



**SMOKE GUARD®** *system*

## Model 2100 Elevator

### Opening Protective

 ICC Evaluation Service Report ESR-1136\*

#### Dimensions

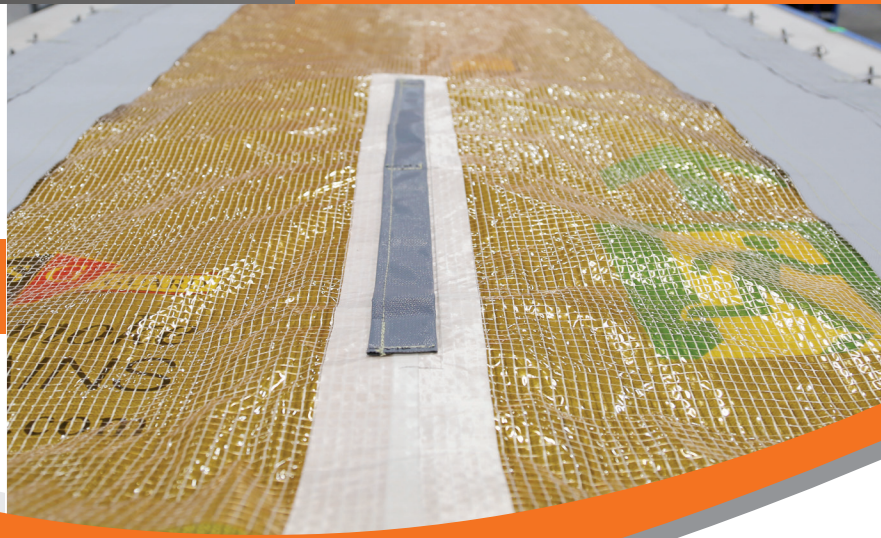
- Openings:  $\leq 10'$  wide by  $\leq 10'$  tall\*
- Housing height:  $6 \frac{3}{8}"$
- Housing depth:  $6 \frac{1}{4}"$
- \* Minimum height for DuraNet+ screen material is  $7' 8"$  tall

#### Standards

- NFPA 105 "Installation of Smoke Control Door Assemblies"
- NFPA 80 "Standards for Fire Doors and Other Opening Protectives"
- NFPA 252 "Standard Methods of Fire Tests of Door Assemblies" (20 minute) listed by Intertek
- UL 10B "Fire Tests of Door Assemblies" (20 minute without hose stream) listed by Intertek
- UL 10C "Positive Pressure Fire Tests of Door Assemblies" (20 minute without hose stream) listed by Intertek
- UL 10D "Fire Tests for Fire Protective Curtains" (2 hours) listed by Intertek
- UL 864 "Control Units for Fire Protective Signaling Systems" listed by Intertek
- UL 1784 "Air Leakage Tests of Door Assemblies" listed by Intertek
- ASTM E84 "Standard Test Method for Surface Burning Characteristics of Building Materials"

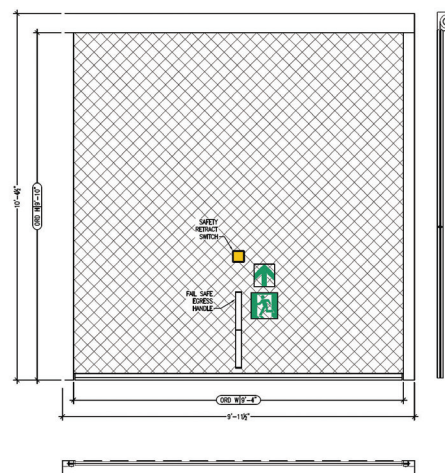
#### Complies with:

- 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"



**System Description.** The Smoke Guard system **Model 2100 Elevator (M2100 Elevator)** creates a code-compliant smoke- and draft-control assembly when paired with common fire-rated elevator doors. The screen assembly may be specified in the standard smoke-rated DuraNet+™ reinforced translucent material connected to flexible smoke-rated fabric sides. Fire-rated material may be specified as well. A lift strap located on both sides of the curtain enables manual egress. The curtain is captured vertically by a side guide assembly and is equipped with a bottom bar to seal the curtain at the floors. **M2100 Elevator** comes in a standard galvanized finish. RAL color options are available. May be field painted to spec.

**Codes and Standards.** The **M2100 Elevator** 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.



\* ESR - final report from Intertek pending publication



## Model 2100 Elevator Opening Protective



**System Operation.** The system is deployed on an alarm signal from the local smoke detector. The system is not designed to deploy on general alarm. System power requirement is 120-volt AC, the controls include a universal power supply that can be adapted to foreign electrical current requirements. The unit is also equipped with a battery back-up system that is maintained by the electronic controls, this system prevents nuisance deploys on brief power outages. When required, the system can also be connected to building standby power. If an elevator occupant were to encounter a deployed **M2100 Elevator**, the curtain can be retracted with either the on-screen curtain retraction switch or by manually lifting the curtain with the lift strap.

**Installation.** The system is typically mounted above the ceiling, anchoring above or on to a header assembly supported from the deck above. It may also be mounted to a wall. The side guides are secured to the wall on either side of the opening and may be surface mounted or embedded for smooth finish walls. All Smoke Guard system units are installed by factory recognized installation personnel. Preparation work required by others is outlined in the product specification. Installation requires clear, plumb, unobstructed wall surfaces for mounting the side guides, 120v AC power and a local smoke detector.

**Fail Safe Features.** The **M2100 Egress** is a gravity fail safe system with manual egress via curtain lift strap. The **M2100 Egress** control monitors system status and features a fault report to indicate that the system requires a corrective action.

**Releasing Device.** The **M2100 Egress** control has been tested in accordance with the UL 864 standard and listed by Intertek Labs.

**Options.** Upgrades such as an on-screen curtain retraction switch and bottom bar edge sensor may be added to system when configuring. Consult your local SG representative. AC77 compliance requires either an on-screen or wall mounted curtain retract switch.

### 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 120/220 VAC circuit with 7/3.5 amp capacity per controller
- ☐ Fire alarm system has local auxiliary contacts available
- ☐ Confirm suitable backing for housing and guides

