

# Fan Fire Collars

## Fire Solutions



- Fire Protection Solution for 100mm and 125mm fans
- Fire Tested to BS EN 1365-2 on a loaded floor
- 30 Minute Fire Rating
- Test evidence for use in Solid Timber, Metal Web Joists and engineered I-Beam floor/ceiling systems

Our Fan Fire collars are designed to provide fire protection for penetrations in floor/ceiling systems when combined with 100mm and 125mm ceiling fans. In the event of a fire, the product's intumescent lining expands to seal off the ceiling opening, creating an effective fire barrier, reinstating the ceiling's fire rating.

Recessed ceiling fans are commonly used in both residential and commercial buildings. However, cutting a hole in the ceiling for a fan compromises the structure's integrity and its fire performance. To restore the original fire rating of the ceiling/floor construction, it is essential to firestop the penetration as required by the Part F Building Regulations or Technical Handbook in Scotland

The Ceiling Fan Firestop features a steel mounting ring with an integral intumescent lining and duct connector. This assembly is fixed into the ceiling lining, allowing for normal installation of the ceiling fan. Compatible with a variety of 100mm and 125mm ceiling fans.

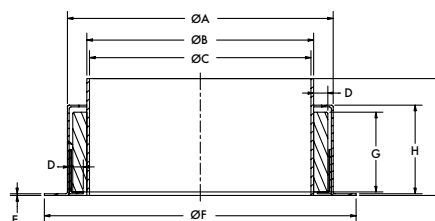
### Cat. No.

FFC100  
FFC125

### Product type

100mm Fan Fire Collar  
125mm Fan Fire Collar

### Dimensions (mm)



Stock Ref.	ØA	ØB	ØC	D	E	ØF	G	H	I
FFC100	125	103	100	8	1	151	45	50	66
FFC125	150	128	125	8	1	176	45	50	66

## Fire Performance and \*Assessment in accordance with BS EN 1365-2

Joist Construction	Ceiling construction with appropriate fire rating	Supply and extract Diameter in mm	Product Fire Classification Rating (minutes)			Report Reference
			Integrity (E)	Insulation (I)	Classification (EI)	
Mitek PS10+ Timber Chord with Metal Web Joist	1 x 15mm Siniat GTEC fire boards	100	30	30	30	Warringtonfire - WF394530
JJI Joists Solid Timber Chord with OSB Web Joist	1 x 15mm Siniat GTEC fire boards	100 and 125	30	30	30	Warringtonfire - WF422978
Solid Timber joists		100 and 125	30	30	30	
Mitek PS10+ PAR/20405/01 Timber Chord with Metal Web Joist	1 x 15mm Siniat GTEC fire board or 2 x 12.5mm Siniat GTEC fire boards	100 and 125	30	30	30	*International Fire Consultants- Mitek PS10+ PAR/20405/01
Timber I beams		100 and 125	30	30	30	

For further test data, please contact us for more information.

30 minute rated floors to be minimum 1 x 15mm or 2 x 12.5mm thick GTEC Fireline fire rated plasterboard on the underside or alternative plasterboard types that demonstrate performance in a system tested to BS EN 1365-2: 2014 for a minimum period of 30 minutes up to the load as tested.

Floor construction to one of the following:

Mitek Posi-Joist made from min. 47mm wide x 70mm high top and bottom flanges and galvanised steel web

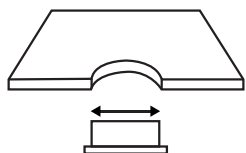
Timber joists min. 225mm high x 45mm wide C24 grade timber

Timber 'I' Beams which have been tested successfully in a system to BS EN 1365-2 for a minimum of 30 minutes up to the load which has been tested

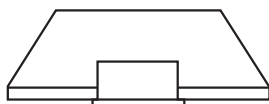
In all above cases the fan/ducting must not penetrate any element of the loadbearing floor system other than the plasterboard layer.

Minimum spacing from other ceiling penetrations must be 200mm.

### Fitting Instructions



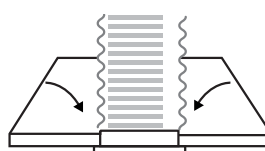
**Step 1**  
Cut a hole in the ceiling to match the outside diameter of the sleeve on the Ceiling Fan Firestop mounting ring.



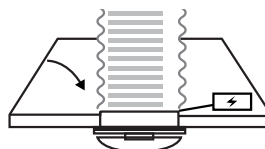
**Step 2**  
Push the Ceiling Fan Firestop mounting ring into the cut out aperture in the ceiling and fix through the collar using 4No. 3.5mm diameter by 42mm long drywall screws, to each of the pre drilled holes.



**Step 3**  
Ensure that the 2No. steel tabs are protruding towards the aperture within the collar, to prevent the duct sliding through the collar.

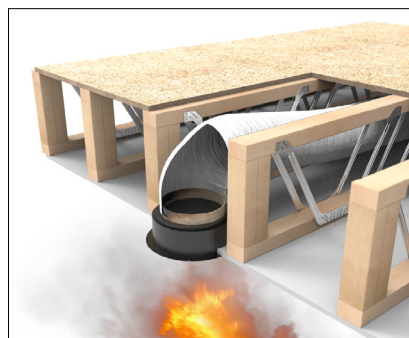
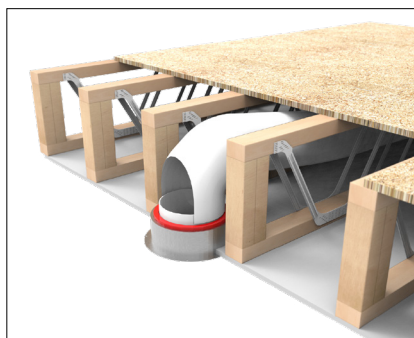


**Step 4**  
Install and fix the ceiling fan unit to the manufacturer's instructions, ensuring that the fan duct work spigot is centrally located within the firestop mounting ring.



**Step 5**  
Connect the ductwork to the ceiling fan duct spigot and the electrical supply as recommended by the fan manufacturer's instructions.

Note: The Ceiling Fan Firestops are not tested or approved for use in walls or partitions.



Ceiling Fan Firestop expands when exposed to heat.

Note: Manrose does not guarantee compliance with Building Regulations Part B, Fire Spread or other regulations that relate to fire planning. Suitability to comply with these regulations should be determined prior to installation and in conjunction with Building Control Officers. Compliance with the Regulations is specifically excluded from quotations and designs. For further information, please contact our technical support department.