coopers

SMOKE AND FIRE CURTAINS



FireStopping
BY COOPERS FIRE

This system creates a fire resistant barrier between the structural soffit and the active fire curtain headbox while allowing approved service penetrations through the tested assembly.

This restores compartmentation and provides a continuous passive fire protection solution around the curtain installation. Creating one fully comprehensive solution for the whole building.

GREAT BRITAIN & NORTHERN IRELAND · RIBA · FIA · NBS · ASFP · FPA

LEADING THE WAY IN FIRE PROTECTION

coopers
SMOKE AND FIRE CURTAINS

KEY PERFORMANCE



INTEGRITY

Up to 90 minutes



COMPATABILITY

Installed above all Coopers Fire curtain systems (Single, Multiple, Wide, and Concertina systems)



CERTIFICATION

Third party approved:
EN 1634-1
EN 1363-1



A1 FIRE RATING

All fabric materials are classified as A1 (non-combustible) according to BS EN 13501-1

WHY FIRESTOPPING AND WHY COOPERS FIRE?

An active fire curtain is only one element of the overall fire protection strategy. The interface between the curtain headbox and the structural soffit must also be considered to maintain the required fire performance and continuity of compartmentation.

Coopers Fire FireStopping provides a defined solution for this interface, developed specifically for use with our FireMaster® fire curtain systems and supported by relevant fire test and Field of Application assessment evidence.

By considering the fire curtain and FireStopping together, we can help remove uncertainty at a critical interface between trades and provide a clear, evidence based solution from the outset.

CUSTOMER BENEFITS

- ✓ Up to 90 minutes fire integrity where no services exist in the soffit or void above the curtain
- ✓ Penetration seals supported by third party Field of Application
- ✓ Complete traceability of the installed FireStopping system
- ✓ Compatability across the FireMaster® curtain range
- ✓ Simplified coordination between trades
- ✓ Up to 60 minutes fire integrity where services do exist in the soffit or void above the curtain
- ✓ Supports Building Regulations compliance through defined test and assesment evidence
- ✓ Tested solution with accompanying UKAS accredited Field of Application
- ✓ Reduced installation risk
- ✓ Faster design approval

LEADING THE WAY IN FIRE PROTECTION

coopers
SMOKE AND FIRE CURTAINS

WHY IS IT NEEDED?

This system creates a fire resistant barrier between the structural soffit and the active fire curtain headbox, while allowing approved service penetrations through the assessed assembly.

It provides continuity of compartmentation around the fire curtain installation and creates a coordinated fire curtain and firestopping solution, supported by relevant test and assessment evidence.

Design it in, rather than resolve it on site.

FireStopping should be considered during the design and coordination stage. Supporting construction, fire resistance requirements and service penetrations can then be checked against the tested and assessed scope before installation.



ONE SUPPLIER

ONE INSTALLER

ONE COMPLETE FIRE PROTECTION SOLUTION

SUPPORTING BUILDING SAFETY

Approved Document B provides guidance on maintaining compartmentation and appropriately fire stopping joints and service penetrations.

A defined and appropriately evidenced solution also supports project duty holders in demonstrating compliance and maintaining accurate information through the design and construction process, consistent with the principles of the Building Safety Act and the Golden Thread.

One manufacturer. One coordinated solution. Defined evidence from design through to installation

EARLY ENGAGEMENT REDUCES RISK

FireStopping should be considered early in the design process. Coopers Fire can review the proposed construction, required fire performance and service penetrations against the available test and assessment evidence before installation.

This helps identify potential issues before they reach site, reduces the risk of unassessed modifications and supports coordination between the fire curtain, firestopping and building services.

coopers
SMOKE AND FIRE CURTAINS

PRODUCT FEATURES

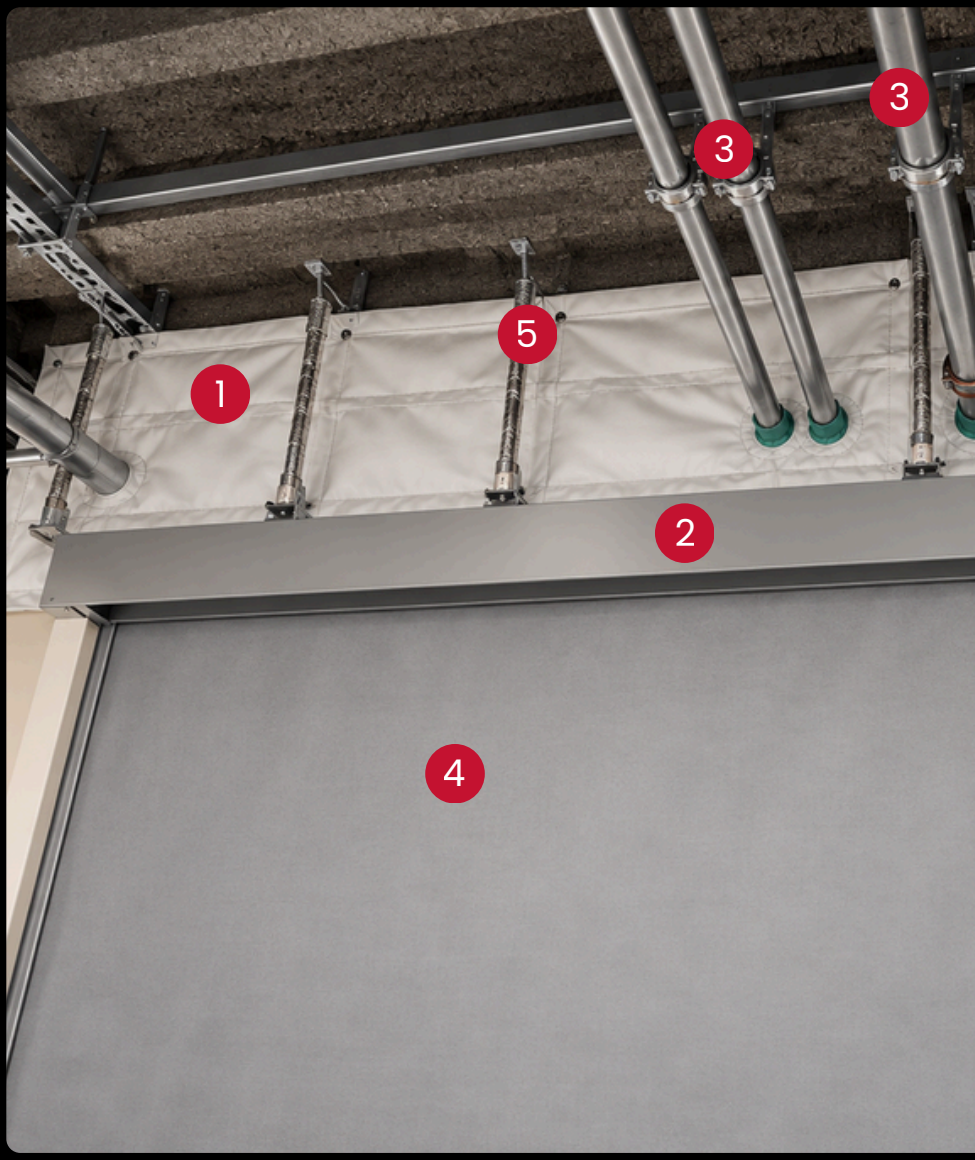
1 **FireStopping**
Creates a fire barrier between the soffit and headbox, supported by fire test evidence and a Field of Application assessment for defined variations

2 **Headbox**
Conceals the active fire curtain when not in use

3 **Service Penetrations**
Assessed penetration details allow building services to pass through the barrier while maintaining the stated fire performance, within the defined scope

4 **Active Fire Curtain**
Firestopping solution supported by test and assessment evidence to help prevent the spread of fire

5 **Drop Rods**
Suspension system that supports the headbox



WITHOUT



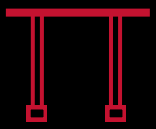
WITH



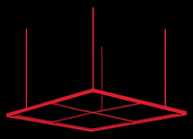
LEADING THE WAY IN FIRE PROTECTION

coopers
SMOKE AND FIRE CURTAINS

TYPICAL APPLICATIONS



Fire curtains that are suspended on drop rods



A suspended ceiling that sits below the structual soffit



Where there are changes in soffit height



FireStopping barriers can be secured to brick or concrete, using steel profiles for attachment

A TESTED AND ASSESSED APPROACH

Choosing the Coopers Fire solution means the fire stopping arrangement can be designed within known and assessed parameters, including supporting construction, dimensions and approved service penetrations.

Where an alternative fire stopping arrangement is proposed by others, its suitability and compatibility with the fire curtain installation must be separately established and supported by appropriate evidence. Responsibility for the design and acceptance of that alternative arrangement remains with the relevant project parties.

PARAMETERS

FireStopping is a single layer flexible fabric structure. This is a tested solution with accompanying UKAS accredited Field of Application.

Where proposals fall outside the parameters below, a project specific assessment would be required, with acceptance by the project's appointed fire engineer/design team.

PERFORMANCE

- 90 minutes integrity
- Reduced to 60 minutes integrity where penetrations are introduced

INSTALLATION

- Minimum height = 300mm
- Maximum height = 1,500mm
- Maximum width = Unlimited
- Where penetrations are required then the static barrier must be fixed to rigid blockwork construction only
- If there are no penetrations passing through the static barrier this can be fixed to a flexible construction.

PENETRATIONS

- Maintain a minimum 150 mm clear distance between penetrations and the edge of the opening.
- Maintain a minimum 100 mm clear distance between adjacent service penetrations.
- Maximum of four service penetrations per section of fabric.
- Where reduced spacing is required due to service congestion and falls outside the tested scope, obtain sign-off from a fire engineer or building control.
- All penetrations must be installed with supports fixed back to the supporting construction as to remain independent from the static fire barrier.

coopers
SMOKE AND FIRE CURTAINS

APPROVED PENETRATIONS

PENETRATING SERVICE	DIAMETER / SIZE	WALL THICKNESS
Steel pipe	Pipe diameter up to 60mm	Steel: 4.5 - 5mm
PVC pipe	Pipe diameter up to 110mm	3.4mm
Steel cable tray with cables	Up to 155mm wide x 25mm high	Tray: 1mm thick
Steel cable tray with cables	Up to 100mm wide x 12mm high	Tray: 1.6mm thick
Timber strut	Up to 100mm wide x 50mm thick	N/A
Steel trunking	Up to 53mm wide x 53mm high	Steel: 1.2mm thick

CABLE TYPE	MAXIMUM CABLE DIAMETER	No. OF CABLES IN 1 BUNDLE
Multicore 'power' cables including coppers conductors and sheathed with PVC with steel wire armour	12mm	2 qty. maximum if > 10 diameter
Multicore cables including coppers conductors and sheathed with PVC with steel wire armour	9mm	Up to a combined diameter of 16mm
Multicore cables including coppers conductors and sheathed with PVC with metallic sheet barrier (Fire cable)	7mm	Up to a combined diameter of 16mm
Network / telecommunications cables	8mm	Up to a combined diameter of 16mm
Multicore cables, including coppers conductors and sheathed with rubber	6mm	Up to a combined diameter of 16mm

coopers
SMOKE AND FIRE CURTAINS

THE COOPERS PROCESS

INITIAL ENQUIRY
Get in touch with our team sales@coopersfire.com

UNDERSTAND YOUR PROJECT REQUEST
And fixing substrates

REVIEW DRAWINGS
Review our tested & certified details

QUOTATION PROVIDED
A detailed quotation is provided

QUOTATION ACCEPTED
Terms agreed

SITE SURVEY
A site survey is carried out before installation

REQUOTE IF REQUIRED
If changes are identified during site survey

PROJECT PACK SUBMITTED
Site specific detail pack issued for approval

INSTALLATION
The active fire curtain is installed. Followed by the FireStopping

RECORD INSTALLATION
For future traceability and compliance assurance

CERTIFICATE SHARED
A certificate of compliance is issued and shared with the end customer

CONTACT US

Coopers Fire Ltd,
Ignis House, Houghton Avenue
Waterlooville, Hampshire,
PO7 3DU,
United Kingdom

Phone: +44 (0)2392 454 405
Email: info@coopersfire.com
Web: www.coopersfire.com

coopers
SMOKE AND FIRE CURTAINS