



# FIRESTOP CENTRE

Authorised New Zealand Distributor  
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## FIRESTOP Duct Wrap-38 Rectangular duct (up to 1800 x 1000mm) Concrete Floor (90mm thick or greater) Internal Fire



Report FTSL AR23108, Pages 7, 16, 18  
FAS AS1530.4-2014 AS4072.1-2005

System ID# FC223

<b>Products</b>	FIRESTOP Duct Wrap-38 Protecta FR Board Protecta FR Acrylic
<b>Application</b>	Fire stopping of rectangular duct penetrating a concrete floor
<b>Construction</b>	Concrete floor slab min 90mm thick

**Fire Classification**  
NOTE: For general instructions on installing FIRESTOP Duct Wrap-38 see [Installation Instructions](#) sheet on Firestop Centre website.

**Internal Fire**

For ducts less than 800 x 800mm or equiv area:	
Single layer wrap	FRR 120/120/-
Add 600mm 2nd layer	FRR 120/120/30
Add 1900mm 2nd layer	FRR 120/120/60
Add 2040mm 2nd layer and 1660mm 3rd layer	FRR 120/120/120
For ducts greater than 800 x 800mm or equiv:	
Single layer wrap	FRR 120/120/-
Add 900mm 2nd layer	FRR 120/120/30
Add 11780mm 2nd layer and 860mm 3rd layer	FRR 120/120/60
Add 2040mm 2nd layer and 1660mm 3rd layer	FRR 120/120/120

NOTE: Where floor FRR is less than above reduce penetration rating to match the floor.



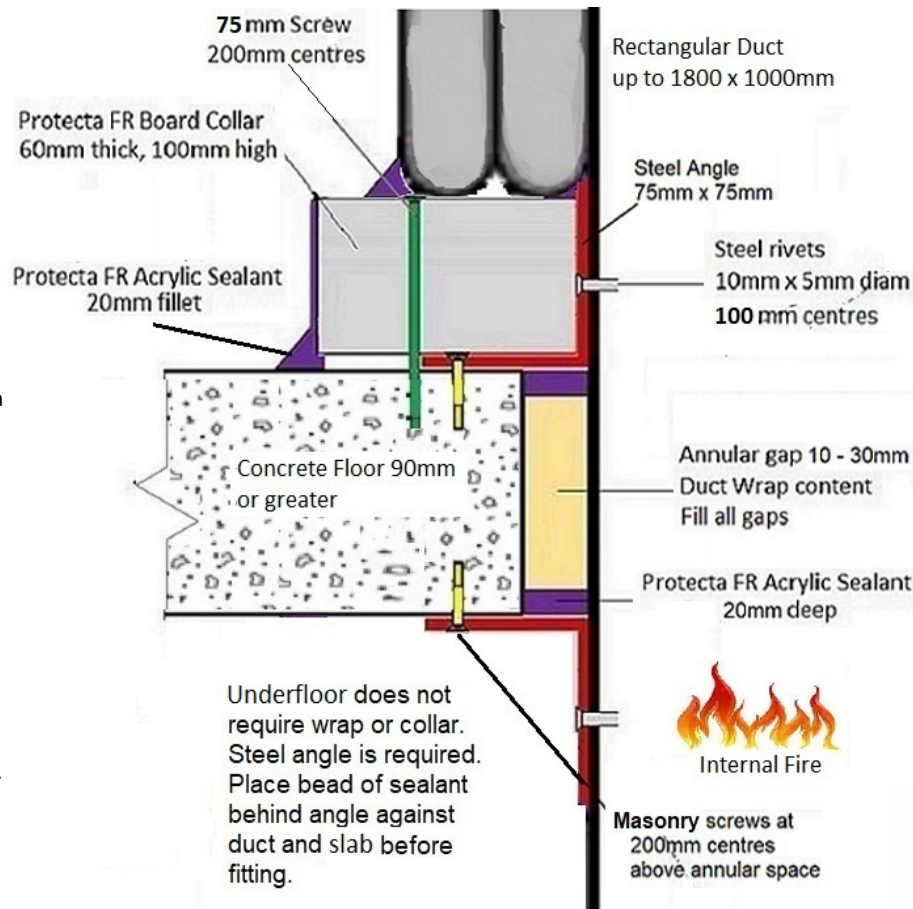
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Sheet size: **A4**      Drawn date & no: 20/5/24

### INSTALLATION INSTRUCTIONS

- Aperture to have annular gap 10 - 30mm.
- Place unfoiled Firestop Duct Wrap material compressed nominally 30% into the annular gap with 20mm recess each side. Ensure any gaps in corners, etc are filled to the required compression.
- Seal each side of the floor with 20mm deep Protecta FR Acrylic Sealant.
- Attach 1.2mm thick steel angle 75mm x 75mm to all sides. Fix to the duct with steel rivets 10mm x 5mm diam at 100mm centres in the centre of the angle. Fix to the floor with masonry screws (min 40mm) at 200mm centres high enough to clear the annular space. Apply a bead of Protecta FR Acrylic Sealant behind the steel angle on the underfloor side and seal any joints or corner gaps with Protecta FR Acrylic Sealant.
- On the top side construct a collar minimum 100mm wide from Protecta FR Board (60mm 2-sided) and fix directly to the floor with 8-10g x 75mm screws with penny washers at 200mm centres (passing above the steel angle).
- Use Protecta FR Acrylic Sealant to fill any gaps in the collar. Then apply a 20mm fillet at the floor/collar joint and the duct/collar/angle joint. Finally cover the exposed cut edges of the collar with Protecta FR Acrylic or Protecta FR Coating.
- Install the Firestop Duct Wrap layers on the top side and seal the wrap/collar junction with Protecta FR Acrylic.

NOTE: Diagram shows 2 layer system, but see details on right for number of layers



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For all technical details on the products specified please refer to the technical data sheets that can be found on [www.firestopcentre.co.nz](http://www.firestopcentre.co.nz)

Signed and approved: