



PRODUCT DATA SHEET

ESC

Magnetic Elevator Smoke Curtain / Elevator Smoke Containment System

System Overview

The ESC curtain is the cost-effective choice for professional elevator and hoistway door smoke containment protection. ESC creates a code compliant smoke and draft-control assembly when paired with common fire-rated elevator doors.

- Clear transparent fabric curtain with integrated emergency egress on-screen switch.
- Magnetic smoke-sealing system that adheres on ferretic elevator frames or our #430 stainless steel (standard or optional) auxiliary rails.
- From 42" to 100" clear opening sizes designed for all common elevator configurations and manufacturers.
- Curtain activated by fire alarm signal, local smoke detector signal or power loss, with battery backup as a standard feature (batteries not included).
- 120AV supply allowing connection to main and standby power.
- Gravity fail-safe ensures safe and controlled deployment even under total power loss.
- Automatic, mechanical headbox closing system as standard feature.
- Surface mount or recessed into finish ceiling or soffit with ceiling edge support option.
- Powder-coated white as standard feature.



Standards

UL1784

Air leakage tests of door assemblies and other opening protectives by UL 864

UL864

Control units and accessories for fire alarm systems.

UL723

Test for Surface Burning Characteristics of Building Materials and ASTM (E84).

Compliance With

1.

ICC-ES Report - ESR-4888

2.

OSHPD - OPM #0705

3.

CA State Fire Marshal Listing - No. 4076-2347:0002

4.

CA State Fire Marshal Listing - No. 3550-2347:0003

5.

Meets and complies with AC-77

The ESC unit is designed to protect elevator openings and shafts from smoke ingress and migration.

The ESC unit will deploy in the event of a signal from a local smoke detector, from a signal from the fire alarm system or on total power loss to the unit. The system will also supply its own battery backup power for 5 hours if batteries (optional) are connected in the integrated, concealed control unit.

On signal or power loss the integrated UL864 approved releasing device will release the curtain roller and the clear transparent curtain film will safely descend under gravity attaching to the ferretic elevator frame or optional #430 stainless steel auxiliary rails via integrated magnets and making an approved smoke seal per UL1784.

The fabric is clear allowing any elevator user who encountered a deployed curtain to ascertain if egress is safe. Egress can be achieved in two ways:

- 1 Pressing the integrated double-sided egress on-screen button that electronically retracts the curtain temporarily. If a fire alarm signal or local smoke detector signal indicates an ongoing alarm the system will redeploy safely.
- 2 By pushing the edge of the curtain temporarily detaching the magnetic strips from the elevator frame or auxiliary rails.

Once the fire alarm/signal has ceased, the unit will automatically retract into the headbox and the headbox will automatically close, protecting the curtain ready for its next operation and making an aesthetically pleasing closure.

The headbox can be surface mounted above the elevator frame (at any height up to 120") to the bottom of the unit, or concealed in a hard lid or grid ceiling. If installed in a recessed hard lid ceiling, the unit has a supplied ceiling support fixing (optional).

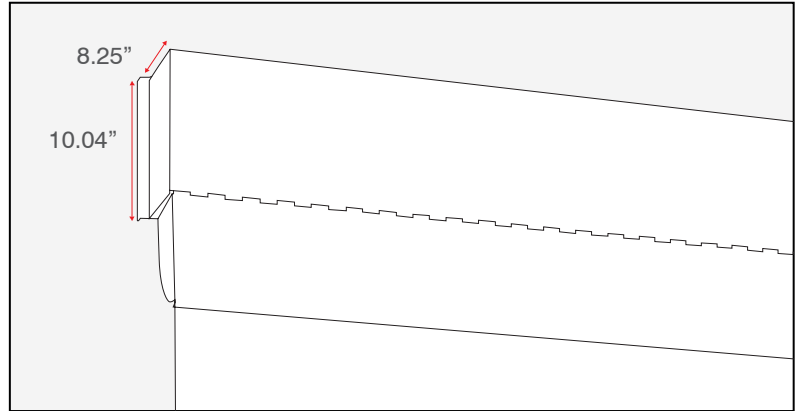


Diagram A

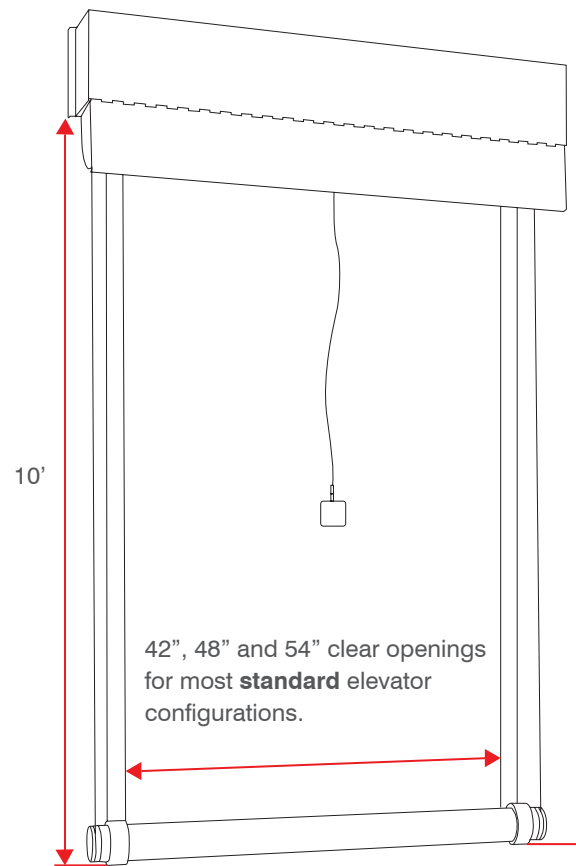


Diagram B



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