**Section 08 3493 AUTOMATIC overhead coiling fabric Fire and smoke Curtain with egress**

# General

## Summary

### Section Includes:

#### Fire alarm or smoke detector-activated, overhead coiling fabric fire and smoke curtain with egress.

#### Self-closing without auxiliary power.

#### For complex, large and small protected openings.

### Related Requirements:

#### 08 3100−Access Panels.

#### 09 2200− Load bearing header framing

#### 09 9100−Paint: Field painting of specified components.

#### 28 3000−Detection and Alarm: Provision of smoke detectors.

#### Division 26 Sections for 120VAC (10-amp service with disconnect) control circuit power including conduit, boxes, conductors, wiring devices, and emergency power.

## References

### NFPA Codes and Standards:

#### 70 − National Electrical Code.

#### 72 – National Fire Alarm Code -2007, 2010 and 2013.

#### ASTM - E84 - Test Method for Surface Burning Characteristics of Building Materials.

### UL Standards:

#### 268 − Smoke detectors for fire protective signaling systems.

#### 864 − Control units for fire protective signaling systems including FSCS control.

#### 10D – Fire test for fire resistant curtains.

#### 10B – Fire test for fire assemblies

#### 10C – Fire test for fire assemblies

#### 1784 – Air leakage test.

## SUSTAINABLE DESIGN REQUIREMENTS

### LEED-NC: Comply with Section 01 8100 sustainable design requirements including, without limitation, submittal and documentation requirements.

### Credit/Point Goals Applicable to This Section: In addition to global project credit/point goals:

#### Materials & Resources - construction waste management

#### Materials & Resources - recycled content

#### Materials & Resources - regional materials

#### Indoor Environmental Quality - construction IAQ management plan

## submittals

### Comply with Section 01 3300−Submittal Procedures:

#### Product data.

#### Shop drawings:

##### Include opening dimensions.

##### Show and identify related work performed under other sections of the specifications.

#### Quality Assurance/Control Submittals:

##### Certifications.

##### Manufacturer’s installation instructions and testing procedures.

## closeout submittals

### Comply with Section 01 7700−Project Closeout:

#### Operation and maintenance manual.

#### Manufacturer’s warranty.

## Quality Assurance

### Certifications:

#### ETL Listing to UL standards:

##### 864 - Control units for fire protective signaling systems including FSCS controls.

##### 268 - Smoke detectors for fire protective signaling systems.

##### 10D - Fire test for fire resistant curtains.

##### 1784 – Air leakage test.

### Pre-Installation Meeting:

#### Schedule and convene a pre-installation meeting prior to commencement of field operations with representatives of the following in attendance: Owner, Architect, General Contractor, fire curtain sub-contractor, and electrical sub-contractor.

#### Review substrate conditions, requirements of related work, installation instructions, storage and handling procedures, and protection measures.

#### Document the responsibilities of various parties and deviations from specifications and installation instructions.

## Delivery, Storage, and Handling

### Comply with Section 01 6600−Delivery, Storage, and Handling.

### Comply with manufacturer’s instructions.

## Warranty

### Provide manufacturer’s standard one-year warranty.

### Maintenance and Testing:

#### Perform minimum annual maintenance and testing on each fire and smoke curtain as required by the manufacturer’s warranty, code agency evaluation reports, and as required by local authority having jurisdiction.

#### Provide test documentation.

# Products

## ManufactureD units

### Model M2500E

#### Smoke Guard, Inc.

#### Distributed by Smoke Guard, 287 N. Maple Grove, Boise, Idaho 83704 [www.smokeguard.com/](http://www.smokeguard.com/)

### Label each fire curtain with following information:

#### Manufacturer’s name.

#### Label of quality control agency.

## Performance / DESIGN CRITERIA

### Test normal and fire operation: Curtain to deploy on activation of building fire alarm system signal or test key switch. Curtain shall descend by failsafe gravity deploy and rewind by motor drive.

#### Raise curtain after test and after fire alarm is cleared.

#### Reset curtain after test or operation of unit using key switch. No manual reset required. No service call needed. No replacement parts needed.

### System testing to 1,000 cycles.

## Components

### Curtain Fabric: Glass fiber material with stainless steel wire reinforcement that is coated on one or both sides with polyurethane.

#### Fire Rating: 120 minutes.

### Side Guide Assembly: Manufacturers standard steel side guide assembly wall or jamb mounted.

### Housing/Bearing Type: Enclosed housing to accommodate either standard or bearing support.

### Bottom Bar: Fabricated steel and weighted per curtain width and height to provide for self-closing by gravity.

### Rewind Motor:

#### Tubular motor with time delay and fail-safe gravity deploy operation.

#### 24 VDC.

### Egress Flap: Manufacturer’s standard integrated swinging fabric flap with overlapping design to maintain fire and smoke rating. The swinging egress flap shall be readily operable from the egress side without the use of a key, tool, special knowledge or effort and shall comply with opening force requirements as outlined in accordance with the current edition of the International Building Code (IBC).

### Control System:

#### Comply with UL Standard 864 including FSCS controls.

#### Battery backup supplied with the controls.

#### Two-stage deploy capable.

#### Up to 2-hour time delay safety deploy on power loss.

#### 120 VAC power

### Finishes:

#### Manufacturer’s standard galvanized finish. Optional finishes available at extra cost including: field painting, stainless steel or powder coat.

## fabrication

### Installation Configuration: Housing attached directly to wall.

### Fabricate and install mounting brackets, hardware, and fasteners needed to attach fire curtain and smoke curtain assembly to building structure.

# Execution

## Examination

### Examine substrates upon which work will be installed.

#### Verify related work performed under other sections is complete and in accordance with shop drawings.

#### Verify wall surfaces are acceptable for installation of fire and smoke curtain system components.

### Coordinate with responsible entity to perform corrective work on unsatisfactory substrates.

### Coordinate electrical interface and connection with Division 26.

### Coordinate interface and connection with fire and alarm system including FSCS controls.

### Commencement of work by installer is acceptance of substrate.

## INSTALLATION

### Install fire and smoke curtain system components in accordance with manufacturer’s installation instructions.

## Field Quality Control

### Field Test: Follow manufacturer’s cycle test procedures.

#### Notify Owner’s Representative, local Fire Marshal and alarm sub-contractor minimum one week in advance of scheduled testing.

#### Complete maintenance service record.

## Demonstration

### Demonstrate required testing and maintenance procedures to Owner’s Representative.

End of Section