

## QC-CF150-01

## Plastic Pipes penetrating a rigid 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.

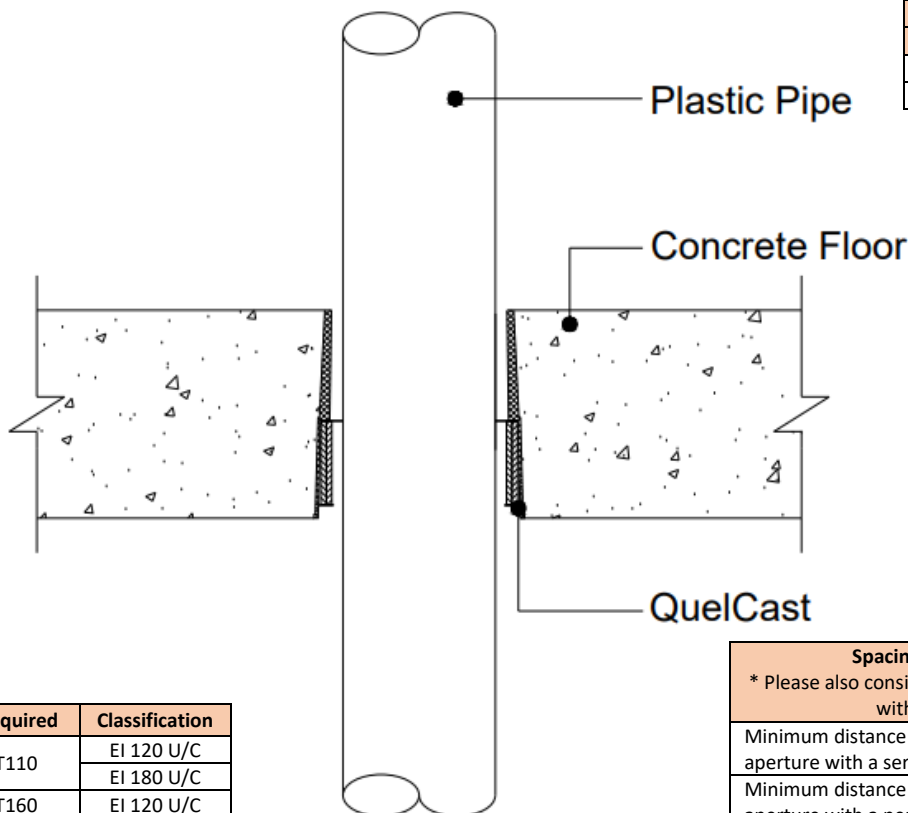
### Additional Instructions

The floor must have a minimum thickness of 150mm and comprise of concrete or aerated concrete, with a minimum density of 670kg/m<sup>3</sup>.

BS EN 1366-3:2021 Section 13.7: The distance between the aperture edges of penetration seals in a building element shall be as tested or minimum 100mm. The distance between the aperture edge of a penetration seal and any other penetration (e.g., door) in a building element shall be minimum 200mm.

The QuelCast110 has been tested with closer spacings refer to detail [QC-CF150-04](#) for further information.

The QuelCast110 and QuelCast160 have been tested with undersized plastic pipes refer to [QC-CF150-03](#) for further information.



### Quelfire Products Required

| Product Code | Description                         |
|--------------|-------------------------------------|
| QUELCAST110  | Cast In Fire Collar for 110mm pipes |
| QUELCAST160  | Cast In Fire Collar for 160mm pipes |

| Service Type                     | Size of Services | Pipe Wall Thickness | QuelCast Required | Classification          |
|----------------------------------|------------------|---------------------|-------------------|-------------------------|
| U-PVC Pipe                       | 110mm            | 4.2 - 6.6mm         | QUELCAST110       | EI 120 U/C              |
|                                  | 160mm            | 6.6mm               |                   | EI 180 U/C              |
| PE, PE-X, ABS, SAN-PVC**<br>Pipe | 110mm            | 6.2mm               | QUELCAST160       | EI 120 U/C              |
|                                  | 160mm            | 3.4 - 10.0mm        | QUELCAST110       | EI 240 U/C              |
| PP Pipe                          | 110mm            | 4.9 - 9.5mm         | QUELCAST160       | EI 120 U/C              |
|                                  | 160mm            | 9.5mm               |                   | E 240 U/C<br>EI 180 U/C |
|                                  | 110mm            | 2.7 - 10.0mm        | QUELCAST110       | EI 240 U/C              |
|                                  | 160mm            | 9.1mm               | QUELCAST160       |                         |

\*\*PE in accordance with EN1519-1, EN1266-1, EN 12201-2 and EN ISO 15494, PE-X in accordance with EN ISO 15875-2, ABS in accordance with EN 1455-1 and EN ISO 15493 as well as SAN+PVC in accordance with ISO 19220

### Spacing as per BS EN 1366-3: 2021, Section 13.7

\* Please also consider any requirements that the floor manufacturer has with regards to spacing between openings.

|                                                                                                                |        |
|----------------------------------------------------------------------------------------------------------------|--------|
| Minimum distance from edge of opening to another aperture with a service penetration tested to BS EN 1366-3    | 100mm* |
| Minimum distance from edge of opening to another aperture with a penetration <u>not</u> tested to BS EN 1366-3 | 200mm* |

|                                 |                              |
|---------------------------------|------------------------------|
| To be read in conjunction with: | ETA 20/1203 pages 7 - 11     |
| Test standard:                  | BS EN1366-3 & EN13501-2:2016 |
| Substrate minimum thickness:    | 150mm                        |
| First service support:          | ≤400mm                       |
| Drawing Scale:                  | Not to Scale                 |
| Issue Number:                   | 3                            |
| Date of Issue:                  | January 2023                 |
| Detail Reference:               | QC-CF150-01                  |

### 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 either side of the firestop to ensure that no load is transferred onto the firestop seal.

### Scope and Liability:

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