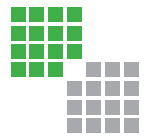




QuelCast Cast in Fire Collar

Quelfire
PROTECTING PEOPLE & PROPERTY

MIERS
Construction Products Ltd



QuelCast Cast In Fire Collars prevent the spread of fire through plastic pipes and cables where they penetrate concrete floors



- Up to 4 hour fire rating (EI240)
- Suitable for PVC, PVC-U, PE, HDPE, MDPE, & PP pipes
- Available to suit 50mm, 110mm & 160mm pipes
- Performance unaffected by weathering (Type X Durability)
- Quick & simple installation
- Integrated moisture and smoke seal
- Strong lid to carry foot traffic and light access equipment
- No backfilling required
- Compact footprint allows for closer positioning of pipes

Regulations

Building Regulations impose limitations on all pipes and cables passing through fire compartment floors. QuelCast Cast In Fire Collars allow plastic pipes and cables to meet the requirements of the Building Regulations. QuelCast Cast In Fire Collars have been tested according to BSEN 1366-3: 2009 where pipe diameters of up to 160mm have met insulation and integrity criteria for this standard for up to four hours.

Standards and Approvals

- Fire resistance testing to BS EN 1366-3:2009
- EI60, EI120, EI180, EI240
- Classified to EN 13501-2: 2007 + A1: 2009



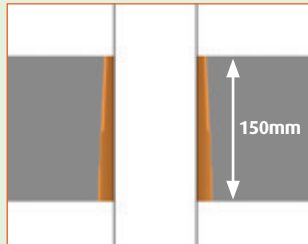
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Description

QuelCast Fire Collars are constructed from a robust polypropylene material and contain a high performance intumescent material which reacts under the influence of heat. This will exert pressure on the pipe as it softens, to form a carbonaceous char which provides an effective insulation plug thus preventing smoke and fire passing through to the adjoining compartment.

Applications

The QuelCast Cast In Fire Collar has been designed at 250mm high to meet the requirements of most applications, however the QuelCast Collar can be cut down to suit up to a 150mm deep floor slab. For applications where the floor slab is deeper than 250mm, speak to Miers for your options.



Cross-section of QuelCast Cast In Fire Collar Cut to Suit a 150mm Floor Slab

For the QuelCast50 Cast In Fire Collar, the space between the pipe and the outer casing of the QuelCast50 should be 'backfilled' with mineral wool from the rubber smoke seal to the top of the floor slab.

For applications where the floor slab depth is between 150 – 250mm, cut the QuelCast Cast In Fire Collar down to the required height and replace the cap.

Installation Instructions

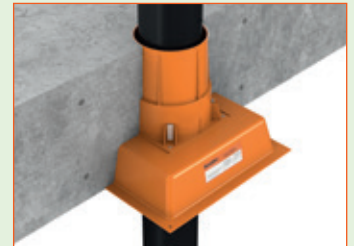
1. Mark the formwork with a cross where the pipe is to pass through the floor
2. Position the QuelCast Cast In Fire Collar as required (the centre line marks on the QuelCast Collars and Manifold help to position in the correct location)
3. Attach to the formwork using screws or nails through the holes in the 4 corners of the unit
4. Pour the concrete to the required depth
5. On completion of concrete curing, remove all formwork and shuttering
6. Remove the cap from the top of the QuelCast Collar
7. Place the pipe through the QuelCast Collar

QuelCast Manifold

QuelCast Manifold has been designed and developed to create a 75mm recess in the floor slab either on the top or on the bottom of the floor slab to allow for applications such as shower traps, soil pipe manifolds, pipe connections and limited ceiling space.

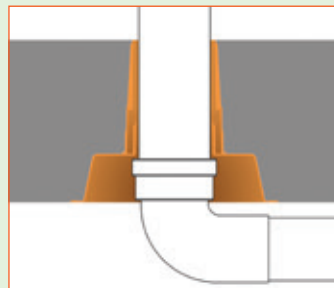


QuelCast Cast In Fire Collar with a Manifold on the Top

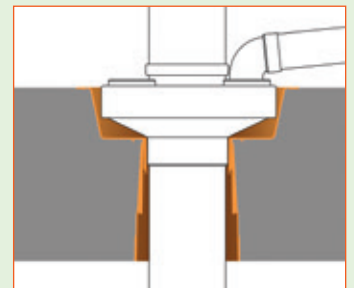


QuelCast Cast In Fire Collar installed with a Manifold on the Bottom

Where there is limited ceiling space and so the plastic pipe can be installed closer to the ceiling with the pipe connection recessed in the slab.



Cross-section of QuelCast Cast In Fire Collar installed with a Manifold on the Bottom



Cross-section of QuelCast Cast In Fire Collar installed with a Manifold on the Top

When installing on the underside of the floor slab, ensure that you cut off the spigot on the manifold and then, using self-tapping steel screws, secure the Fire Collar to the manifold.

When installing the manifold on the top side of the floor slab, the manifold spigot is simply slotted into the top of the QuelCast110 Cast in Fire Collar.

Performance

Product Code and Description	To suit pipe diameter	Quantity per box	Fire Rating
QUELCAST50 - Cast In Fire Collar	50mm	8	Up to 4hrs
QUELCAST110 - Cast In Fire Collar	110mm	8	Up to 4hrs
QUELCAST160 - Cast In Fire Collar	160mm	4	Up to 4hrs
QUELCAST-MANIFOLD - Recess Former	QUELCAST110	4	n/a



Construction Products Ltd

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