

QF2-HC150-01

Cable penetrating a hollow core 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.

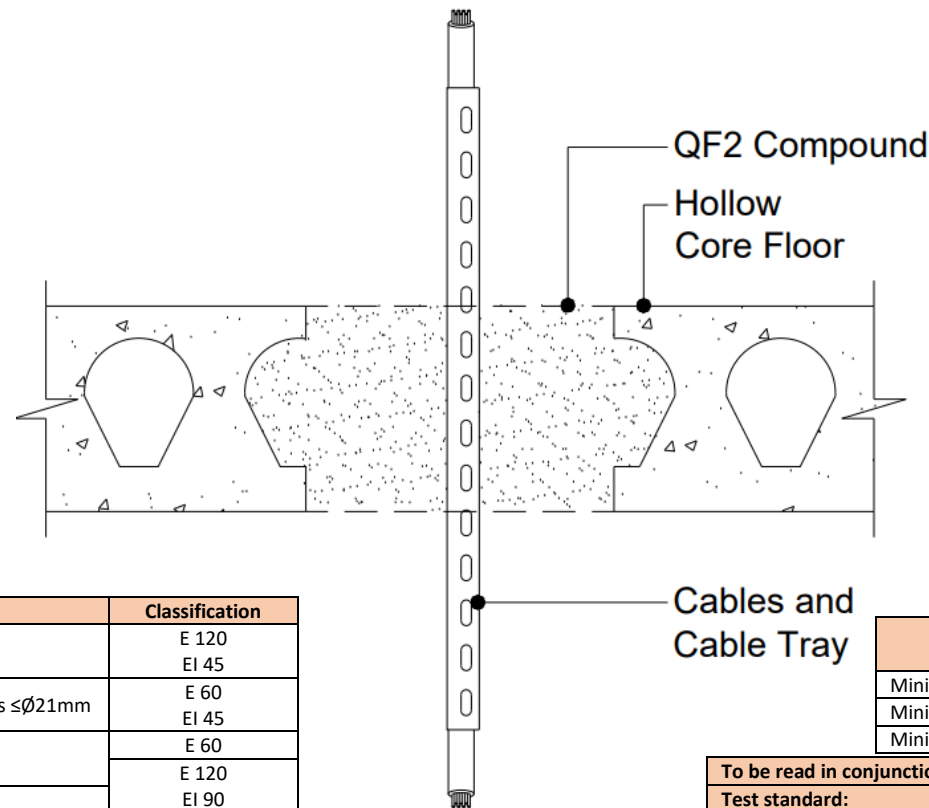
Additional Instructions

The floor must have a minimum thickness of 150mm with a minimum density of 2450kg/m³.

Minimum 25mm thick cut of mineral wool insulation should be used to seal off the ends of the hollows within the aperture.

The void is then filled with QF2 Fire Protection Compound to the full depth of the floor flush with both faces of the hollow core slab.

Multiple Service Penetrations: The total amount of cross section area of the services (including insulation) should not exceed 60% of the service penetration area.



Quelfire Products Required

Product Code	Description
QF2	QF2 Fire Protection Compound
MW/SLAB	Quelfire MW Shuttering Slab

Cable Detail	Page No.
No Insulation	1
QF2 upstand	2

Service Type	Size of Services	Classification
Cable	≤Ø80mm	E 120 EI 45
Cable Bundle	≤Ø100mm Bundle of cables ≤Ø21mm	E 60 EI 45
Non-Perforated Cable Tray*	≤Ø500mm wide	E 60
Perforated Cable Tray*		E 120
Cable Ladder*	≤Ø350mm wide	EI 90
Unsheathed Cable	≤Ø17mm	EI 60
	Ø18 - 24mm	E 60 EI 45
Steel or Copper Conduit	≤Ø16mm	E 60 EI 15
		E 60 EI 45

* If cables are fitted to the relevant cable carrier, then the lowest performing classification from the individual components defines the overall classification for the combined seal.

Multiple Service Penetration Spacing	
Distances are from edge of fire stop seal	
Minimum distance from edge of opening	0mm
Minimum distance between Services within the table below	0mm
Minimum distance between other Service types	50mm

To be read in conjunction with:	UL Classification Report 4790096347 Issue 4, Page 52
Test standard:	BS EN1366-3 & EN13501-2:2016
Substrate minimum thickness:	150mm
QF2 Fire Protection Compound minimum thickness:	Full depth
First service support:	≤400mm
Maximum aperture size:	Ø240mm
Drawing Scale:	Not to Scale
Issue Number:	1
Date of Issue:	June 2023
Detail Reference:	QF2-HC150-01

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 on both sides of the firestop to ensure that no load is transferred onto the firestop seal.

Scope and Liability:

- Any Information provided by or on behalf of Quelfire Limited is provided for general information only. It is not intended to amount to advice on which you should rely. You must obtain professional or specialist advice before taking, or refraining from, any recommendation or action.
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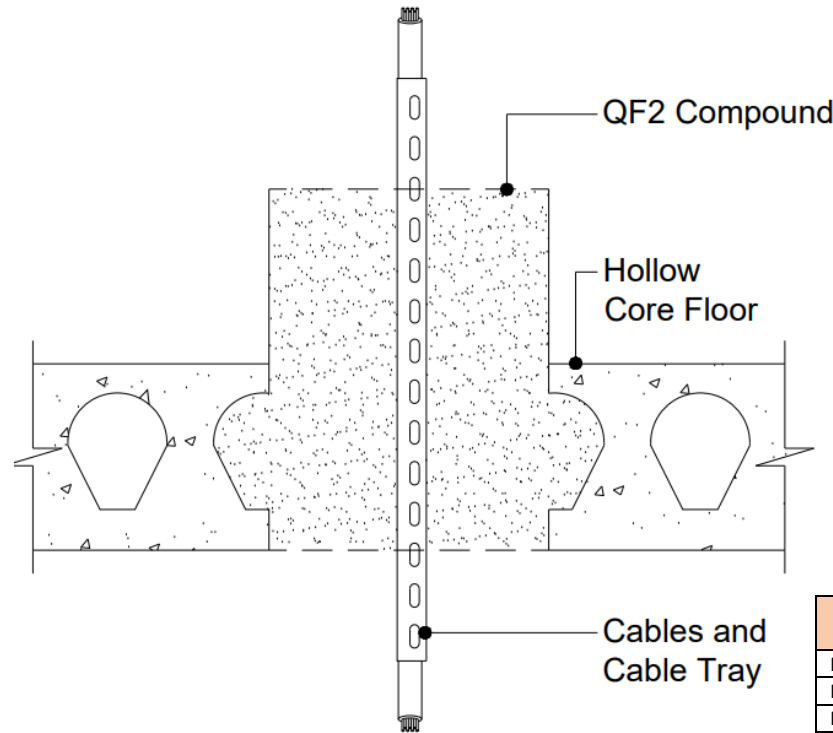
Additional Instructions

The floor must have a minimum thickness of 150mm with a minimum density of 2450kg/m³.

Minimum 25mm thick cut of mineral wool insulation should be used to seal off the ends of the hollows within the aperture.

The void is then filled with QF2 Fire Protection Compound to the full depth of the floor plus 150mm flush with the underside of the hollow core slab ensuring a minimum depth of 300mm overall

Multiple Service Penetrations: The total amount of cross section area of the services (including insulation) should not exceed 60% of the service penetration area.



Quelfire Products Required	
Product Code	Description
QF2	QF2 Fire Protection Compound
MW/SLAB	Quelfire MW Shuttering Slab

Cable Detail	Page No.
No Insulation	1
QF2 upstand	2

Multiple Service Penetration Spacing	
Distances are from edge of fire stop seal	
Minimum distance from edge of opening	0mm
Minimum distance between Services within the table below	0mm
Minimum distance between other Service types	50mm

Service Type	Size of Services	Classification
Cable	≤Ø21mm	EI 120
	Ø22 – 80mm	EI 120
Cable Bundle	≤Ø100mm Bundle of cables ≤Ø21mm	EI 120
Perforated Cable Tray/ Cable Basket*	≤150mm	EI 120
Non-perforated Cable Tray/ Cable Basket*		EI 120
Cable Ladder*		EI 120
Unsheathed Cable	≤Ø24mm	EI 120

* If cables are fitted to the relevant cable carrier, then the lowest performing classification from the individual components defines the overall classification for the combined seal.

To be read in conjunction with:	UL Classification Report 4790096347 issue 4, Page 53
Test standard:	BS EN1366-3 & EN13501-2:2016
Substrate minimum thickness:	150mm
QF2 Fire Protection Compound minimum thickness:	Full depth + 150mm Protrusion on upper side of the slab
First service support:	≤400mm
Maximum aperture size:	Ø240mm
Drawing Scale:	Not to Scale
Issue Number:	1
Date of Issue:	June 2023
Detail Reference:	QF2-HC150-01

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.
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