

This installation guide is intended for general information only and all details should be checked against relevant supporting test evidence and certification.



Quelfire QWW CE Marked Intuwraps are lifesaving products designed to prevent the spread of fire where plastic pipes penetrate fire compartment floors. It is therefore essential that they are fitted in a responsible and workmanlike manner.

The QWW Intuwrap is only suitable for use in concrete floors and generally installed in conjunction with Quelfire QF2 Fire Protection Compound so this document should be read in conjunction with all other available relevant information and tested scope of application available from the Quelfire Technical Team.

Installation principles of the QWW CE Marked Intuwrap

A lot of extra work and associated cost can be avoided by early engagement, coordination and good communication between all trades. For example where the correct diameter hole is diamond drilled as per the table given below, no shuttering will be required and installation is very simple requiring a simple backfill on top of the QWW as described in the section headed "Installation of the QWW Intuwrap to a plastic pipe in a correctly diamond drilled hole."

Product Code	Pipe Size mm	Recommended hole diameter (mm)
QWW32/CE	32Ø	42Ø
QWW40/CE	40Ø	50Ø
QWW50/CE	50Ø	60Ø
QWW55/CE	55Ø	74Ø
QWW63/CE	63Ø	82Ø
QWW75/CE	75Ø	94Ø
QWW82/CE	82Ø	102Ø
QWW90/CE	90Ø	110Ø
QWW110/CE	110Ø	132Ø
QWW125/CE	125Ø	155Ø
QWW160/CE	160Ø	204Ø

Where holes are incorrectly drilled oversize or larger square holes are left or formed then refer to the latter section of this document headed "Installation of the QWW Intuwrap to a plastic pipe in an oversized hole."

QWW Intuwraps are manufactured specifically to suit individual pipe diameters so select the correct product by determining the outside diameter of the pipe. A QWW110/CE suits a 110mm outside diameter plastic pipe and a QWW50/CE suits a 50mm outside diameter plastic pipe for example.

The orange plastic sleeve is an integral part of the QWW Intuwrap so should not be removed.

Installation of the QWW Intuwrap to a plastic pipe in a correctly diamond drilled hole

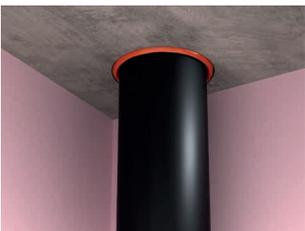
Quelfire Products used:

- 🔧 QWW Intuwrap
- 🔧 QF2 Fire Protection Compound

1. Select the correct product to suit the pipe diameter.
2. Check the sides of the pipe and hole are relatively clean of debris and there are no obstructions such as concrete splashes.
3. Remove and discard the backing paper from the end of the self-adhesive tab on the QWW.



4. Wrap the QWW tight around the pipe and secure the ends together using the self-adhesive tab.
5. Slide the QWW Intuwrap into the correct position. The bottom edge of the QWW Intuwrap should be flush with the bottom edge of the concrete slab with a minimum of 40mm of cover between the top of the QWW Intuwrap and the top of the concrete slab.



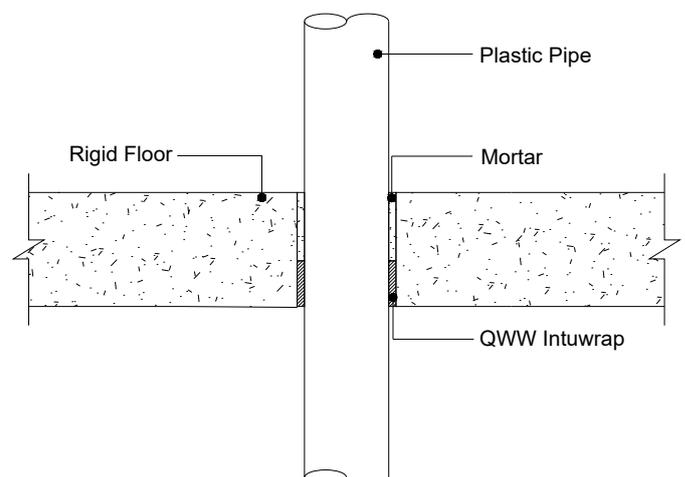
A common misunderstanding is that the wrap protrudes from the underside of the slab but this is **not** a Quelfire tested detail and cannot be rectified if installed in this way. The QWW must be flush with the underside of the slab.

There should be no gap between the QWW Intuwrap and the concrete slab. If there is a gap then refer to the latter section covering oversized holes and the requirement for QF2 Fire Protection Compound.

6. Double check the QWW Intuwrap is positioned correctly to facilitate the correct depth of required backfill, usually 40mm, as set out in the installation details and tested scope of application.
(Note that steel profiled decks are an exception requiring 15mm of QF2 Fire Protection Compound and a reduced fire rating as per the Quelfire assessment.)

7. Because the hole has been drilled the correct size there should be no requirement to shutter the hole underneath but the remaining space on top of the QWW Intuwrap should now be backfilled.

Quelfire recommend the use of QF2 Fire Protection Compound – refer to relevant supporting documentation on the mixing and installation of QF2 Fire Protection Compound.



Installation of the QWW Intuwrap to a plastic pipe in an oversized hole

Quelfire Products used:

-  QWW Intuwrap
-  QF2 Fire Protection Compound
-  MW Shuttering Slab

- 1.** Select the correct product to suit the pipe diameter.
- 2.** Check the sides of the pipe and hole are relatively clean and dust free.
- 3.** Remove and discard the backing paper from the end of the self-adhesive tab on the QWW.



- 4.** Wrap the QWW tight around the pipe and secure the ends together using the self-adhesive tab.
- 5.** Cut slightly oversized and friction fit the Quelfire MW Shuttering Slab into the opening around the services within the aperture ensuring a tight fit and that the correct minimum depth of the QF2 Fire Protection Compound (usually 100mm) can be achieved. Consider temporary support if required.
- 6.** Slide the QWW Intuwrap into the correct position. The bottom edge of the QWW Intuwrap should be sitting flush on the shuttering.



A common misunderstanding is that the wrap protrudes from the underside of the slab/fire protection compound but this is **not** a Quelfire tested detail and cannot be rectified if installed in this way. The QWW must be flush with the underside of the seal.

- 7.** Mix the QF2 Fire Protection Compound with clean water in a plastic container or bucket by slowly adding the dry powder to the water whilst stirring by hand or power mixer to ensure a smooth lump-free mix. Refer to relevant supporting documentation on the mixing and installation of QF2 Fire Protection Compound.

- 8.** Pour the QF2 Fire Protection Compound into the opening around the services to the required thickness – minimum 100mm.



- 9.** Use a trowel to ensure the aperture is full and remove any excess QF2 Fire Protection Compound from around the opening.

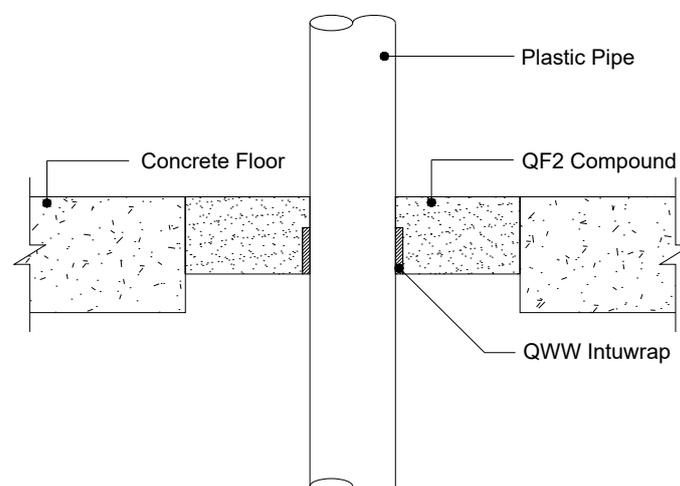
- 10.** Use a trowel to level the surface of the QF2 Fire Protection Compound and ensure a neat finish.



- 11.** Any spillages should be wiped up with a damp cloth before setting occurs.

- 12.** Allow 28 days for the QF2 Fire Protection Compound to fully 'cure'

- 13.** The MW Shuttering Slab can then be removed or alternatively may remain in place but we recommend cutting back the shutter so that the QWW is visible from the underside and exposed to fire. Any combustible shuttering such as plywood must be removed.



Packaging & Storage:

Quelfire QWW Intuwaps are supplied individually to suit specific pipe diameters of plastic pipe and may be packaged in cardboard boxes for shipping purposes and should be stored in a cool, dry location.

The orange plastic sleeve containing the intumescent with the labels on is an integral part of the product and should not be removed.

Health & Safety:

QWW CE Marked Intuwaps consist of a plastic sleeve containing graphite in a synthetic compound with the addition of filters and process oils.

For further information, please refer to the Material Safety Data Sheets, available on request or via the website.

Technical Support & Guidance:

Should you require any further information regarding this product, please do not hesitate to contact the technical department at Quelfire Ltd.

Tel: **0161 928 7308**. Email: technical@quelfire.co.uk

Please be aware that this document is intended for general information only and all details should be checked against all relevant supporting test evidence, certification and installation guidelines. Use of alternative components or deviations from the instructions in any way is likely to mean that the installation will not comply with the assessed rating.

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