Smoke Curtain
Model 2100

Euro Systems®

Design with Passion

System Description

Euro Systems 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 backup 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 Euro Systems 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.

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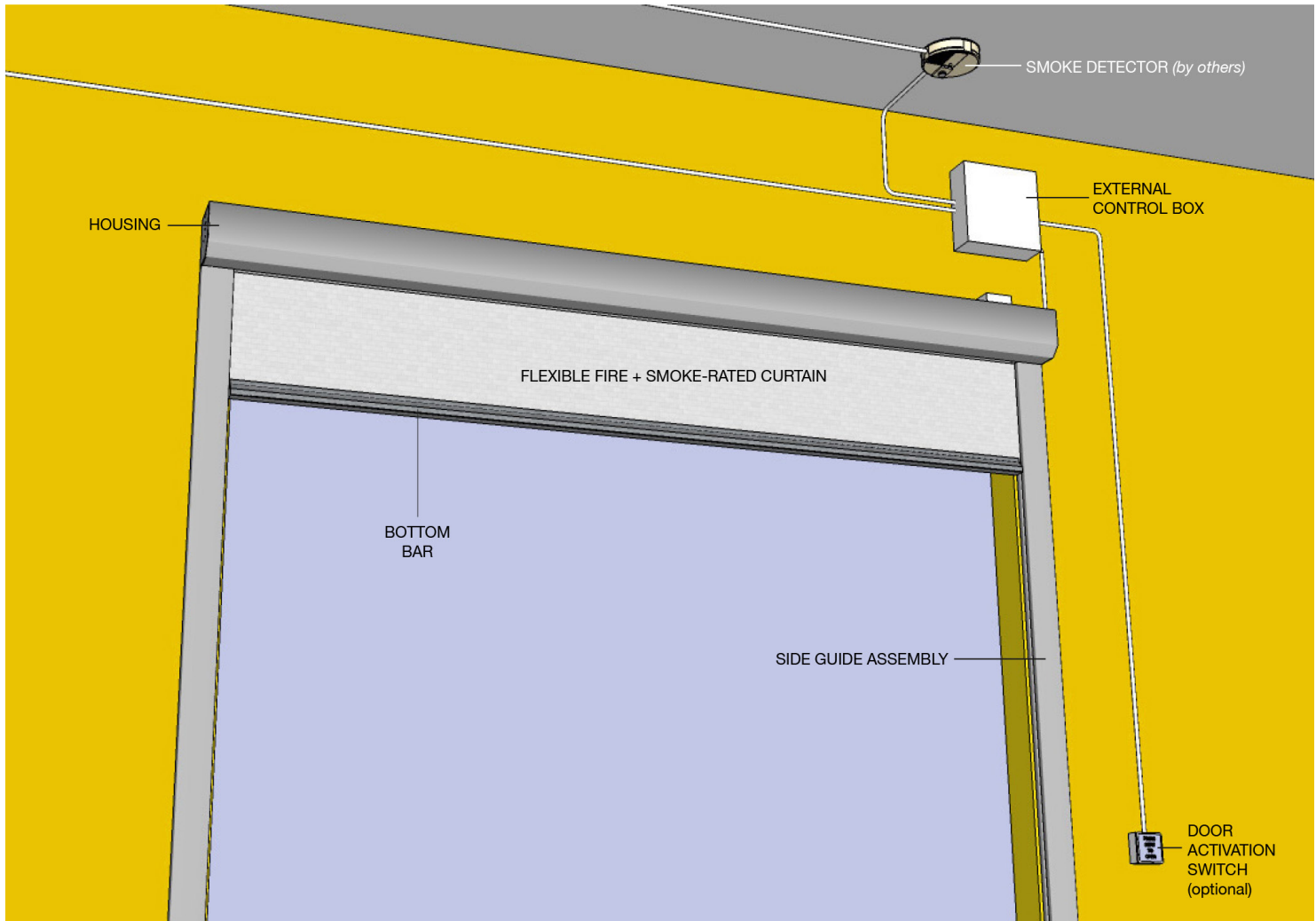- housing height: 6.25"
- housing depth: 6

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 ofDoor 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)

SMOKE DETECTOR *(by others)*

EXTERNAL CONTROL BOX

HOUSING

FLEXIBLE FIRE + SMOKE-RATED CURTAIN

BOTTOM BAR

SIDE GUIDE ASSEMBLY

DOOR ACTIVATION SWITCH (optional)

Fail Safe Secure

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 Activiation Switch

The door activiation 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.

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