

SMOKE GUARD® system

Model 1500

M1500 PHYSICAL PROPERTIES

air leakage

TEST STANDARD: UL 1784 and IBC 2003 §715.3.3; IBC 2006 §715.4.3.1

TEST PARAMETERS: max. allowable is 3 cfm/sf @ 0.1 inch wg @ 72° F and 400° F or 382 cfm for a 11.58' x 11' opening

TEST RESULTS ACHIEVED: air leakage of .14 cfm/sf opening or 17.8 cfm for a 11.58' x 11' opening

air leakage

TEST STANDARD: NFPA 105

TEST PARAMETERS: max. allowable is 3 cfm/sf @ up to 0.3 inch wg @ 400° F or 382 cfm for a 11.58' x 11' opening

TEST RESULTS ACHIEVED: air leakage less than .38 cfm/sf opening at .3 inch or 48.4 cfm for a 11.58' x 11' opening

flammability standards

TEST STANDARD: ASTM E 84

TEST PARAMETERS:

flame spread < 25

smoke generation < 50

TEST RESULTS ACHIEVED: M1500 curtain material exceeds Class A building building product standards

flame spread index = 0

smoke generated = 0

System Description. The Smoke Guard system Model 1500 (M1500) is a code compliant smoke and draft control assembly that is designed to protect openings in smoke rated construction. The M1500 consists of a smoke rated curtain coated with a para-aramid material contained in a housing above the ceiling. The curtain is secured vertically on both sides by curtain loops secured by guide rods. Guide rods thread through guide rails anchored to the side walls. The curtain assembly is equipped with a bottom bar to seal the curtain at the bottom and provide edge sensing to detect obstructions to the deploying screen. The system is typically mounted above the ceiling and anchored to a box beam or other wall assembly extending from the deck above. The side guides are secured to the walls on either side of the opening.

Codes and Standards. M1500 works in conjunction with IBC requirements to provide an opening protective for smoke rated construction, where smoke-and draft-control assemblies are called for in the prescriptive requirements. This allows for the construction of smoke rated enclosed elevator lobbies, protection counter top windows in smoke rated walls, and certain smoke rated applications in atrium construction.

System Operation. The system is deployed upon a signal from the local smoke detection system located in the elevator lobby, corridor or atrium being protected. As many as four M1500 units can be connected in parallel to one smoke detector and end of the line terminator. System deployment and retraction are powered by 120-volt AC power. The unit is also equipped with a 24-volt DC battery back-up system that is recharged from 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.

Unit Dimensions. The M1500 is available in custom curtain widths to protect openings from six feet to twelve feet wide with a maximum height of up to twelve feet. Consult smokeguard.com or your local Smoke Guard distributor for detailed information on this product.

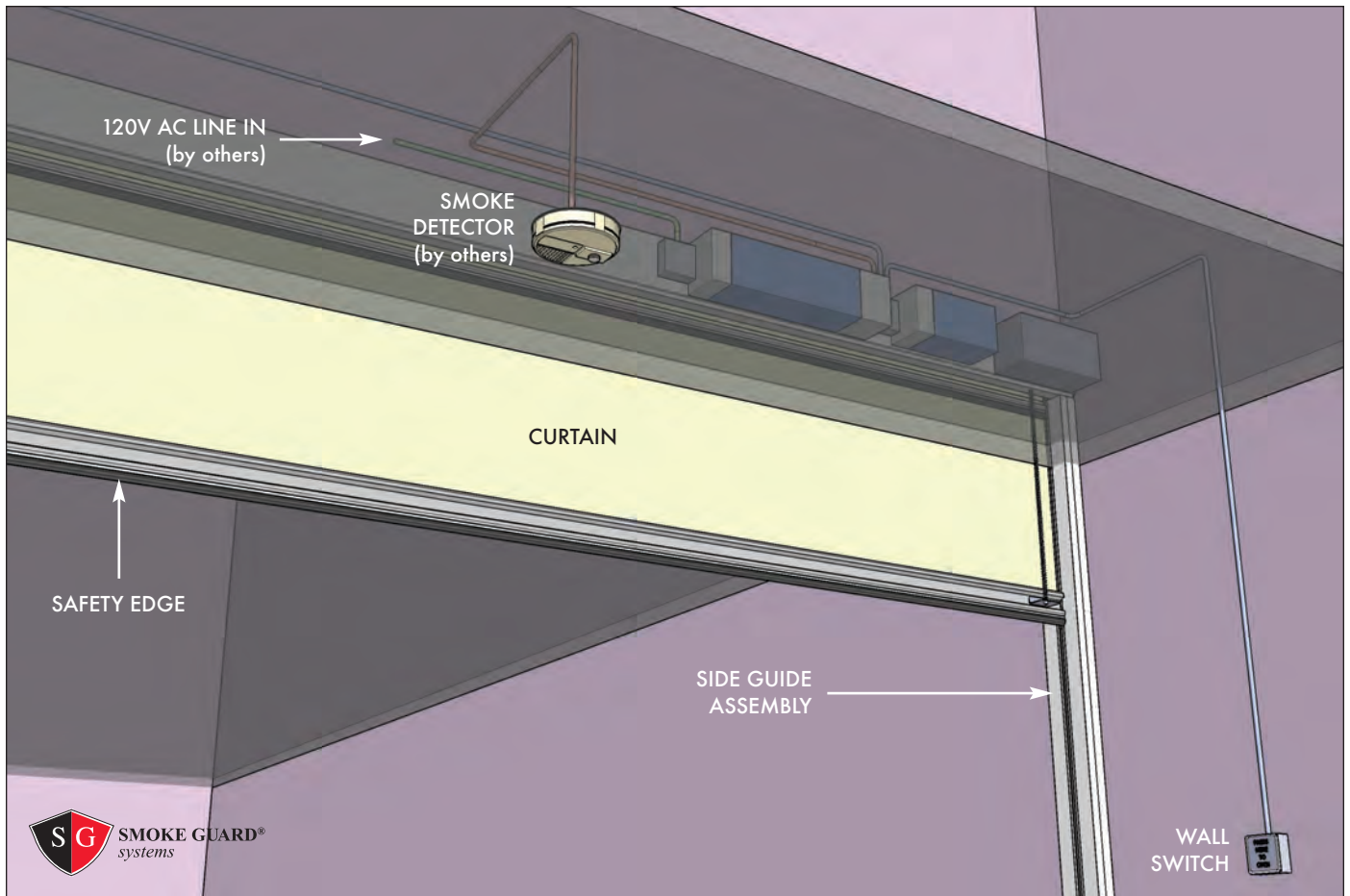
Installation. All Smoke Guard system units are to be installed by factory recognized installation personnel. Preparation work required by others is outlined in the product specification. Installation requires clear, plumb, unobstructed wall surfaces for mounting the housing and side guides, 120v AC power and a UL 268 conforming smoke detector.

Smoke Guard systems meet or exceed the requirements of:

- UL 1784 "Air Leakage Tests of Door Assemblies"
- UL 864 "Control Units for Fire Protective Signaling Systems"
- ICC Evaluation Service Report ESR-1136 (pending)
- 2000 International Building Code Section 714.2.3
- 2003 International Building Code 715.3.3
- 2006 International Building Code Section 715.4.3
- NFPA 105 "Installation of Smoke Control Door Assemblies"

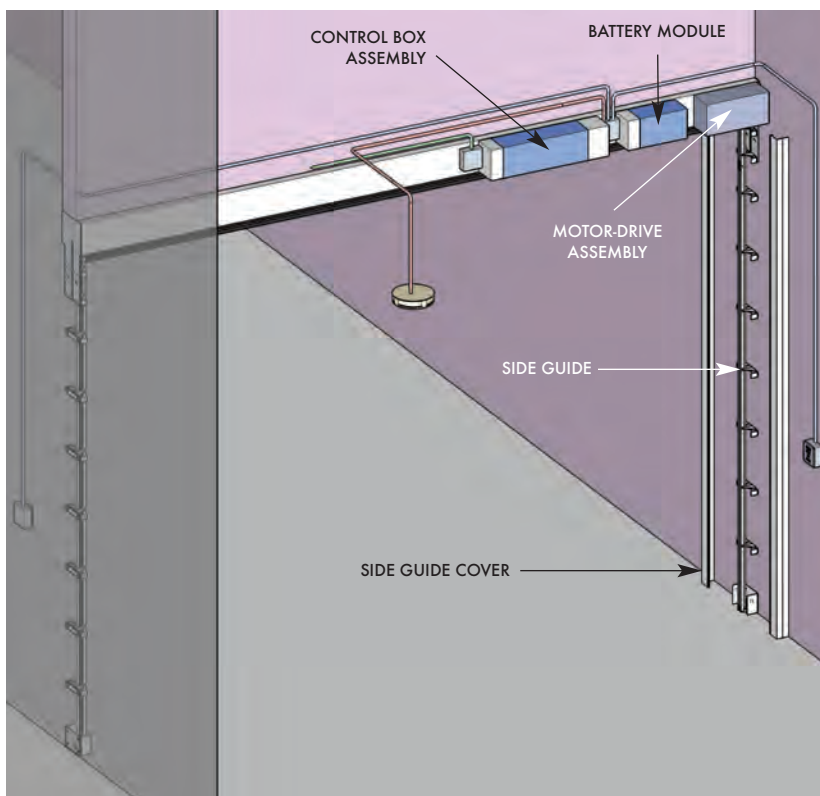


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US PATENTS PENDING

SMOKE GUARD® *system* Model 1500



Fail Safe Features. The M1500 has several fail safe features built in to the system. The M1500 also features a fault deploy to indicate that the system requires a corrective action. There are fault identification LEDs located on the control box which indicates system status and battery monitoring. This unit also monitors the state of curtain deployment.

A safety edge is mounted to the bottom bar of the curtain to guard against obstructions during deployment and ensure maximum deployment.

Listed Releasing Device. The M1500 control box has been tested in accordance with the UL 864 standard.

Egress. Two wall switches mounted on opposing walls beside the unit enable egress. The curtain will redeploy after egress if the system is still in alarm. When the alarm clears the curtain automatically retracts to the ready position.