

# Zehnder Fire collars

Fire collars for ductwork passing through fire compartment floors.

Product data sheet

always the best climate



# 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.

## 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

## Article Numbers

Description	Product Code
<b>Collars</b>	
<a href="#">Fire collar ø 100mm for CV2GIP, CV2.1 and CV3, ceiling mounting, 50mm depth</a>	<a href="#">FIRO100.SPV</a>
<a href="#">Fire collar ø 100mm, vertical mounting, 50mm depth</a>	<a href="#">FIRO100V</a>
<a href="#">Fire collar ø 125mm, vertical mounting, 50mm depth</a>	<a href="#">FIRO125V</a>
<a href="#">Fire collar 204 x 60mm, vertical mounting, 50mm depth</a>	<a href="#">FIROGD8V</a>
<b>Ancillaries</b>	
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.

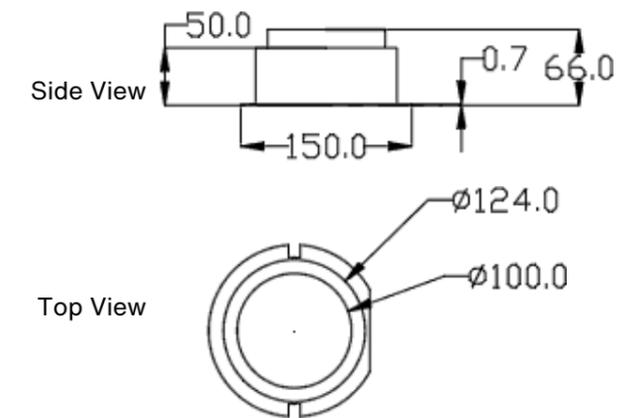
### Technical Specification

Length	66 mm
Diameter ID	100 mm
Diameter OD	124 mm
Weight	0.5 kg
Material	Modified steel / fire wrap
Fire Tested to <a href="#">BS EN 1365-2</a> 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	WF 394530	Metal Web Joist	Up to 30 min
Fire Test (indicative)	Warrington Fire	WF 391714/A	Metal Web Joist	Up to 30 min



### Dimensions



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

Article number: FIRO100V

**Description****Fire collar:**

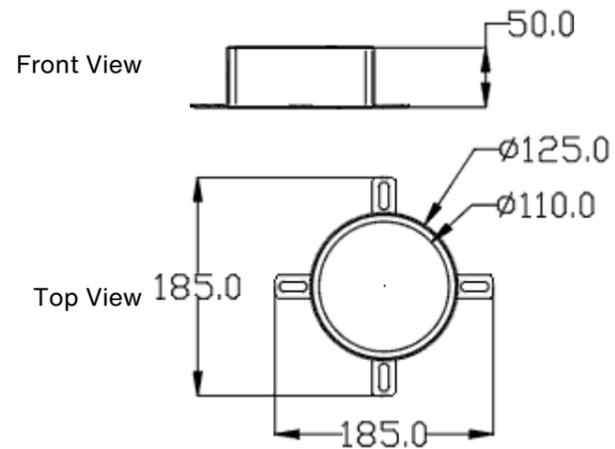
Fire collars prevent the spread of fire where plastic vent ducts penetrate fire compartment floors. This application should be read in conjunction with the Quelfire Statement regarding Plastic Vent Ducts through floors and ceiling found on our website, and reviewed by either the project Fire Consultant 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](#)- Up to 240 minute fire rating  
3 standard

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/m <sup>3</sup>  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:**

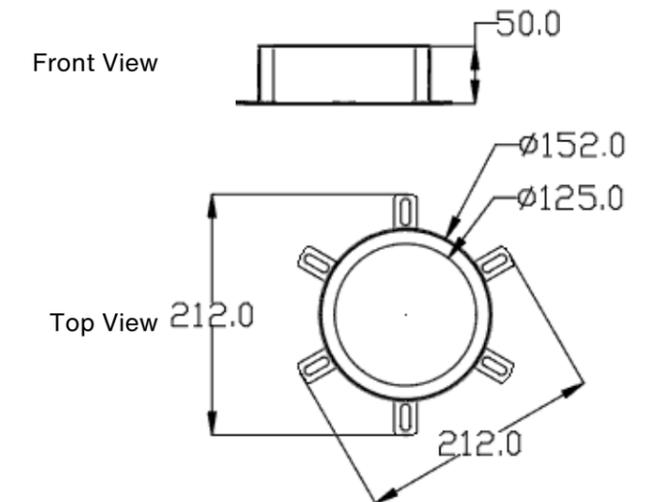
Fire collars prevent the spread of fire where plastic vent ducts penetrate fire compartment floors. This application should be read in conjunction with the Quelfire Statement regarding Plastic Vent Ducts through floors and ceiling found on our website, and reviewed by either the project Fire Consultant 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](#)- Up to 240 minute fire rating  
3 standard

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/m <sup>3</sup>  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.

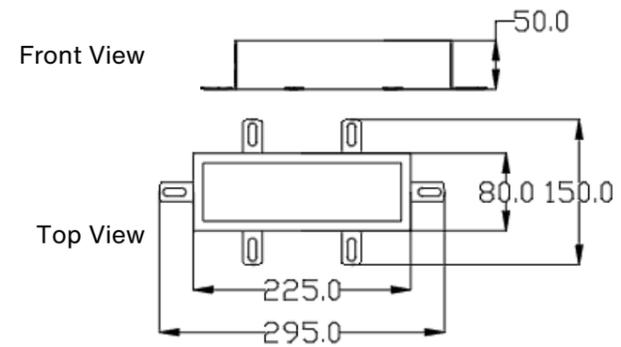
#### Technical Specification

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



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/m<sup>3</sup></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

#### BIM/CAD Components

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#### Installation Instructions

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