SMOKE GUARD® *system*

Model 2500 Egress

Vertical Fire + Smoke Curtains

System Description. The Smoke Guard system **Model 2500 Egress (M2500 Egress)** is a code compliant fire and smoke-rated assembly designed to protect openings as an element of a smoke control system. The **M2500 Egress** consists of a fire + smoke-rated fabric curtain assembly mounted within a steel housing. The curtain is captured vertically on both sides by curtain loops secured by guide rods. The guide rods are attached by side guides anchored to the side walls. This specialized curtain assembly is equipped with a split curtain access for manual egress per ICC AC77. A bottom bar seals the curtain at the floor. **M2500 Egress** comes standard in a galvanized finish, with RAL color options also available.

Housing
- 11.75" high by 10.5" deep

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

Code References
- 2012/2015/2018/2021/2024 IBC Section 909
- 2009/2012/2015 IBC Section 716.5.3
- 2018/2021/2024 IBC Section 716.2.2.1

Codes and Standards. **M2500 Egress** fulfills IBC requirements to provide an opening protective, where these assemblies are permitted as passive barriers used in conjunction with smoke control systems. This fire + smoke-rated curtain system can serve as opening protective in corridors and applications in atrium construction where egress is needed.

Designed, Assembled, and Tested in the USA

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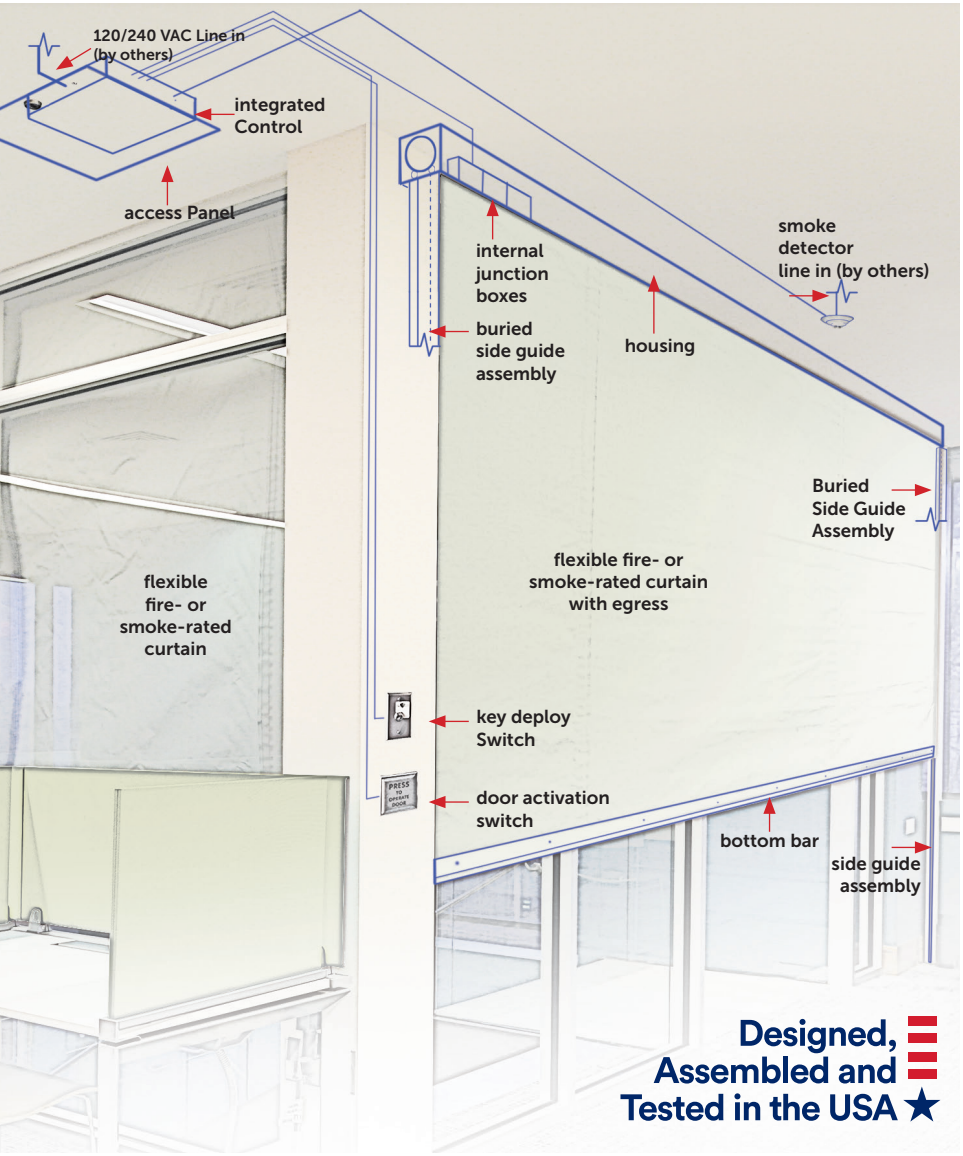

Fail Safe Features. The **M2500 Egress** is a gravity fail safe system. The **M2500 Egress** also features a fault report to indicate that the system requires a corrective action. This control also monitors the state of curtain deployment. An optional bottom bar sensing edge may be mounted to the curtain to guard against obstructions during deployment.

Listed Releasing Device. The **M2500 Egress** control has been tested in accordance with the UL 864 standard and listed by Intertek Laboratories. It also has a full interface to the fire service interface system (FSCS) as an option for dedicated smoke control.

Door Activiation Switch. The door activation switch may be mounted on opposite sides of the opening. If the system remains in alarm, and the door activation switch is engaged, the system will retract to allow passage and then redeploy after a brief pause. When the alarm clears the curtain automatically retracts to the ready position.

System Operation. The system is deployed upon a signal from the local smoke detection system or from a smoke control panel. System power requirement is 120/240 VAC. The unit is also equipped with a 24VDC 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.

Installation. The system is typically mounted above the ceiling. It anchors to the ceiling 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 walls on either side of the opening and may be surface mounted or embedded for smooth finish walls. All Smoke Guard system units are to be 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, 120/240 VAC power and, should local smoke detection be required, a smoke detector.

Smoke Guard and Your Project

- ☐ Check for clearance/obstructions issues on, above, and surrounding the opening (sprinklers, HVAC, etc.)
- ☐ Field verify opening measurements prior to ordering systems
- ☐ Single motor units require a 120/240 VAC with a 10 amp circuit per unit
- ☐ Install the system control in visual proximity of the unit for servicing ease
- ☐ Provide a level and plumb smoke or fire-rated mounting surface to attach to per building code requirements.

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