

versatile

Fire collars

Fire collars for ductwork passing through fire compartment floor

Product data sheet



Fire collars

Fire collars help to prevent the spread of fire where plastic ductwork penetrate fire compartment floors.

They consist of a continuous pressed stainless steel flexible shell containing high performance graphite based intumescent material which reacts under the influence of heat to exert pressure on the duct as it softens to form a carbonaceous char which provides an effective insulation plug thus preventing fire passing through to the adjoining compartment.

They should be used where a plastic duct penetrates a fire rated floor. For vertical ductwork, one unit should be installed to the underside of the floor.

The project fire consultant should review the test data to ensure compliance for the types of floor system being used.

Key Features

- Tested to [BS EN 1366-3](#) or [BS EN 1365-2](#)
- Classified according to [EN 13501-2](#)
- CE Marked
- Up to 4 hour fire rating
- Can be retrofitted
- Performance unaffected by weathering (Type X Durability)
- Tested for use on concrete and masonry floors
- FIRO100.SPV tested for use with metal web joists and suitable for use with Unity CV2GIP, CV2.1 and CV3

Article Numbers

Description	Product Code
Collars	
Fire collar ø 100mm for CV2GIP, CV2.1 and CV3, ceiling mounting, 50mm depth	FIRO100.SPV
Fire collar ø 100mm, vertical mounting, 50mm depth	FIRO100V
Fire collar ø 125mm, vertical mounting, 50mm depth	FIRO125V
Fire collar 204 x 60mm, vertical mounting, 50mm depth	FIROGD8V
Ancillaries	
Intumescent acrylic sealant, 310ml tube	IAST310

Fire collar ø 100mm for CV2GIP, CV2.1 and CV3, ceiling mounting, 50mm depth

Article number: FIRO100.SPV

Description

Fire collar:

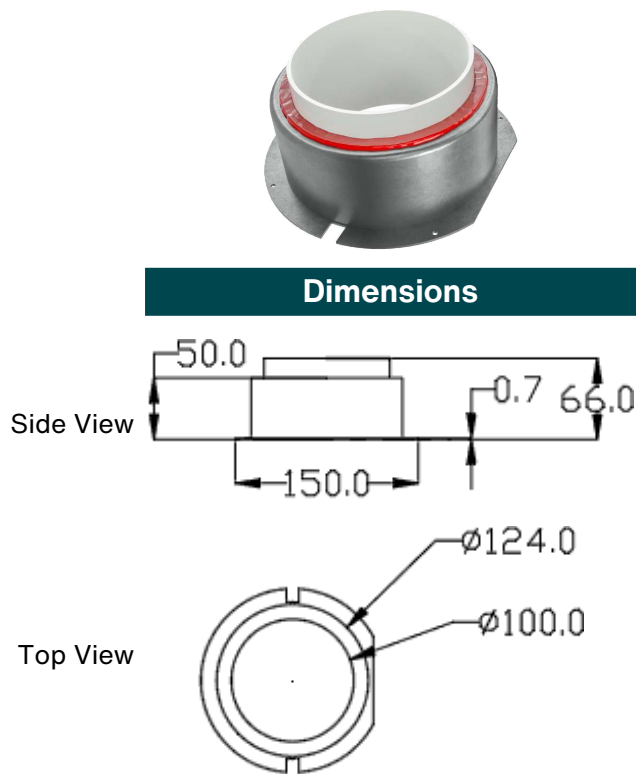
Recessed ceiling fans are commonplace in domestic buildings, primarily for aesthetic gains. Ceilings are subject to fire regulations and must be fire protected in accordance with Approved Document B. To support this, any holes that are made for ceiling fans must be fire stopped, in order to reinstate the original fire rating of the ceiling. To satisfy this requirement the fire collar for ceiling fan has been developed to provide protection for holes created by 100 mm ceiling fans. The Fire Damper for Ceiling Fan is both quick and easy to install and has been independently approved with Unity CV2, CV2.1 and CV3 extract fans.

Technical Specification

Length	66 mm
Diameter ID	100 mm
Diameter OD	124 mm
Weight	0.5 kg
Material	Modified steel / fire wrap
Fire Tested to BS EN 1365-2 standard	30 minute fire rating Tested in Timber / Metal Web Joist system

Test Type	Fire Test Lab	Report Number	Construction	Fire Rating
Fire Test	Warrington Fire	WF394530	Mitek PS10+ Timber Chord with Metal Web Joist with 1 x 15mm Siniat GTEC fire boards	Up to 30 min
Fire Test	Warrington Fire	WF422978	JJI Joists Solid Timber Chord with OSB Web Joist and 1 x 15mm Siniat GTEC fire boards	Up to 30 min
Fire Test	International Fire Consultants	PAR/20405/01	Solid Timber joists / Mitek PS10+ Timber Chord with Metal Web Joist / Timber I beams with 1 x 15mm Siniat GTEC fire board or 2 x 12.5mm Siniat GTEC fire boards	Up to 30 min

■ For use with Unity Low Energy dMEV Fan



Fire collar ø 100mm, vertical mounting, 50mm depth

Article number: FIRO100V

Description

Fire collar:

Fire collars prevent the spread of fire where plastic vent ducts penetrate fire compartment floors. This application should be read in conjunction with the Quelfire Statement regarding Plastic Vent Ducts through floors and ceiling found on our website, and reviewed by either the project Fire Consultant or a qualified 3rd party.

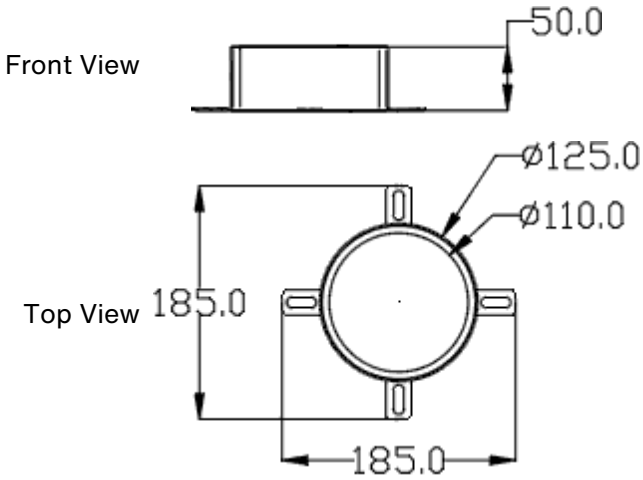
Technical Specification

Length	50 mm
Duct Size	110 mm
Recommended hole diameter	112 mm
Approx. space needed around duct to fit collar	40 mm
Weight	0.29 kg
Material	Pressed stainless steel / intumescent material
CE marked	Yes
Fire Tested to	BS EN 1366-3 Up to 240 minute fire rating

Fire Test Lab	Duct Type	Report Number	Construction	Fire rating
Warrington Fire	U-PVC with 1.5mm wall thickness	WF356402 – Specimen F	Plastic Vent Duct penetrating a rigid floor (150mm or thicker) of concrete or aerated concrete, with a minimum density of 670kg/m³ This detail must be read in conjunction with the Quelfire Statement regarding Plastic Vent Ducts through floors and ceilings.	Up to 240 min



Dimensions



Fire collar ø 125mm, vertical mounting, 50mm depth

Article number: FIRO125V

Description

Fire collar:

Fire collars prevent the spread of fire where plastic vent ducts penetrate fire compartment floors. This application should be read in conjunction with the Quelfire Statement regarding Plastic Vent Ducts through floors and ceiling found on our website, and reviewed by either the project Fire Consultant or a qualified 3rd party.

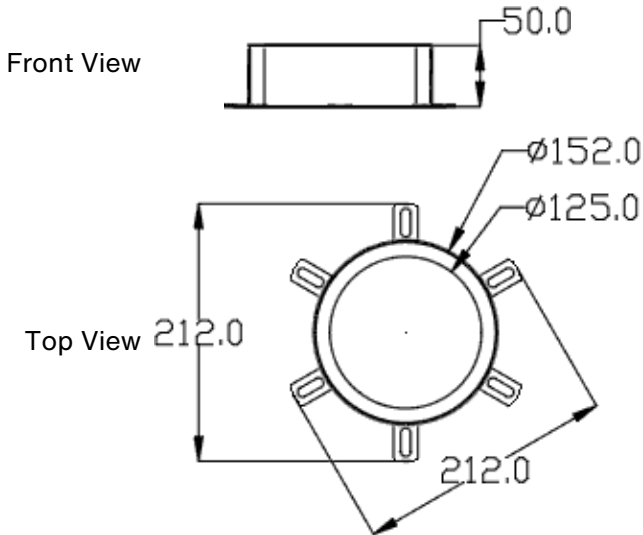
Technical Specification

Length	50 mm
Duct Size	125 mm
Recommended hole diameter	132 mm
Approx. space needed around duct to fit collar	45 mm
Weight	0.47 kg
Material	Pressed stainless steel / intumescent material
CE marked	Yes
Fire Tested to	BS EN 1366-3 Up to 240 minute fire rating

Fire Test Lab	Duct Type	Report Number	Construction	Fire rating
Warrington Fire	U-PVC with 1.5mm wall thickness	WF356402 – Specimen F	Plastic Vent Duct penetrating a rigid floor (150mm or thicker) of concrete or aerated concrete, with a minimum density of 670kg/m³ This detail must be read in conjunction with the Quelfire Statement regarding Plastic Vent Ducts through floors and ceilings.	Up to 240 min



Dimensions



Fire collar 204 x 60mm, vertical mounting, 50mm depth

Article number: FIROGD8V

Description

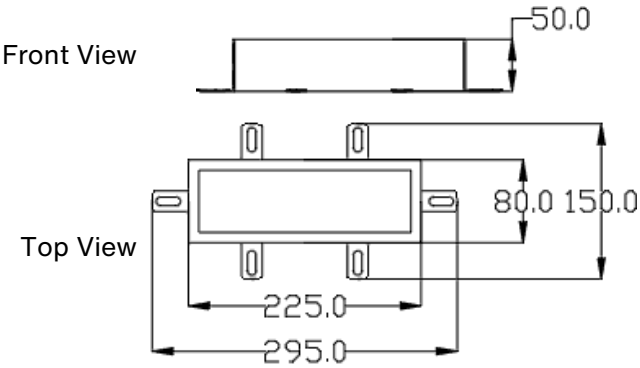
Fire collar:
Fire collars prevent the spread of fire where plastic vent ducts penetrate fire compartment floors. This application should be read in conjunction with the Quelfire Statement regarding Plastic Vent Ducts through floors and ceiling found on our website, and reviewed by either the project Fire Consultant or a qualified 3rd party.

Technical Specification

Length	50 mm
Duct Size	204 x 60 mm
Recommended aperture size	206 x 62 mm
Approx. space needed around duct to fit collar	45 mm
Weight	0.45 kg
Material	Pressed stainless steel / intumescent material
CE Marked	Yes
Fire Tested to BS EN 1366 - Up to 30 minute fire rating 3 standard	



Dimensions



BIM/CAD Components

If you would like to download the BIM / CAD files for this or any other of our products then please visit our BIM library.

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CLICK HERE

Installation Instructions

If you would like to download the installation files for this or any other of our products then please visit our download page by clicking the link below.

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Fire Test Lab	Duct Type	Report Number	Construction	Fire rating
Warrington Fire	U-PVC with 1.5mm wall thickness	WF366873 – Specimen C	<p>Plastic Vent Duct penetrating a rigid floor (150mm or thicker) of concrete or aerated concrete, with a minimum density of 670kg/m³</p> <p>This detail must be read in conjunction with the Quelfire Statement regarding Plastic Vent Ducts through floors and ceilings.</p>	Up to 30 min

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