

QUELCOIL CE MARKED INTUWRAP INSTALLATION INSTRUCTIONS

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



QuelCoil Intuwrap is a lifesaving product designed to prevent the spread of fire where combustible pipes or insulation penetrate fire compartment walls and floors. It is therefore essential that it is fitted in a responsible and workmanlike manner.

The QuelCoil Intuwrap is a very universal product that is supplied as a 25 metre long roll of 50mm x 2mm wrap that is cut to length on site to suit the specific pipe diameter and material and can be used around combustible insulations around non-combustible pipes such as copper or steel and can also be used directly to combustible plastic pipes.

QuelCoil Intuwrap can be installed directly into both solid masonry walls and fire rated plasterboard partition walls (where the specification of the wall and insulation is appropriate) and there must be no gap around the outside of the QuelCoil Intuwrap once installed so it is important to drill holes for services accurately taking into consideration the number of layers of QuelCoil required.

For oversized holes in walls it will be necessary to install the QuelCoil in conjunction with the QuelStop Fire Batt system and for oversized hole in floors it will be necessary to installation 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.

The number of layers of QuelCoil Intuwrap required is as follows:

Plastic Pipe Diameter	Number of QuelCoil Intuwrap layers required
≤ 50mm	1 layer 50mm x 2mm
51 - 75mm	2 layers 50mm x 2mm
76 - 110mm	3 layers 50mm x 2mm
111 - 160mm	6 layers 50mm x 2mm
Up to 50mm thick insulation with up to 159mm diameter metallic pipes	2 layers 50mm x 2mm

Please bear in mind that a double seal may be required, for instance one in each side of the wall – refer to the specific installation details before commencing work.

Installation principles of the QuelCoil Intuwrap

Ensure the services are free from dust and debris.

Determine the correct number of layers of QuelCoil Intuwrap that is required by measuring the outside diameter of the services and checking all data.

Wrap the QuelCoil tightly around the services until the correct number of layers has been achieved and cut with a sharp knife.

Using the self-adhesive tape supplied in the box with the wrap, secure the QuelCoil Intuwrap around the services.

Slide the QuelCoil Intuwrap into final position ensuring that it is fitted flush with the underside of the concrete slab or fire seal and/or flush with the face of the wall or QuelStop Fire Batt.

The QuelCoil Intuwrap can be installed in a number of different scenarios and the following pages set out the following installation methods:

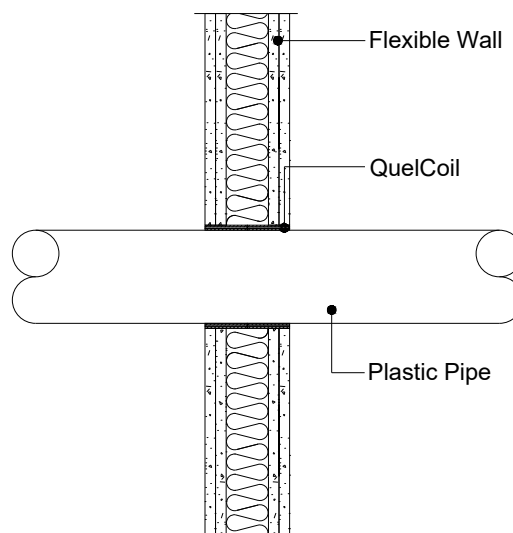
- 🔧 Installation of the QuelCoil Intuwrap within a correctly drilled hole in a wall.
- 🔧 Installation of the QuelCoil Intuwrap with QF2 Fire Protection Compound seal - oversized floor hole.
- 🔧 Installation of the QuelCoil Intuwrap in conjunction with QuelStop Fire Batt seal - oversized wall hole.

Installation of the QuelCoil Intuwrap within a correctly drilled hole in a wall

Quelfire Products used:




- 🔧 QuelCoil Intuwrap

- 1.** Check the sides of the pipe and hole are relatively clean and dust free.
- 2.** Wrap the correct number of layers of QuelCoil Intuwrap around the pipe, cut to length and secure with the self-adhesive tape supplied.
- 3.** Slide the QuelCoil Intuwrap along the pipe into the correct position so the edge of the QuelCoil Intuwrap is flush with the outer face of the wall.
- 4.** Repeat steps 1-3 in the other side of the wall.



Installation of the QuelCoil Intuwrap with QF2 Fire Protection Compound seal - oversized floor hole

Quelfire Products used:

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

- 1.** Check the sides of the pipe and hole are relatively clean and dust free.
- 2.** Wrap the correct number of layers of QuelCoil Intuwrap around the pipe, cut to length and secure with the self-adhesive tape supplied.
- 3.** Some details may require an additional wrap on top of the first one, check the installation details.
- 4.** 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.
- 5.** Slide the QuelCoil Intuwrap down the pipe into the correct position so the bottom edge of the Intuwrap is 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 Intuwrap must be flush with the underside of the compound seal.

- 6.** 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 the recommend mix table in the QF2 documentation for the recommended dry powder to water ratio.
- 7.** Pour the QF2 Fire Protection Compound into the opening around the services to the required thickness – minimum 100mm.

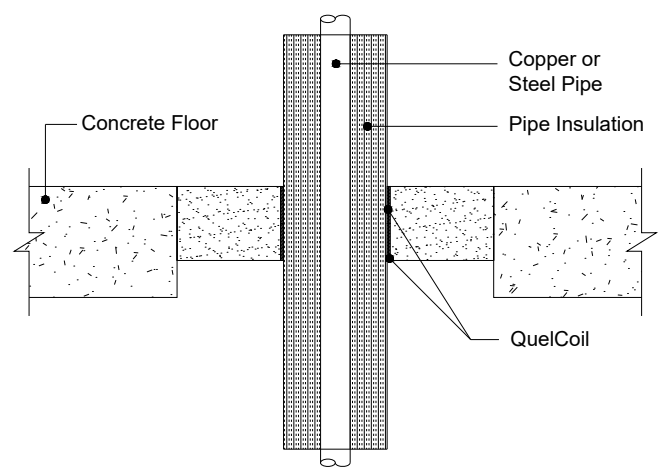
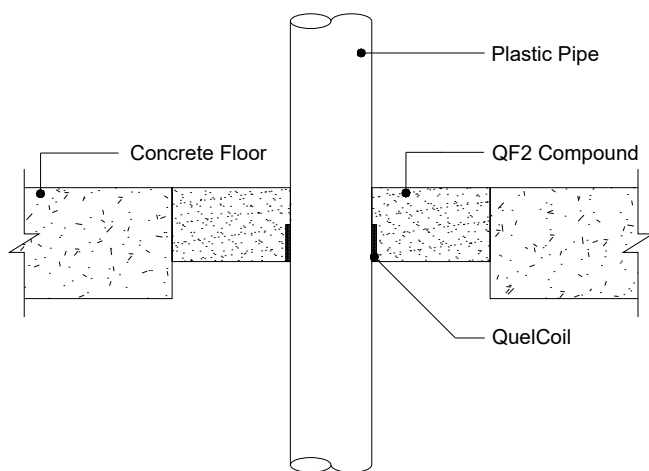


- 8.** Use a trowel to ensure the aperture is full and remove any excess QF2 Fire Protection Compound from around the opening.
- 9.** Use a trowel to level the surface of the QF2 Fire Protection Compound and ensure a neat finish.






QUELCOIL CE MARKED INTUWRAP INSTALLATION INSTRUCTIONS

- 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 QuelCoil is visible from the underside and exposed to fire. Any combustible shuttering such as plywood must be removed.

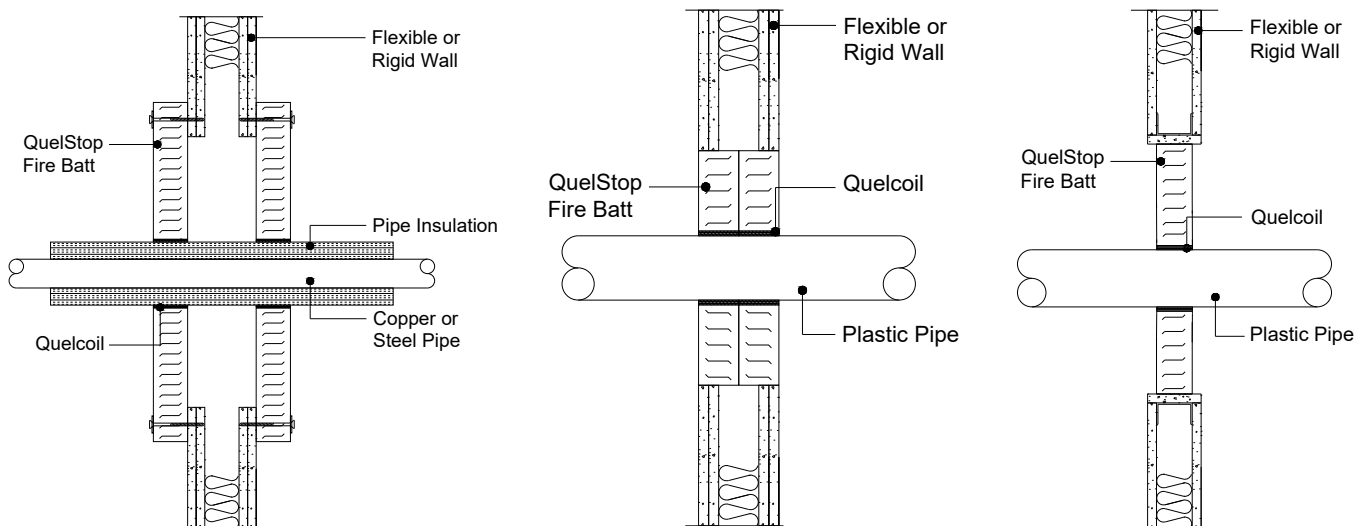


Installation of the QuelCoil Intuwrap in conjunction with QuelStop Fire Batt seal - oversized wall hole

Quelfire Products used:

-  QuelCoil Intuwrap
-  QuelStop Fire Batt
-  QuelStop Intumescent Acrylic Sealant

Please bear in mind that a double seal may be required, for instance one in each side of the wall – refer to the specific installation details before commencing work.



- 1.** Check the sides of the pipe or insulation are relatively clean and dust free.
- 2.** Wrap the correct number of layers of QuelCoil Intuwrap around the pipe/insulation, cut to length and secure with the self-adhesive tape supplied.
- 3.** Make sure that the surfaces of the wall/letterbox that the QuelStop Batt is being installed to are clean and dust free.
- 4.** Apply QuelStop Intumescent Acrylic Sealant to the QuelCoil and butter up with a spatula.
- 5.** Ensure that the QuelCoil Intuwrap is in the correct location and adjust as necessary by sliding along the pipe/insulation so that when the Batt is installed the face of the QuelCoil is flush with the Batt.
- 6.** Install the QuelStop Fire Batt and QuelStop Intumescent Acrylic Sealant around the QuelCoil in accordance with all other supporting documentation.
- 7.** Apply QuelStop Intumescent Acoustic Acrylic Sealant or QuelStop Ablative Coating to any damaged coating on the QuelStop Fire Batt.

Please note that the QuelCoil Intuwrap should be flush with the face of the QuelStop Batt and should be visible for inspection but not protruding. A smear of sealant on the face of the QuelCoil is probably inevitable during installation and does not affect performance, but a bead of sealant over the face is not required.

- 8.** Where a double batt or pattress batt seal is required, repeat steps 1-7 on the other side of the wall.

QUELCOIL CE MARKED INTUWRAP INSTALLATION INSTRUCTIONS

Packaging & Storage:

QuelCoil Intuwrap is supplied packaged in a cardboard box and should be stored in a cool, dry location.

Health & Safety:

QuelCoil Intuwrap consists of a roll of self-adhesive tape and a roll of intumescent wrap shell 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

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