

# FIREMASTER® FOR LIFTS

FIRE AND SMOKE CONTROL CURTAINS FOR LIFTS AND LIFT LOBBIES

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LEADING THE WAY IN FIRE PROTECTION

# FIRE AND SMOKE CONTROL CURTAINS FOR LIFTS AND LOBBIES

The main purpose of the lift and staircase lobby is to prevent the spread of fire and smoke from an accommodation floor to other levels via penetrations.

Where lifts are sent to their safe level in the event of an alarm, the simplest and most effective way of overcoming the need for a lobby is by the installation of a fire curtain with smoke control in front of the lift door on all floors except the escape level. Thus providing fire resistance and smoke containment in one.

- A fire curtain with smoke control is a direct replacement for a non-load bearing wall and fire door which forms a lobby as it is equivalent to the same level of critical performance as the wall and door.
- Create improved square metre yield (£m<sup>2</sup>) by turning non-chargeable floor space (lobbies and oversized corridors) into chargeable or rentable space.
- Improve the building living, staying and working environment by removing small protective spaces and compartments.
- Improve interactive fire safety. Fire curtains are intelligent fire safety systems that can interact with your buildings alarm panel or BMS system in a number of different configurations depending on the building fire strategy requirements.

Coopers FireMaster® Fire and Smoke Barriers also provide protection for lifts running through ATRIA.

## THE PERFECT SOLUTION FOR LIFT AND LIFT LOBBY FIRE PROTECTION TO CREATE OPEN PLAN DESIGNS

### PRODUCT ADVANTAGES

- Where a lobby is formed on two sides by lifts then fire and smoke barriers can replace the doors at one or even both ends
- Split drop time delay or double knock can be set to initially act as smoke control in the ceiling space and enable occupants to escape before closing fully
- Where a lobby/corridor is required to form a protected means of escape then virtual fire and smoke walls can be deployed on the alarm, directing the occupants in the right direction
- FireMaster fire and smoke control barriers can be used over individual lift doors or form invisible, cost effective lift lobbies

Fire and Smoke Control curtains for lifts can also have emergency retract buttons turning them into a door or fireman's override if required.



### APPLICATION & FUNCTIONALITY

When nominating a fire curtain over and above a traditional form of fire compartment and smoke control, ask yourself to what level of critical performance the traditional fire compartment performed to; then ask the fire curtain to perform to the same level.

A combination of the following levels of critical performance can be supported by a fire curtain with smoke control:

- Fire integrity (flame)
- Radiance (heat)
- Smoke control (smoke)

Most lifts will be supplied with a fire integrity rating (FD30 or FD60), what the lift door(s) cannot achieve is smoke control equivalent to that of an 'S' rated fire door (BS EN 1634-3) or equivalent fire curtain. This is due to the tolerances to which lift doors are manufactured and operate.

So in effect whether you nominate a fire door or fire curtain you will always (if the lift door has a fire integrity rating) double up on fire integrity performance.

The smoke control element equivalent to an 'S' rated fire door is what needs to be re-instated if nominating a fire curtain. Smoke curtains must not be nominated as an alternative to fire doors or fire curtains.

Note: A smoke curtain tested to BS EN 12101-1 does not perform to the required smoke performance as an 'S' rated fire door or equivalent performing fire curtain tested to BS EN 1634-3.



### QUALITY ASSURANCE AND CERTIFICATION



certifire

### MEMBERSHIP



### CPD ACCREDITATIONS



## CASE STUDY: KNOLLYS HOUSE

LONDON, UK

Coopers Fire installed 9 FireMaster® fire curtains with smoke control over 3 floors in the lift lobbies in Knollys House, a twelve storey office building in Croydon, London.

To remain compliant with fire regulations, it was necessary to protect the lifts and the lift shaft from fire and the spread of smoke to other floors via the lift shaft.

### BENEFITS

- FireMaster® fire curtains with smoke control offer integrity against fire and prevent the spread of smoke to other floors
- Ensure open plan lift lobbies meet with fire regulations
- Allow more rentable space for the landlord of the building to charge occupiers

### KEY INFORMATION

RATING  
E180

PRODUCT STANDARDS  
AS, BS, EN

STANDARDS  
BS 8524-1:2013, BS 476-22.6, BS 5234-2, BS EN 12605, BS EN 13501-2, BS EN 1363-1, BS EN 1363-2, BS EN 1634-1, BS EN 1634-3, BS EN 949

FireMaster fire curtains can be used over individual lift doors or form virtual cost effective lift lobbies. Coopers have completed installations like these throughout the world, and can also supply Lift Lobby Fire Curtains tested to UL 10D with Manual Egress to comply with US regulations and NFPA designs.



### PRODUCT SPECIFICATION

Under BS 8524-1:2013 the Single curtain achieves 180mins (3 hrs) and Overlapping achieves 120mins (2 hrs). FireMaster is classified as E180 EW30 for a Single curtain and E120 EW30 for an Overlapping curtain in accordance with BS EN 13501 2:2007+A1:2009.

The complete system is tested to BS EN 1634-1:2014 and is classified as E180 EW30 for a Single panel curtain and E120 EW30 for an Overlapping panel curtain in accordance with BS EN 13501 2:2007+A1:2009.

The fabrics are additionally tested for fire propagation to BS 476 6:1989+A1:2009 and surface spread of flame to BS 476-7:1997 to achieve National Class '0' in accordance with A13(b) of Approved Document B (Volumes 1 & 2) 2006 Edition 'Fire Safety' to England & Wales Building Regulations 2000.

Our fabrics are high performance fire barrier textiles, woven from a stainless steel wire plied continuous filament glass fibre thread, further protected by a metallic oxide enhanced flame retardant polymer coating. This provides a very high level of resistance to severe conditions, such as temperatures above 1000°C and the related generation of immense heat energy and pressure associated with a fire scenario.

### DON'T BE LIABLE

Fire Curtain Barriers MUST have a 'Total' Fail-Safe by Gravity in the event of total mains, wiring, short circuit and/or system corruption.

Coopers Fire, with their unique patented Total Gravity Fail-Safe (TGFS) system, are the only supplier with Independent Third Party Certification by a UKAS approved certification body to BS 8524-1:2013.

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