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USA 

SMOKE GUARD® system

Models 200/400

Elevator Smoke Curtain



 ICC Evaluation Service Report ESR-1136

System Description. The Smoke Guard system Models 200/400 (M200/M400) create a code compliant smoke- and draft-control assembly when paired with common fire-rated elevator doors. The Smoke Guard DuraNet™ screen assembly consists of a reinforced translucent material connected to flexible magnetic strips. These magnets adhere to either required full-length ferrous metal rails (M200) or the existing ferrous elevator door frame (M400) as the system deploys creating a tight seal. M200/M400 units use standard 120 VAC building power and may be connected to standby power (M400 Battery Option adapts to both 120 VAC and 220 VAC).

Codes and Standards. The M200/M400 systems work in conjunction with fire-rated elevator doors to exceed the NFPA and IBC requirements for a smoke and draft control assembly. This enables the elevator to open directly onto the corridor.

Dimensions

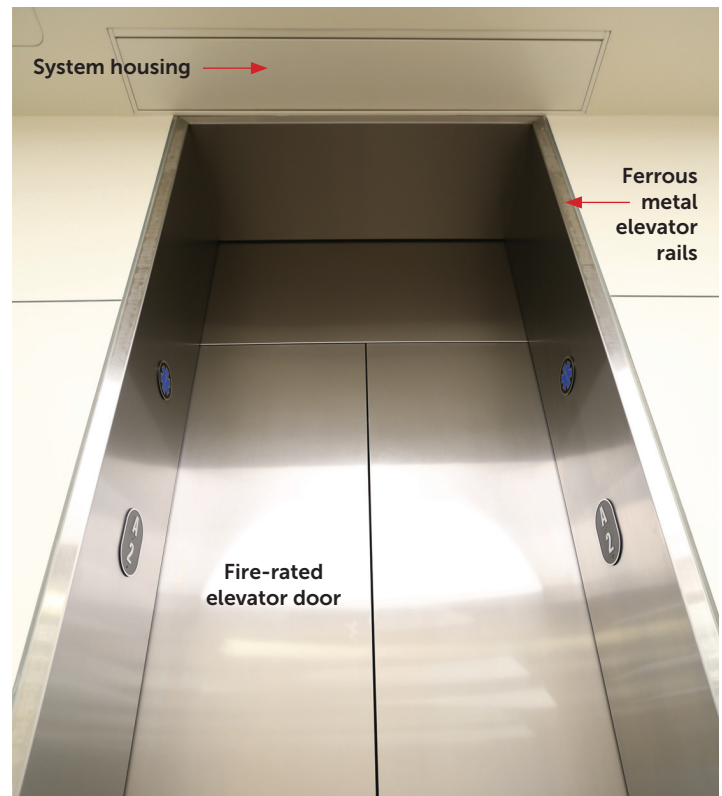
- M200 housing lengths: 55" and 64" only
- M400 housing lengths: up to 60"
- Housing height: 10.5"
- Housing depth: 9" + return depth)
- M200 return depth: 1"
- M400 1/2", 3/4", 1"

Standards

- UL 1784 "Air Leakage Tests of Door Assemblies" without an artificial bottom seal, listed by Intertek
- UL 864 "Control Units for Fire Protective Signaling Systems" listed by Intertek

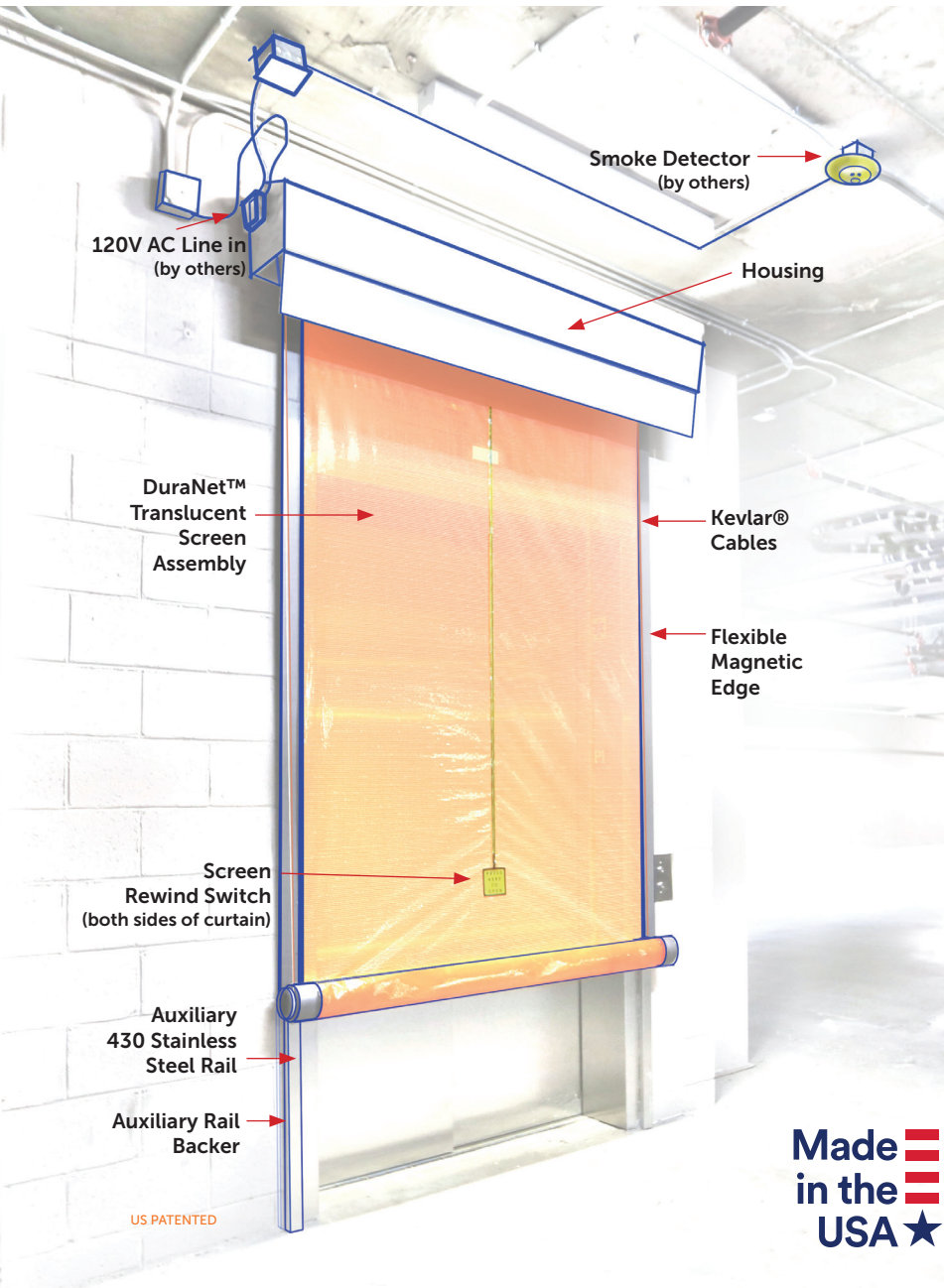
Complies with:

- ICC-ES Report AC77
- 2003 IBC Section 707.14.1
- 2006 IBC Section 707.14.1
- 2009 IBC Section 708.14.1
- 2012 IBC Section 713.14.1
- 2015 IBC Section 3006.1
- NFPA 105 "Installation of Smoke Control Door Assemblies"





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System Operation. Smoke Guard elevator systems are designed to protect elevator openings and shaft from vertical smoke migration. The system will deploy when the smoke detector in the elevator lobby goes into alarm (or on loss of power to the unit). The system is not designed to deploy on general alarm. As the lobby smoke detector goes into alarm, the elevator will automatically return to the recall floor. If an elevator occupant were to encounter a deployed M200/M400, a screen rewind switch located on both sides of the screen will allow for egress. If smoke is still actively being detected, the screen will then redeploy to seal the opening. As power is restored, the screen will automatically rewind into the housing.

Installation. All Smoke Guard units are installed by factory trained and certified personnel. There is minimal preparation work. Installation requires a clear, plumb, unobstructed wall surface above the hoistway door, 120v AC power and a smoke detector.

Fail Safe Secure. M200/M400 systems operate on a fail safe basis, on loss of AC power the screen will deploy. There is a deployment delay on power failure built into the system to avoid nuisance deploys on brief power outage.

Battery Backup. M400 units may be specified with an internal, FCC compliant, battery backup system which allows full operation for up to 8 hours. Contact Smoke Guard for additional power specifications for this enhanced feature. This feature is not available in M200 units.

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Rewind Switch. The Smoke Guard system screen rewind switch may be activated from both sides of the screen. This feature allows elevator occupants to exit from the elevator car using the interior (shaft side) of the switch. The screen will then redeploy after egress, as long as the smoke detector continues to be activated. In the event of power outage, the vertical edge of the curtain can be pushed away from the rail to allow passage with a force less than 15 lbs. as referenced by the ICC.

Listed Releasing Device. The M200/M400 features a releasing device tested in accordance with the UL 864 standard by Intertek Laboratories.

Smoke Guard and Your Project

- Check for clearance/obstructions issues on, above, and surrounding the elevator opening (sprinklers, call buttons, HVAC, etc.)
- Field verify elevator opening measurements prior to ordering systems
- Available 120 VAC (M200/400) and 220 VAC (M400 battery option) circuit with 2 amp capacity per unit
- Fire alarm system has local auxiliary contacts available
- No auxiliary rails: elevator door frame is ferromagnetic