



FIRESTOP CENTRE

Authorised New Zealand Distributor
Ph (09) 483 4000 www.firestopcentre.co.nz

FIRESTOP Duct Wrap-38 Rectangular Duct (up to 1800 x 1000mm) Concrete Floor (90mm thick or greater) Internal or External Fire



Report AR23108, Pages 9-11, 25, 26, 28
AS1530.4-2014 AS4072.1-2005

System ID# FC284

Products	FIRESTOP Duct Wrap-38 Protecta FR Board Protecta FR Acrylic or FIRESTOP Ultra
Application	Fire stopping of rectangular duct penetrating a concrete floor
Construction	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.

FRR 60/60/-

Below floor single layer wrap
Above floor single layer wrap

FRR 60/60/30

Below floor single layer wrap
Above floor single layer with 900mm second layer

FRR 60/60/60

Below floor double layer wrap
Above floor single layer wrap with 1900mm second layer. For ducts above 800x800mm (or equivalent area) add 900mm third layer

FRR 120/120/120

Below floor double layer wrap
Above floor single layer with 2100mm second layer and 1700mm third layer

NOTE: Floor systems are tested with fire from below the floor. Where floor FRR is less than above reduce penetration rating to match the floor.



FIRESTOP

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INSTALLATION INSTRUCTIONS

Aperture to have annular gap 10 - 30mm.

Sealants permitted for this system are Protecta FR Acrylic or FIRESTOP Ultra. Either may be used.

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 top and bottom of the floor with 20mm deep sealant. Then apply a bead of sealant to the duct and the floor prior to attaching the angle.

Attach 1.2mm thick steel angle 75mm x 75mm top and bottom of the floor.

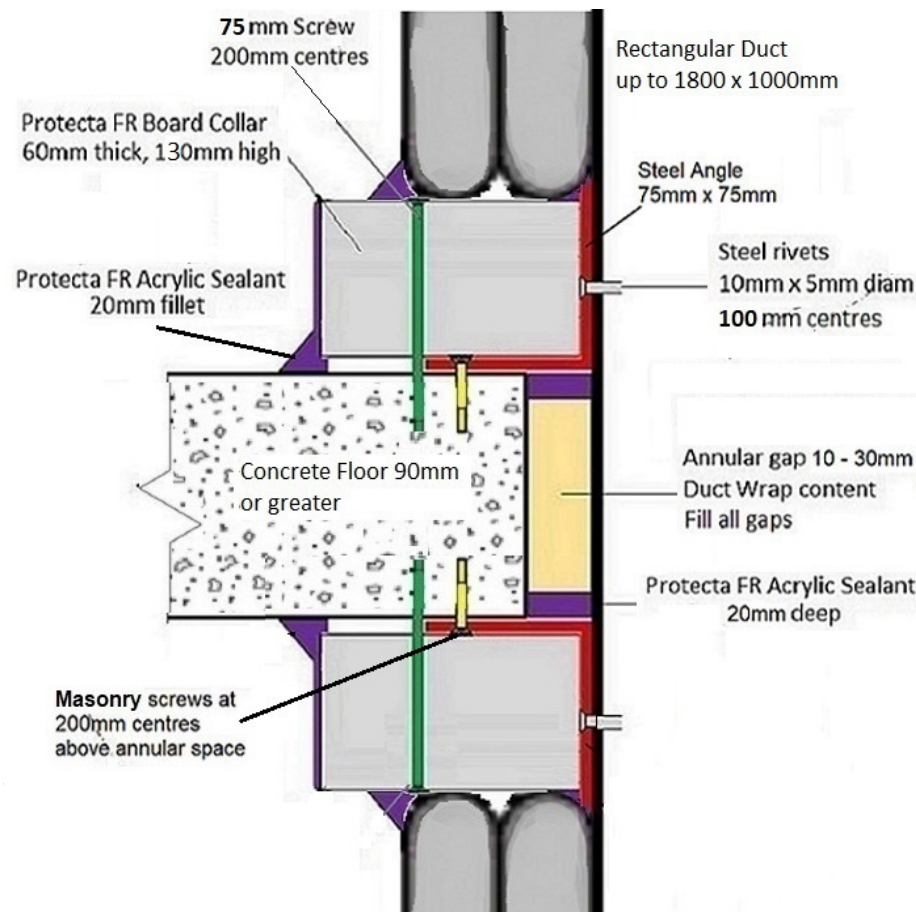
Fix to the duct with steel rivets 10mm x 5mm diam at 100mm centres in the centre of the angle.

Fix to the floor with masonry screws (min 32mm) at max 200mm centres high enough to clear the annular space. Ensure a fixing at max 50mm from each end of an angle section. Apply sealant to any joints or corner gaps.

Apply a bead of sealant to each face of the angle. Construct a collar minimum 130mm 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). Ensure a fixing at max 50mm from the end of each frame section.

Fill any joints in the collar with sealant. Then apply a 20mm sealant fillet at the floor/collar joint and the duct/collar/angle joint. Finally cover the exposed cut edges of the collar with sealant or Protecta FR Coating.

Install the Firestop Duct Wrap layers as specified and a sealant fillet at the wrap/collar junction.



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