

SMOKE GUARD® system

Model 2100 | fire + smoke curtain



DIMENSIONS

- openings: ≤ 16' wide by ≤ 12' tall
- housing height: 6.25"
- housing depth: 6"

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 2100|Fire + Smoke curtain (M2100|FS) is a code compliant fire-rated assembly that is designed to protect openings as a component of the smoke control system. The M2100|FS consists of a fire-rated fabric curtain assembly mounted within a steel housing. The curtain is captured vertically on both sides by a side guide assembly. The curtain assembly is equipped with a bottom bar to seal the curtain at the bottom. M2100|FS comes in a standard galvanized finish. RAL color options are available.

Codes and Standards. M2100|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 walls, and certain applications in atrium construction.

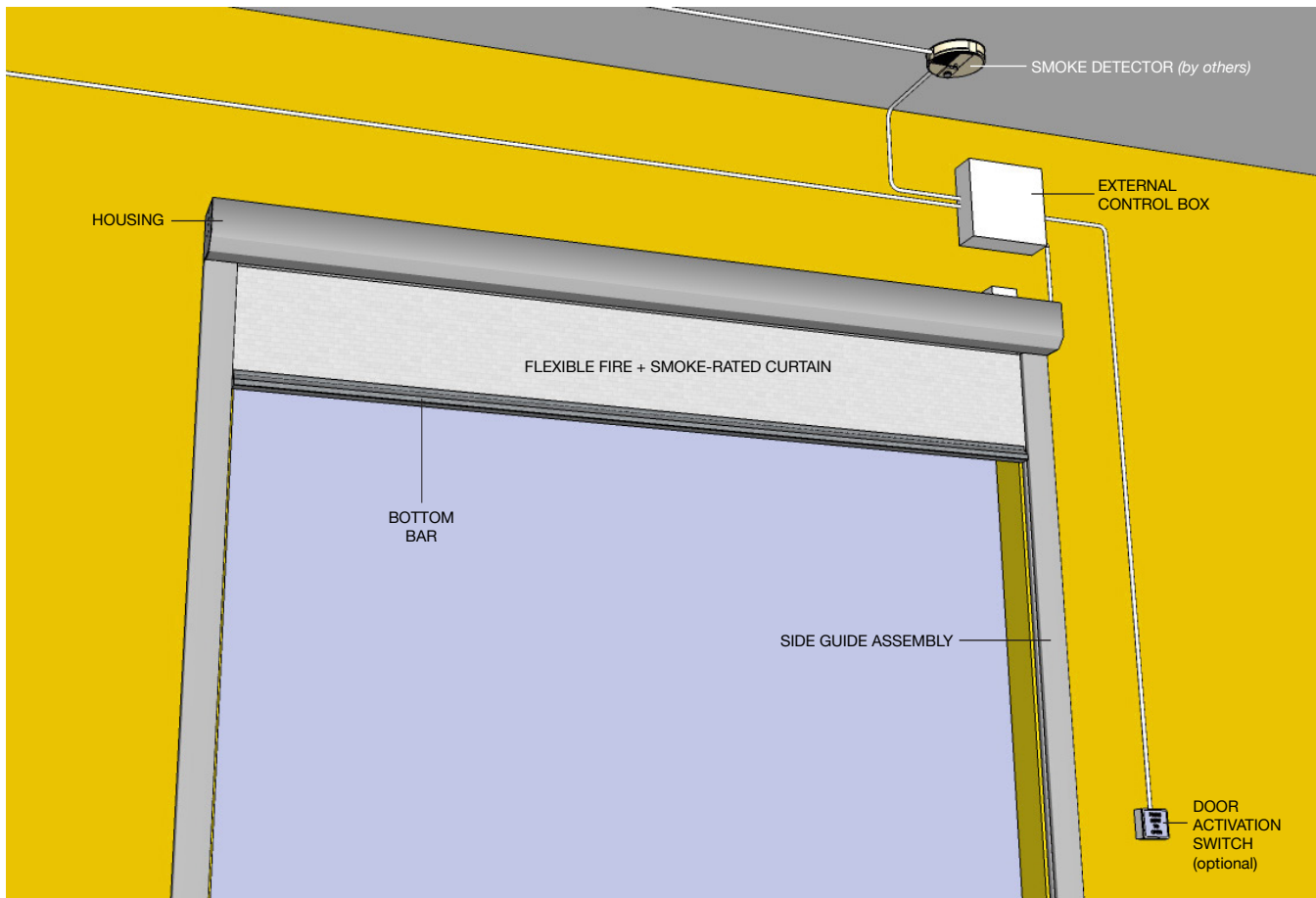
System Operation. The system is deployed upon a signal from the local smoke detection system or from a smoke control panel. System power requirement is 120-volt AC. The unit is also equipped with a 24-volt DC battery back-up system that is maintained by the electronic controls. When required the system 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.



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Fail Safe Features. The M2100|FS is a gravity fail safe system. The M2100|FS also features a fault report to indicate that the system requires a corrective action. The control unit monitors the state of curtain deployment.

Listed Releasing Device. The M2100|FS 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 Activation 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.



fire+smoke
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