

Model 2500 | fire + smoke curtain w/egress



DIMENSIONS

- drop lengths ≤12': housings are 10.25" high by 9" deep
- drop lengths >12' housings are 11.75" high by 10.5" deep

STANDARDS

- UL 10B "Fire Tests of Door Assemblies" (20 min.) listed by Intertek
- UL 10C "Positive Pressure Fire Tests of Door Assemblies" (20 min.) listed by Intertek
- UL 10D "Fire Tests for Fire Protective Curtains" (up to 2 hr.) 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

- 2006/2009/2012 IBC Section 909
- 2009 IBC Section 711.5.2
- 2012 IBC Section 710.5.2.2
- NFPA 105 "Installation of Smoke Control Door Assemblies"
- NFPA 252 "Standard Methods of Fire Tests of Door Assemblies" (20 minute)

System Description. The Smoke Guard system Model 2500 | Fire + Smoke (M2500|FS) vertical curtain is a code compliant fire and smoke-rated assembly designed to protect openings as an element of a smoke control system. The M2500|FS consists of a rated textile 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. The curtain assembly is equipped with a bottom bar to seal the curtain at the bottom and optional bottom bar safety edge to detect obstructions to the deploying screen. This specialized curtain assembly can be specified with an optional split curtain access for manual egress per ICC AC77. M2500|FS comes in a standard galvanized finish. RAL color options are available.

Codes and Standards. M2500|FS 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 for counter tops, openings in corridor, and certain applications in atrium construction.

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-volt AC. The unit is also equipped with a 24-volt DC 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, 120v AC power and, should local smoke detection be required, a smoke detector.

