Aston University
Birmingham

Estates & Capital Developments

SEALING OF PENETRATIONS THROUGH FIRE LINES (FIRE STOPPING) SPECIFICATION

Revised: December 2017

[Issue No 3]

Contents

SECTION 1 - Table of Amendments

Issue No.	Date Revised	Items updated
0.	June 2017	Original document – DRAFT.
1.	July 2017	Fire door frame sealant and cable trunking interior protection added.
2.	November 2017	Fire stopping specification 2 amended.
3.	December 2017	Fire stopping minimum level of protection specified.

SECTION 2 - Scope

2.01 Purpose of the document

This document details the method of sealing penetrations (of all sizes) through fire lines during construction, refurbishment and maintenance works.

2.02 Enforcement

Where works are carried out in existing campus buildings, and the building fabric is to be disturbed, a 'Disruption of Building Fabric is required'. As part of this permit system, the permit will stipulate what fire stopping method is to be used dependant on the works being carried out.

For new build works, this specification shall form part of the construction contract.

Photographic evidence of all penetrations and the making good are to be provided by the organisation appointed as the Principal Contractor. Each repaired penetration shall include a label detailing the company name, date and installers initials.

SECTION 3 - Specification

3.01 Matrix of fire stopping

The following matrix shall be used to determine which fire stopping procedure/ product shall be used to make good the fire line:-

Penetration Type	Fire Stopping Specification
Single cable/ conduit/ pipe penetrations in 'front of house' areas. Maximum 50mm diameter service passing through the penetration.	1 - Hilti Firestop Plug CFS-PL range.
Multiple cable penetrations in 'risers' / 'voids' / 'plant areas'.	2 - Hilti Firestop Sleeve CFS-SL range OR Legrand EZ-Path Firestop module.
Plastic pipe, 50mm to 250mm diameter.	3 - Hilti Firestop collar CFS-C P range.
Copper/ Steel/ Cast iron/ Stainless steel pipes, 50mm to 1500mm.	4 - Hilti Firestop bandage CFS-B range.
Sealant of gaps between fire door frames and openings within fire lines.	5 - Hilti Flexible Firestop Sealant CP606
Infill of hollow cable containment systems 50mm x 50mm and greater i.e. to provide a fir barrier within cable trunking systems.	6 - Hilti Firestop cushion CFS-CU range
All other penetrations.	7 – Hilti Firestop coated board system CP670 range. NOTE: - Where pipes greater than 50mm pass through this system, supplementary collars (3)/ bandages (4) shall also be used.

The above fire stopping systems MUST be applied to both sides of the fire line (with exception of item 6).

Alternative products may be used, however these must be approved by an Estates & Capital Development Officer and the Fire Safety Advisor prior to use.

All penetrations through fire compartments shall be made good to afford the same level of fire protection as that of the compartment being breached. This shall be a minimum of 2 hour protection.

All work shall comply with current statutory regulations, Building Regulations, British Standards, or other relevant approved codes of practice.

SECTION 4 – Product Datasheets

4.01 Contents

The following product data sheets have been supplied by www.hilti.co.uk.

It is the responsibility of the supplier undertaking the works to check that these are the latest product data sheets and that they fully understand the application/ installation instructions.

The following data sheets are included:-

1. Hilti Firestop Plug CFS-PL range.
2. Hilti Firestop Sleeve CFS-SL range/ Legrand EZ-Path Firestop module.
3. Hilti Firestop collar CFS-C P range.
4. Hilti Firestop bandage CFS-B range
5. Hilti Flexible Firestop sealant CP606 range.
6. Hilti Firestop cushion CFS-CU range.
7. Hilti Firestop coated board system CP670 range.