conduit and positioned at the bottom and top of the QF2 Compound | E 240 C/C<br>EI 90 C/C |
| Rigid plastic conduit*     |                 |                  | ≤Ø2.4mm                             |                    |                                                                                                            |                        |

\*\* Plastic conduit of the polyolefin type (PE, PP, PE/PP or PO)

### 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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