

QuelCast CE Marked Cast In Fire Collar ADDITIONAL INSTALLATION GUIDE for Hollow Core Concrete Slabs



Summary:

The QuelCast Cast In Fire Collar may be used in conjunction with a hollow core concrete floor slab if:

- ❏ The concrete slabs are capable of achieving the required fire rating.
- ❏ The depth of the concrete slab is a minimum of 150mm.
- ❏ Openings within the hollow core slab are designed/approved by the precast hollow core slab company as penetrations may affect the structural resistance of the slab. (Quelfire cannot comment on the performance of the slabs, only the QuelCast.)
- ❏ The penetration is large enough to be able to practically install a backfill.
- ❏ The sides of the penetration are free of contaminant to allow adhesion of the backfill.
- ❏ The hollow cores can be plugged as detailed below to allow the backfill.
- ❏ The services and installation of the QuelCast are otherwise within specification of that tested and as detailed in relevant ETA's, installation details and documentation.

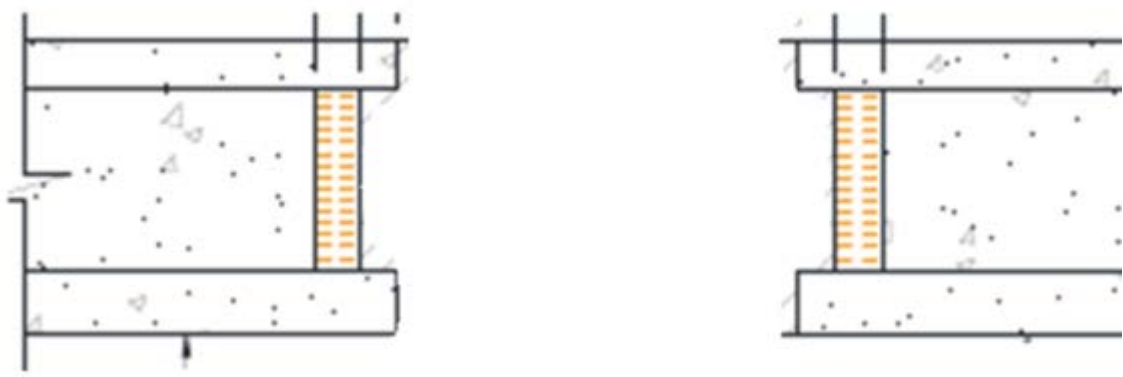


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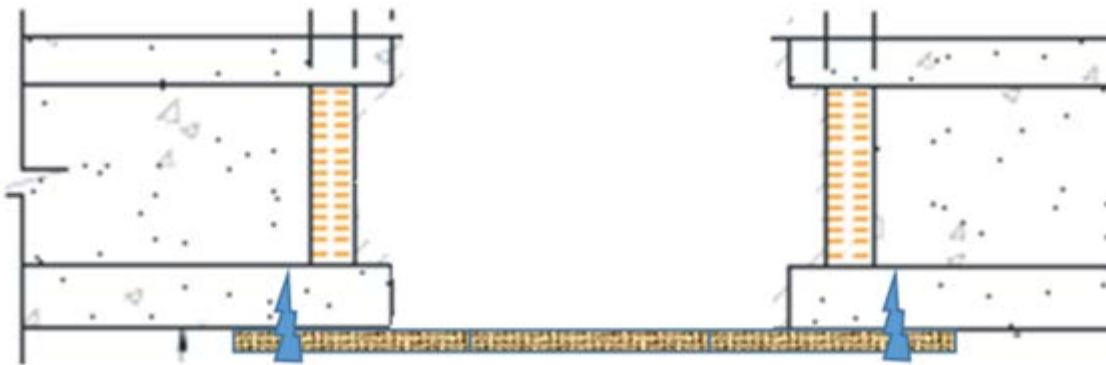
QuelCast Installation Instructions

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

1. Infill the exposed hollow cores within the penetration either by packing in concrete, Quelfire MW Shuttering Slab or QuelStop Fire Batt, this must be installed at least flush with the edge of the penetration or ideally set back 25mm to provide an edge for the backfill to key to.



2. Fit a shutter (plywood or similar) to the underside of the floor slab – as always observe manufacturer recommendations for fixings etc. The shutter is temporary to allow the backfill around the QuelCast.



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- 3.** Mark the shuttering formwork with a cross where the pipe is to pass through the floor.



- 4.** Select the correct QuelCast to suit the required pipe diameter

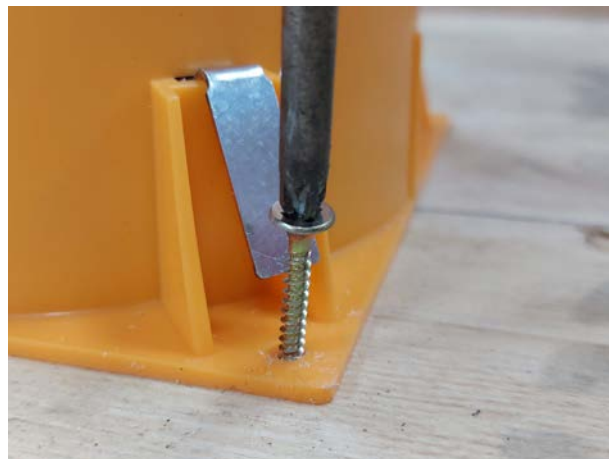


- 5.** Position the QuelCast Cast In Fire Collar over the cross using the centre line marker points to align the unit.

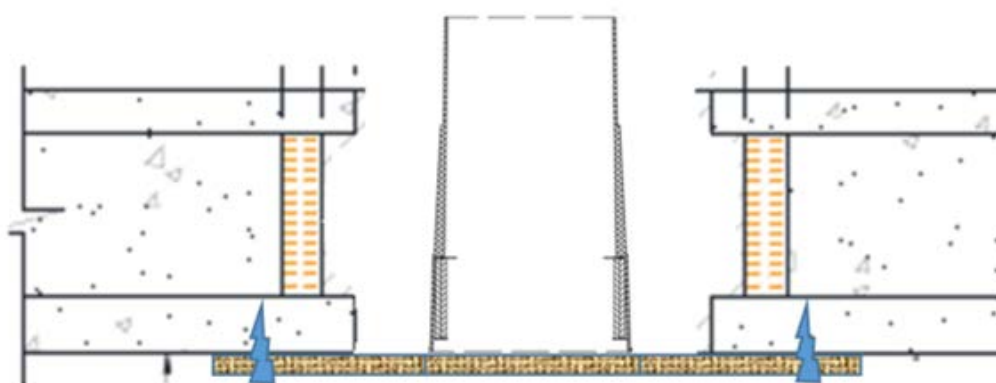


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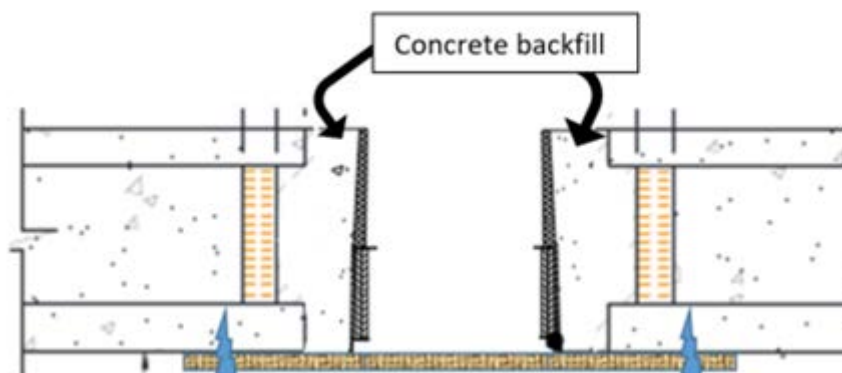
- 6.** Fix the QuelCast to the formwork using suitable nails/screws through the preformed holes in the 4 corners.



- 7.** Where the slab depth is between 250 and 150mm the QuelCast can be cut down if required otherwise it can be left protruding as shown.



- 8.** Pour concrete into the void around the QuelCast ensuring that it is properly poured, compacted and with no voids present.



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- 9.** Once cured, remove the shuttering formwork – note that the corners of the QuelCast may break off depending on the fixings used – this does not affect the performance of the product and is in fact to facilitate easy removal of the shuttering formwork.



- 10.** When the pipework is ready to be installed, remove the robust cap which is designed to provide a safe working surface until removed.

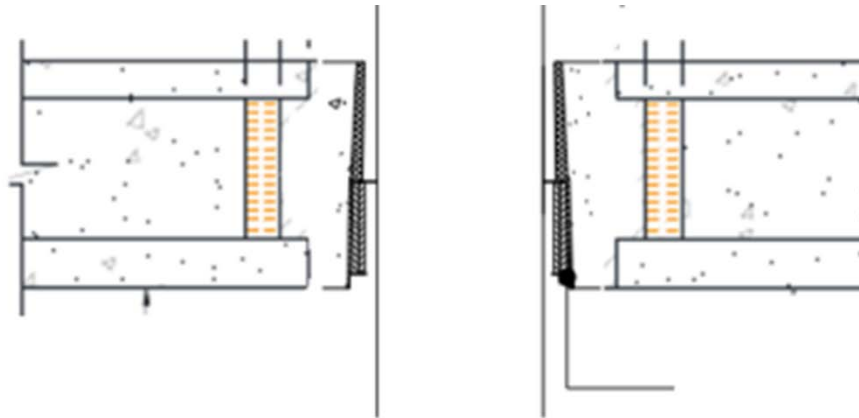


- 11.** Insert pipe taking care not to damage or dislodge the rubber smoke seal located inside the QuelCast.



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- 12.** Job done! No extra work, backfill or sealant is required where the correct diameter pipe is used in the correct QuelCast. For QuelCast50 and where smaller diameter pipes are used inside larger collars then refer to the latter section of this document.



For further detail on QuelCast installation including the use of the QuelCast manifold, cables, cutting down to suit 150 to 249mm deep slabs and QuelCast extension tubes refer to the standard QuelCast installation guide and supporting documentation.

-  [Webpage](#)
-  [Product Data Sheet](#)
-  [Dimensions and Installation Guide for standard RC slabs \(this document\)](#)
-  [Standard Installation Details](#)



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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