



SMOKE GUARD® system

Model 600

Elevator Smoke Curtain



 ICC Evaluation Service Report ESR-1136

System Description. The Smoke Guard system Model 600 (M600) creates 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. The magnetic strips adhere to ferrous metal elevator door jamb as the system deploys creating a tight seal. The M600 uses standard building power.

Dimensions

- Housing lengths: 55", 64", 73"
- Custom housing lengths available
- Housing height: 9"
- Housing depth: 11" (plus return)
- Return depths: 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"
- ASTM E84 "Standard Test Method for Surface Burning Characteristics of Building Materials"

Complies with:

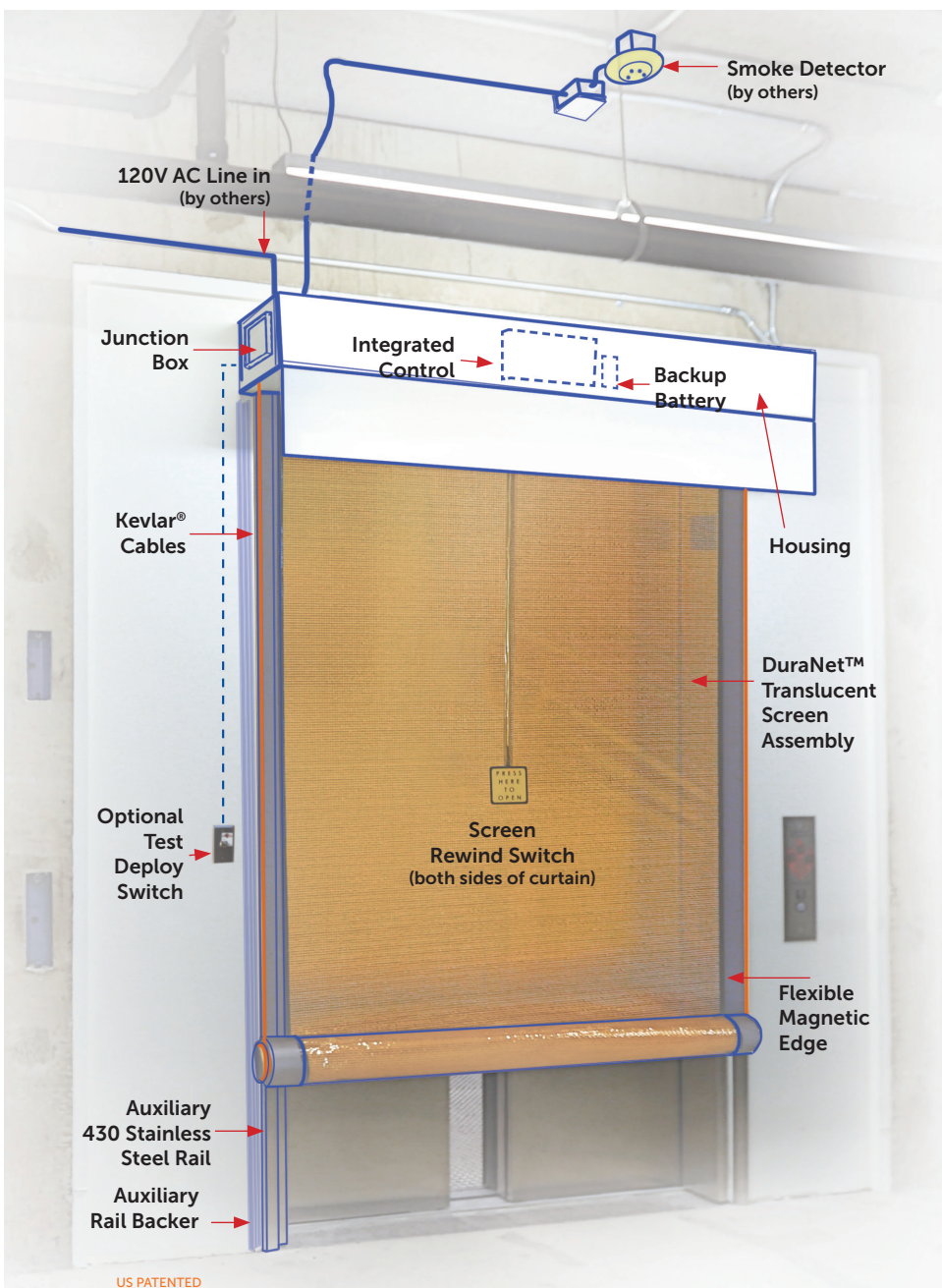
- ICC-ES Report AC77
- 2009 IBC Section 708.14.1
- 2012 IBC Section 713.14.1
- 2015 IBC Section 3006.1
- 2018 IBC Section 3006.1
- 2013 ASME/2016 ASME A 17.1
- NFPA 105 "Installation of Smoke Control Door Assemblies"

Codes and Standards. The M600 works in conjunction with the 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, eliminating the need for additional doors at the elevator constructed lobby space.





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System Operation. The Smoke Guard system will deploy when the smoke detector in front of the elevator opening goes into alarm. The system is not designed to deploy on general alarm. If an elevator occupant were to encounter a deployed **M600**, a screen rewind switch located on both sides of the screen allows for egress. If AC power is lost, the Smoke Guard system **M600** operates on a fail safe basis, triggering screen deployment. A deployment delay is built into the system to avoid nuisance deploys on brief power outage. As power is restored, the screen will automatically rewind into the housing.

Unit Dimensions. The **M600** is available in standard screen sizes which will cover openings up to an 8' clear opening. Curtains greater than 78 1/4" (clear opening width + 2 1/4") are certified by a report. Performance information on these larger curtains is available upon request.

Installation. All Smoke Guard units are installed by factory recognized 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.

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 circuit with 5 amp capacity per unit
- ☐ Fire alarm system has local auxiliary contacts available
- ☐ No auxiliary rails: elevator door frame is ferromagnetic

Releasing Device. Contained within the unit housing the **M600** control is tested in accordance with the UL 864 standard by Intertek Laboratories.

System Monitoring. The unit control monitors several system functions including presence of AC power, battery backup condition, system deploy status, and the continuity of all system circuits. The **M600** is a dedicated smoke control device (NFPA 92 A & B) compatible with optional UUKL controls.

Battery Backup. The **M600** unit operates on standard 120 V AC building power. In addition, **M600** has a battery backup system.

External Indicators. External indicators display if a fault is detected. System warnings include partial curtain deployment and blinking LED status indicator lights on the housing frame to aid building maintenance personnel in easily diagnosing system faults.

Object Sensing. If the curtain senses an object in its path the system will redeploy after the obstruction is removed.