

Snag-free fire curtains for commercial and high-rise construction.

Advanced curtain solutions designed for reliability, compliance, and real-world performance.



ABOUT ADEXON:

Adexon designs and manufactures advanced fire and smoke curtain systems for commercial and high-rise building environments.

As part of the Cubex Group, we draw on over 20 years of engineering and manufacturing expertise to deliver fire and smoke curtain solutions that address the reliability and performance limitations of traditional systems.

Our focus is on durability, compliance, and real-world performance — providing tested, certified systems engineered for life.

PRODUCT OVERVIEW: Our Systems

Vertical Fire Curtains
Certified fire protection up to 180 minutes in E, EW and EI classifications for compartmentation when you need it.

Horizontal Fire Curtains
Large-span horizontal protection for atria, voids, and where open-plan design is required between floor levels.

Concertina Curtains
Manufactured for large, open spaces where changes of direction are required and there are no structures for corner posts to fit side-guides.

Smoke Curtains
Engineered smoke-control systems supporting compliant fire-strategy design.

All systems supported by valid third-party testing and certification.



VERTICAL FIRE CURTAINS

Adexon vertical fire curtains deliver up to 180 minutes of certified fire and smoke protection, available in:

Fire:
- Integrity (E) — prevents flame passage
- Integrity & Radiation (EW) — limits radiant heat transfer
- Integrity & Insulation (EI) — limits temperature to 140 degrees

Smoke:
- Sa3 (also known as 'Sa') - three-sided smoke sealing
  (not recommended for fire curtains but still asked for most of the time)
- Sa4 - four-sided smoke sealing performance
  (this is the minimum smoke Classification that should be requested)
- S200 - four-sided smoke sealing performance at 200°C.
  (we strongly recommend this is requested as the spread of fire is often preceded by the spread of hot smoke and gases)

Designed for architectural integration, our systems support complex compartmentation strategies while maintaining clean visual aesthetics and dependable long-term operation.

Typical Applications:
Lift lobbies | Offices | Corridors | Compartmentation | Reception areas | Escape routes



HORIZONTAL FIRE CURTAINS

Our horizontal fire curtain systems protect large horizontal openings, including atria, ceiling voids, and where the architectural design requires open-plan across multiple floors.

Key Capabilities

- Certified E and EW fire performance
- Up to 120 minutes fire protection
- Large-span coverage up to 20m × 10m without support cables, enabling clean architectural integration
- Designed for commercial and public buildings

These systems deploy across open voids to maintain fire compartmentation while preserving design intent.



CONCERTINA CURTAINS

Our Concertina curtains are manufactured for large, open spaces where traditional fire barriers are impractical due to no interim supports for changes of direction.

Key capabilities:

- Automatically deploys in the event of a fire
- Flexible, space-saving solution, easily configured to fit diverse architectural layouts
- Dual-certified for 60-minute smoke protection (EN 12101-1) and 120 minutes fire intergrity (EN 1634-1)

Typical applications:

Spiral/free-standing staircases | Atria | Open staircases | Escalators | Stairwells | Island serveries | Technology hubs



SMOKE CURTAINS

Adexon smoke curtains are engineered to control and contain smoke movement, protecting escape routes and supporting compliant smoke-management strategies.

Performance Highlights:

- 60 or 120 minutes with classification of DA (600 degrees) and DH (1000 degrees)
- Static Smoke Curtains or Active Smoke Curtains (automatic deployment upon alarm activation)
- Designed to channel and contain smoke in large open spaces
- Suitable for malls, atria, transport hubs, shopping centres and commercial buildings

Our smoke curtain systems support safer evacuation and enhanced fire-strategy performance.

PERFORMANCE AND ENGINEERING HIGHLIGHTS:

- **Snag-Free Technology**
  Clean, bolt-free design eliminates common snagging and reliability failures.

- **High-Performance Flexible Bottom Bar**
  Maintains fire and smoke sealing on uneven floors and ramps.

- **S200 Elevated-Temperature Smoke Performance**
  Smoke curtains tested for enhanced performance at higher temperatures.

- **4-Sided Smoke Seal (Sa4)**
  Certified smoke performance across all curtain edges.

- **1000Pa Pressure Performance**
  Engineered to withstand extreme pressure conditions, significantly exceeding typical market benchmarks.

PERFORMANCE AND ENGINEERING HIGHLIGHTS:

- **C2 Cycle Testing (10,000+ Cycles)**
  Durability tested for long-term reliability and extended service life.
- **20m × 10m Horizontal Curtain (No Support Cables)**
  Large span horizontal coverage without supporting cables.
- **20m × 12m Dry EI120 Curtain**
  Market-leading vertical system delivering EI120 performance without sprinklers.
- **Dual-Certified Concertina Curtain**
  Certified for fire (EN 1634-1) and smoke (EN 12101-1) performance.
- **10-Year Warranty**
  Industry-leading warranty reflecting long-term product reliability.

TESTING AND COMPLIANCE:

All Adexon systems are tested to EN 1324:1:2003+A2:2016 in conjunction with EN 16034:2014, supported by valid third-party testing and certification, including:

- EN 1634-1:2014+A1:2018 — Fire resistance
- EN 1634-3:2004 — Smoke leakage
- EN 12101-1:2020 — Smoke control
- EN 13501-2:2023 — Fire classification
- CE / UKCA and Declaration of Performance

Systems are tested as complete installed assemblies, ensuring declared performance reflects real-world installation. All Adexon fire and smoke curtains come with valid third-party certification for the sizes required on-site. This is a mandatory requirement under the EN system for harmonised standards, another safety benefit when compared with the BS system of standards.

CPD FOR ARCHITECTS, ENGINEERS & CONTRACTORS:

Accredited CPD for Architects, Engineers & Contractors

Join over 5,000 industry professionals who have attended our CPD sessions covering:

- Fire vs smoke curtain performance
- Specification considerations and common pitfalls
- Compliance with current EN standards
- Real-world design and installation insights

Scan the QR code to book a CPD session

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Fire curtains, *redefined.*