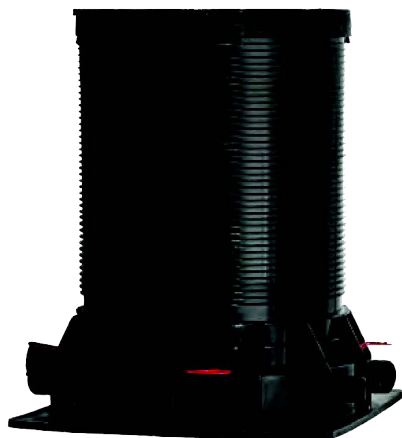


# Cast-in Device FCID Plus

Fast and efficient solution for forming service penetrations through concrete floors



FCID Plus within reinforced concrete floor



Installed pipe through FCID Plus

## Applications

- Sealing and firestopping combustible and metal pipes up to 6" (150mm).
- Forms holes up to 8" (200mm) thick concrete floors. Can be used in thicker floor slabs by addition of 4" (100mm) extension tubes.
- FCID Plus creates recesses in slabs for power positioning of soil.
- Sealing and firestopping insulated pipes, cable bundles and multiple pipes.
- Fire rating applicable even without any through penetrants if placed wrong or penetrant's location is changed.

## Advantage

- Quick installation
- Watertight seal
- Higher tolerance
- Easily extendable
- Wider base for further connections
- No further collars or wraps required
- Reduce working at heights
- Cost saving
- Reduced foot plate
- Closer proximity positioning
- Free of asbestos, solvents and any hazardous ingredients.

## Function

- FCID Plus is a pass through system, which is constructed from a highly resilient polypropylene material and contains a powerful intumescent graphite band.
- The FCID Plus is rugged enough to withstand the force and load of a concrete pour, yet lightweight enough to permit easy placement and handling.

## Certificates

EN 1366-3 : 2021

Fire resistance tests for service installations penetration seals.

ASTM E 814 (UL 1479).

## Building Materials

- Reinforced cast concrete slabs
- Some prefabricated slab systems (subject to design).

## Resistance table

Penetrant	FCiD Plus size	Diameter of penetrant (mm)	Max Fire Resistance (min.)	
			Integrity	Insulation
Blank	-	-	180	180
PVC-U	150	160	240	240
PVC-U	100	110	240	240
PVC-U	75	75	120	120
PVC-U	75	63	120	120
PVC-U	50	50	180	180
Metal pipe	50, 75, 100, 150	50, 75, 100, 150, Steel Schedule 5, Copper Type L and Regular	180	180
PVC, PVC-XFR, (RNC)+	50, 75, 100	60, 90, 114	180	180
PVC, PVC-XFR, (RNC)+	150	168	180	165
CPVC	50	60	180	180
CPVC	75	90	180	135
CPVC	100	114	180	135
CPVC	100	114	180	165
PEX tubing	50	54	180	-
PP-R	50	63	180	180
PP-R	75	90	180	-
PP-R	100	125	180	-
Cable bundle	50, 75, 100, 150	25 to 152	180	45
Insulated Metal pipe	50, 75, 100	Max. 150 (Max. 25 insulation)	180	120
Multiple pipes (cc PVC, PVC, PEX & metal)	50, 75, 100, 150	Max. 3 no of 38mm	120	60

**Important Note:** Please refer to product test and assessment reports for accurate assembly details and fire ratings.

# Cast-in Device FCID Plus

Technical data


Item	Item No.	Fits pipe-Ø	Height H	Sales unit
		[mm]	[mm]	[pcs]
FCID Plus 50	566285	50/2"	200/8"	12
FCID Plus 75	566286	75/3"	200/8"	12
FCID Plus 100	566287	100/4"	200/8"	12
FCID Plus 150	566288	150/6"	200/8"	6
FCID Plus 50 extension	566289	50/2"	50/2"	6
FCID Plus 75 extension	566290	75/3"	75/3"	6
FCID Plus 100 extension	566291	100/4"	100/4"	6
FCID Plus 150 extension	566292	150/6"	150/6"	6
FCID Plus 50 Deck adapter	566293	50/2"	-	6
FCID Plus 75 Deck adapter	566294	75/3"	-	6
FCID Plus 100 Deck adapter	566295	100/4"	-	6
FCID Plus 150 Deck adapter	566296	150/6"	-	6

Technical data

State	solid
Odour	odourless
Fire resistance	Up to 4 hours - EN 1366-3 & BS476-20 & UL 1479
Extension or reduction in height possible	Yes
Standard flange width	min 154 mm and max 254 mm
Significant expansion occurs at temperature	> 190 °C
Shelf life	n/a
Colour	black

# Installation Instructions

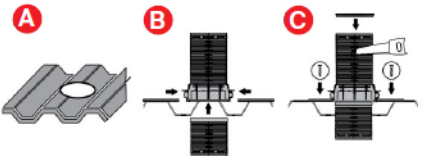
Figure 1.



FCID Plus Cast-In-Device Installation.

1. Select FCID to fit the diameter of penetrant being used, assuring annular space is within limits set by the tested conditions. Layout the FCID on concrete forms or metal deck, and secure by nailing or screwing through fastening holes on the bottom of the flange. FCID alignment connectors allow tight placement of multiple penetrations. If finished concrete is lower than the height of the FCID, cut to finished pour height. Use appropriate non-heat generating cutting tool to cut the FCID to the desired height. Fig.1 (A).
2. Before pouring concrete, ensure top cap of the FCID is secure to prevent the flow of concrete into the FCID during the concrete pour. Fig. 1 (A).
3. Once the concrete is cured, remove the FCID cap to use FCID. Fig. 1 (B).
4. The FCID is ready to use, insert the desired penetrant through. Fig. 1 (C).

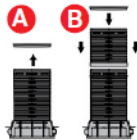
Figure 2.



FCID Plus Cast-In Device Metal Adapter Installation.

1. For metal decking applications, cut hole in the corrugated metal deck to FCID size to be used. Fig. 2 (A).
2. Use metal deck adapter kit to install FCID by attaching deck support to bottom flange then insert extension tube into the bottom of FCID. Fig. 2 (B).
3. Insert extension tube through the precut hole in decking & fasten decking supports to deck with screws. Ensure extension is sealed to prevent leakage of concrete through decking. Fig. 2 (C). If finished concrete is lower than the height of FCID, cut to finished pour height. Use appropriate non-heat generating cutting tool to cut FCID to the desired height. Before pouring concrete, ensure top cap of FCID is secure to prevent the flow of concrete into the FCID during the pour. Fig. 2 (C).
4. Once the concrete is cured, remove the FCID cap to use FCID. Fig. 2 (D).
5. FCID is ready to use, insert the desired penetrant through. Fig. 2 (E).

Figure 3.



FCID Plus Cast-In Device Height Extension Installation

1. Remove FCID cap from the device. Insert appropriate size FCID extension(s) onto FCID aligning connector tabs from FCID with extension receiving slots. Fig.3 (A).
2. Attach additional extensions to reach desired height & place FCID cap back on before pouring concrete. Fig. 3 (B).