



SMOKE GUARD® system

Hose Stream 2100

Vertical Fire + Smoke Curtain



System Description. The Smoke Guard Hose Stream 2100 (HS2100) is a code-compliant, listed fire shutter system, designed to protect openings in all rated wall types (including fire walls, fire barriers and smoke barriers). HS2100 meets air leakage requirements of UL 1784 and the fire endurance and hose stream of UL 10B. It consists of dual steel-reinforced textile curtain assemblies housed within paired steel housings suited for overhead or face mounting at the wall opening. Vertical steel guide tracks capture the curtains as the system deploys, and a pair of bottom bars seal to the floor upon deployment. Removable front and bottom housing cover plates offer easy access for installation and service. Available in a standard galvanized or optional RAL powder coat finish.

Clear Opening Sizes

- Openings up to 12'-0"W x 12'-0"H

Housing Dimensions

- 6 $\frac{3}{8}$ "H x 6 $\frac{1}{4}$ "D

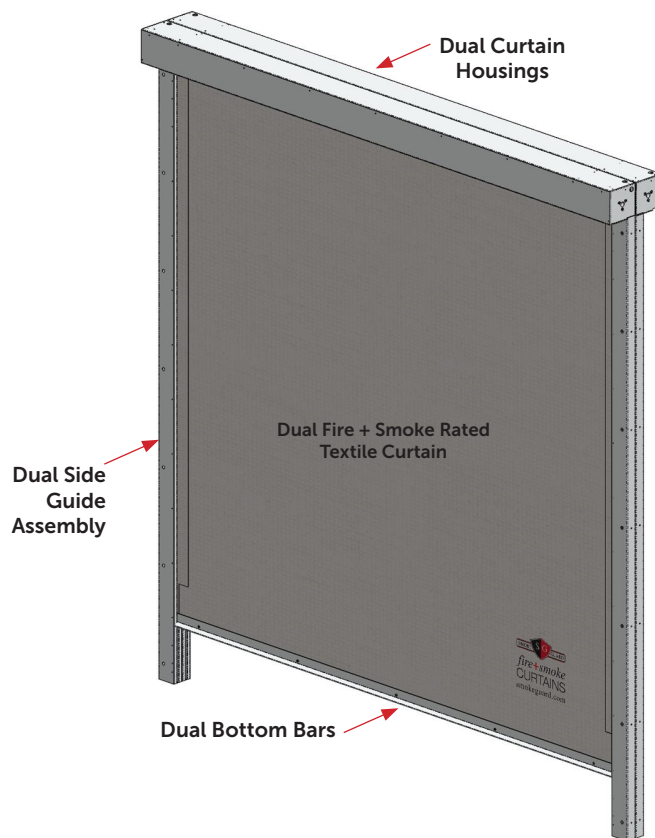
Standards

- 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" (90 minute) listed by Intertek
- UL 10B "Fire Tests of Door Assemblies" (90 minute with Hose Stream) listed by Intertek
- CAN/ULC-S104 (90 minute with Hose Stream) listed by Intertek
- UL 864 "Control Units for Fire Protective Signaling Systems" listed by Intertek
- ANSI / UL 1784 "Air Leakage Tests of Door Assemblies" (tested without an artificial bottom seal) listed by Intertek

Code References

- 2009/2012/2015/2018/2021/2024 IBC Section 909
- 2009/2012/2015 IBC Section 716.5.3
- 2018/2021 IBC Section 716.2.2.1
- 2009/2012/2015/2018/2021/2024 IBC Section 706.8, 707.6, 708.6, 709.5
- 2009/2012/2015/2018/2021/2024 IBC Section 3007.6.3

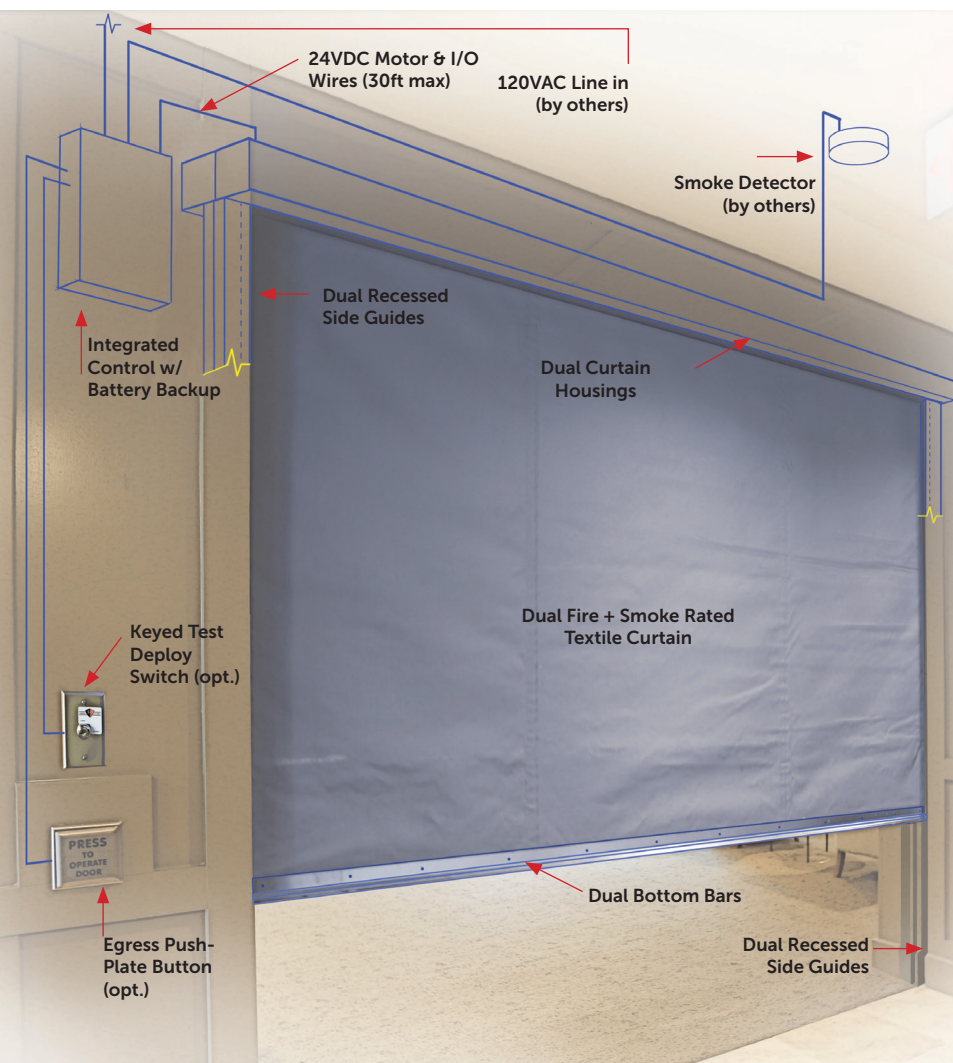
Codes and Standards. HS2100 fulfills IBC requirements for an opening protective in any wall, whether a requirement for fire protection, smoke protection, or both. This fire + smoke-rated curtain system can serve as an opening protective in rated occupancy separation walls, fire service access elevator lobby doors, fire-rated corridors, exit access passageways, atrium protection, and more.



Designed, Assembled, and Tested in the USA



Vertical Opening Protective



Listed Releasing Device. The HS2100 control has been tested in accordance with the UL 864 standard and listed by Intertek Laboratories.

Optional Egress Buttons. Wall-mounted egress push-plate buttons may be installed on either or both sides of the system to offer electronically-enabled egress for occupants or first responders. If the system is in alarm state when an egress button is depressed, the curtains will retract to allow passage, then redeploy after a brief pause. The curtains will automatically retract to the ready position when the alarm clears.

Optional Obstruction-Sensing Edge. Sensors may be added which span the width of each bottom bar to detect any obstructions during deployment. This ensures the safety and effectiveness of the system to remain operational in the event that obstructions are present.

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System Operation. The system is deployed on an alarm signal from the local smoke detector, heat detector, or from a fire control panel. Electrical power requirement is 120/240VAC. 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 international electrical requirements.

Installation. The system is typically anchored above the ceiling, mounted to a rated header or wall assembly as required. The vertical side guides can be wall-mounted or recessed as required. All Smoke Guard systems are installed by factory recognized installation technicians. Preparation of the opening and related work by others shall be performed in accordance with the system design and listing as outlined in the product data. Opening surfaces shall be level, plumb, and unobstructed for the installation of the headbox and side guides accordingly. The AC power supply, alarm activation device, wiring, and all final connections shall be by others. System alarm activation is typically by local smoke detector.

Fail-Safe Features. The HS2100 is a gravity fail-safe system - upon total loss of electrical power (including battery power) the curtain will fully deploy to the floor. The control unit monitors the state of curtain deployment, and it features both visual and audible fault-reporting to indicate when a corrective action is required.

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
- ☐ Available 120/240VAC circuit with 20/10A capacity respectively
- ☐ Fire alarm system has normally open auxiliary contacts available
- ☐ Confirm suitable backing for housings and side guides