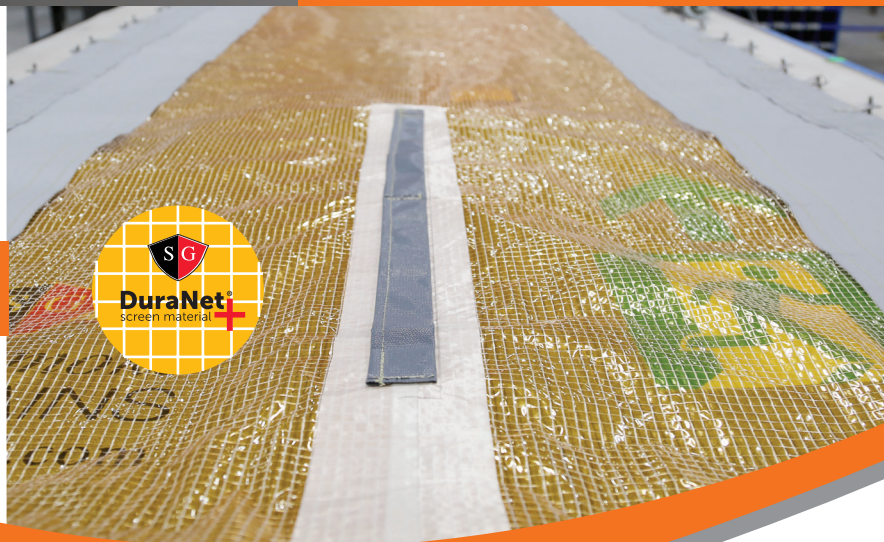




SMOKE GUARD® system

Model 2100 Elevator Elevator Smoke Curtain



ICC Evaluation Service Report ESR-1136

System Description. The Smoke Guard system **Model 2100 Elevator (M2100E)** creates a code-compliant smoke- and draft-control assembly when paired with common fire-rated elevator doors. The smoke-rated DuraNet+™ curtain consists of a reinforced translucent material connected to flexible fire-rated textile sides. *A 2-hour fire-rated curtain may be specified as well.* A lift strap located on both sides of the curtain enables manual egress by any occupant without the use of electrical power. The curtain is captured vertically by side guide assemblies and is equipped with a bottom bar to seal the curtain at the floors. **M2100 Elevator** comes in a standard galvanized finish. Available galvanized (standard) or with a custom RAL powder coat finish.

Clear Opening Sizes

- Openings up to 10'-0"W x 10'-0"H

Housing Dimensions

- Housing height: 6³/₈"H x 6¹/₄"D

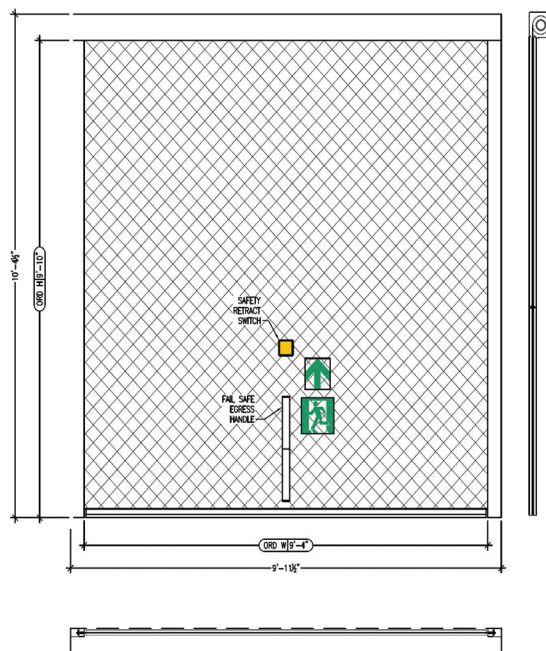
Standards

- UL 1784 "Air Leakage Tests of Door Assemblies" and Other Opening Protectives" 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 (ESR-1136)
- IBC Section 3006 (2024/2021/2018/2015)
- IBC Section 713.14.1 (2012) Elevator Lobbies and Hoistway Opening Protection
- ASME A17.1/CSA B44 Safety Code for Elevators
- ICC/ANSI A117.1 Standard for Accessibility (ADA Accessible)
- NFPA 105 "Installation of Smoke Control Door Assemblies"

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.

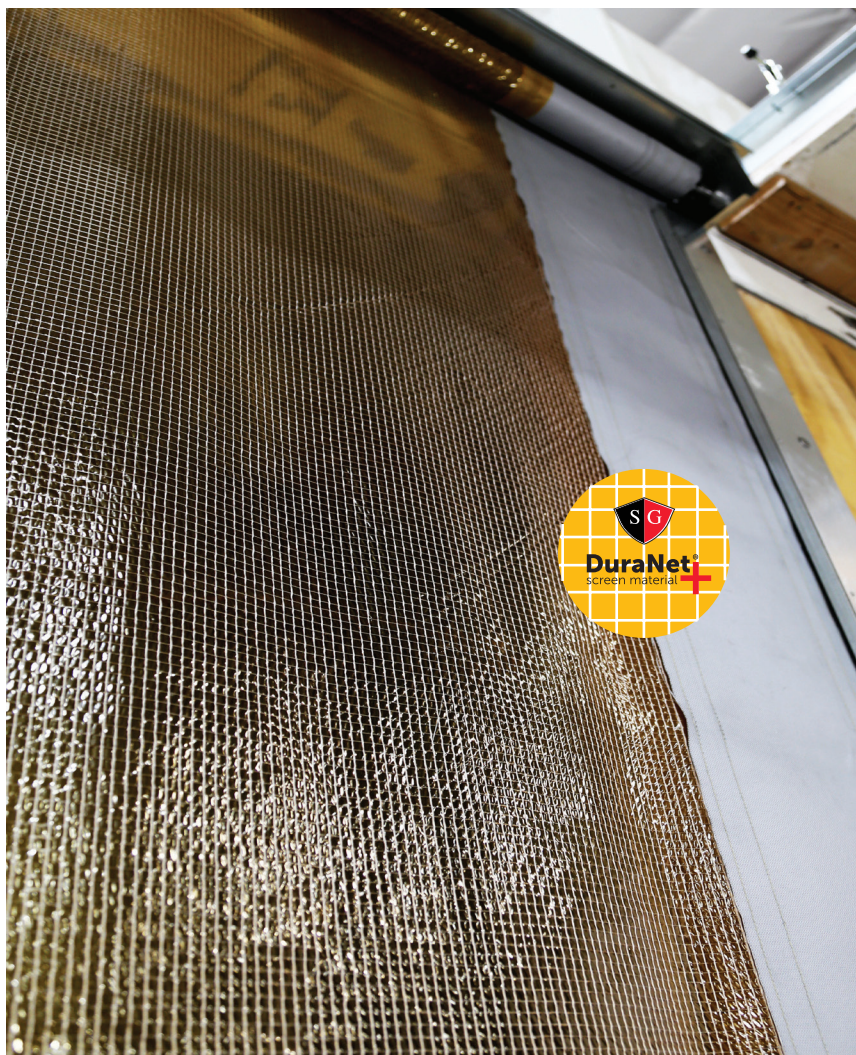


Designed, Assembled, and Tested in the USA





Model 2100 Elevator Opening Protective



Designed, 
Assembled and
Tested in the USA ★

Fail-Safe Features. The **M2100 Elevator** is a gravity fail safe system featuring easy, manual egress via a lift strap on both sides of the curtain. The control unit monitors the state of curtain deployment, and it features both visual and audible fault-reporting to indicate when a corrective action is required.

Releasing Device. The **M2100 Elevator** control has been tested in accordance with the UL 864 standard and listed by Intertek Laboratories. Electrical power requirement is 120/240VAC.

Optional Obstruction-Sensing Edge. Sensors may be added which span the width of the bottom bar to detect any obstructions during deployment. This ensures the safety and effectiveness of the system to remain operational in the event that obstructions are present.

System Operation. The system is deployed on an alarm signal from the local smoke detector or from a fire control panel. The unit is equipped with a 12VDC battery back-up system that is maintained by the electronic controls. When required, the system can also be connected to building standby power. The controls include a universal power supply that can be adapted to foreign electrical current requirements. 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 anchored flush or above the ceiling, mounted to a header or assembly as required. The vertical side guides can be wall-mounted or recessed as required. All Smoke Guard systems are installed by factory recognized installation technicians. Preparation of the opening and related work by others shall be performed in accordance with the system design and listing as outlined in the product data. Opening surfaces shall be level, plumb, and unobstructed for the installation of the head box and side guides accordingly. The AC power supply, alarm activation device, wiring, and all final connections shall be by others. System alarm activation is typically by local 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 120/240VAC circuit with 7/3.5A capacity per controller
- ☐ Fire alarm system has local auxiliary contacts available
- ☐ Confirm suitable backing for housing and guides