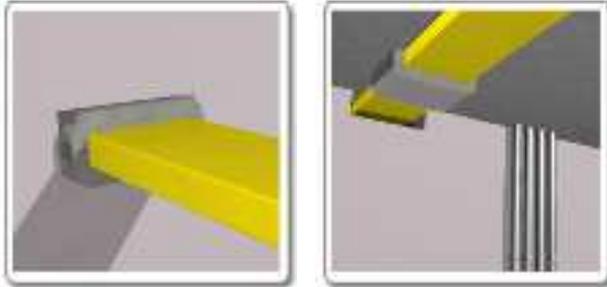


Duct Sleeve - Installation Guide



Introduction

The purpose of this document is to give guidance to approved contractors and suppliers who are engaged in the fire stopping of service penetrations in fire rated structures using the Astro DS Duct Sleeve.

All service holes through floors and compartment walls must be fire stopped to prevent the passage of fire, smoke and hot gases.

Prevent the spread of fire, smoke and hot gases through a building by containing it in the compartment of origin.

Maintain the integrity of escape routes from a building.

Reduce loss or damage to property from the effect of fire and smoke.

Maintain pressure differential between compartments and ventilation channels.

The Astro DS Duct Sleeve System

The ASTROflame range of Astro DS duct sleeves are intended for use where a ventilation duct passes through a fire rated wall. The sleeve maintains the integrity of the fire rated wall which would otherwise be lost.

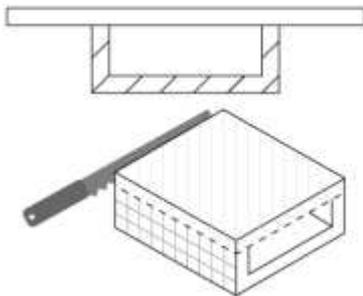
In the event of a fire, the advanced Astro DS Duct Sleeve will expand with the heat, crushing the duct and closing off the hole to the fire for at least 2 hours (1 hour for 220mm x 90mm wrap).

The Ventilation duct sleeves are available to fit all common sizes of plastic ventilation duct and are suitable for retro fitting with access only required from one side

Installation

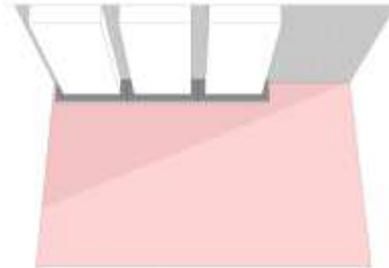
Step 1

For ducts fitted against ceiling soffit the top side of sleeve can be removed *, leaving three sides **



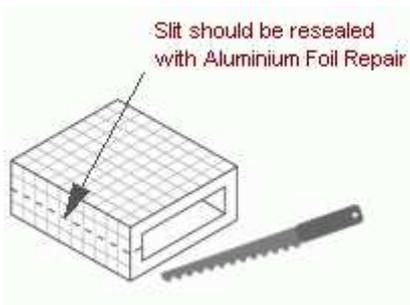
Step 2

The Fire Sleeve can be used to firestop multiple ducts in series. See Note 1 below for Multiple Ducts



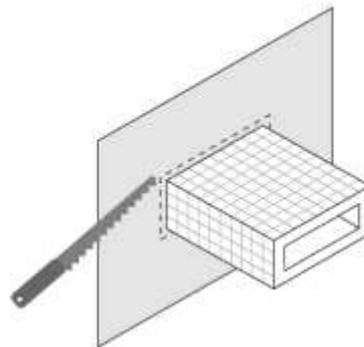
Step 3

For Fire Sleeves being fitted 4-sided, make a slit along sleeve length to allow fitting around pre-installed ducts



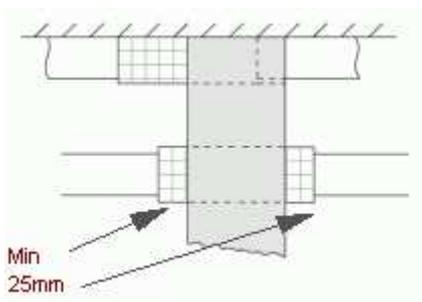
Step 4

Use the Fire Sleeve as a template when cutting the plasterboard to provide snug fit around the Fire Sleeve ***



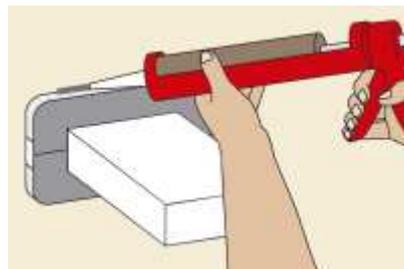
Step 5

Slide Fire Sleeve until central within partition, the Fire Sleeve must protrude each side of partition by 25mm minimum (40mm for 220x90mm version)



Step 6

Plasterboard should be a snug fit, however any gaps (up to 5mm) should be sealed with [intumescent sealant](#)



Note 1 - Multiple Duct Penetrations

The Fire Sleeve is approved for up to 3No. Fire Sleeves to be installed 'side-by-side' around multiple duct penetrations such that the sides of the Fire Sleeves are in contact with each other.

The above fitting instructions should be closely followed in all cases.

It is the responsibility of the installer to ensure the partition stud / head track will continue to offer the necessary support / fixity to maintain the necessary partition performance.

Notes

* When removing the top side ensure both sides of the Fire Sleeve are of sufficient length to abut the ceiling soffit once installed around Vent Duct (**NOT possible with 220x90mm duct**).

** If the Fire Sleeve is installed prior to the partition, it can either be mechanically held in position with a steel strap / steel stud or taped to the Vent Duct with aluminium tape to hold in position prior to the partition being installed.

*** Fire Sleeves fitted against the ceiling soffit should have the top side removed before using as a template (**NOT possible with 220x90mm duct**). The Fire Sleeve is compressible to allow a snug fit to be achieved when fitting within the plasterboard partition, any gaps (up to 5mm) should be sealed with [intumescent sealant](#).

Compliance

Astro DS Duct Sleeve is manufactured in the EU, meeting the highest quality standard in compliance with ISO EN 9001:2000 . For fire test certification contact Astroflame Fireseals technical department.

Fire Tests

Tested to BS476 Part 22 / EN1366-3

Storage and disposal

Astro DS Duct Sleeve should be stored indoors. No shelf life is given as this product will not deteriorate in storage.

For additional testing, certification or technical information please contact ASTROFLAME FIRESEALS LTD.

Issue 1/13

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