

SECTION 08 3494

AUTOMATIC HORIZONTAL COILING FABRIC FIRE BARRIER

PART 1 - GENERAL

1.01 SUMMARY

- A. Section Includes:
 - 1. Smoke detector-activated, ceiling mounted, horizontal coiling fabric fire barrier.
 - 2. Self-closing without auxiliary power.
 - 3. For ceiling application at horizontal protected openings.
- B. Related Requirements:
 - 1. 08 3100–Access Panels.
 - 2. 09 2200– Load Bearing Header Framing
 - 3. 09 9100–Paint: Field painting of specified components.
 - 4. 28 3000–Detection and Alarm: Provision of smoke detectors.
 - 5. Division 26 Sections for 240V and control circuit power including conduit, boxes, conductors, wiring devices, and emergency power.

1.02 REFERENCES

- A. NFPA Codes and Standards:
 - 1. 70 – National Electrical Code.
 - 2. 72 – National Fire Alarm Code-2002 and 2007.
- B. UL Standards:
 - 1. 268 – Smoke Detectors for Fire Protective Signaling Systems.
 - 2. 864 – Control Units for Fire Protective Signaling Systems.

1.03 SUSTAINABLE DESIGN REQUIREMENTS

- A. LEED-NC: Comply with Section 01 8100 Sustainable Design Requirements including, without limitation, submittal and documentation requirements.
- B. Credit/Point Goals Applicable To This Section: In addition to global Project credit/point goals:
 - 1. Materials & Resources - Construction Waste Management
 - 2. Materials & Resources - Recycled Content
 - 3. Materials & Resources - Regional Materials
 - 4. Indoor Environmental Quality - Construction IAQ Management Plan

1.04 SUBMITTALS

- A. Comply with Section 01 3300–Submittal Procedures:
 - 1. Product Data.
 - 2. Shop Drawings:
 - a. Include opening dimensions.
 - b. Show and identify related work performed under other sections of the specifications.

3. Quality Assurance/Control Submittals:
 - a. Certifications.
 - b. Manufacturer's installation instructions and testing procedures.

1.05 CLOSEOUT SUBMITTALS

- A. Comply with Section 01 7700–Project Closeout:
 1. Operation and Maintenance Manual.
 2. Manufacturer's Warranty

1.06 QUALITY ASSURANCE

- A. Certifications:
 1. UL864 / UL10 B / UL 10 D / ASTM E 84 / OSHPD CA Certificate
- B. Pre-Installation Meeting:
 1. 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 barrier system sub-contractor, and electrical sub-contractor.
 2. Review substrate conditions, requirements of related work, installation instructions, storage and handling procedures, and protection measures.
 3. Document responsibilities of various parties and deviations from specifications and installation instructions.

1.07 DELIVERY, STORAGE, AND HANDLING

- A. Comply with Section 01 6600–Delivery, Storage, and Handling.
- B. Comply with manufacturer's instructions.

1.08 WARRANTY

- A. Provide manufacturer's standard one year warranty.
- B. Maintenance and Testing:
 1. Perform minimum semi-annual maintenance and testing on each smoke containment system as required by the manufacturer's warranty, code agency evaluation reports, and as required by local authority having jurisdiction.
 2. Backup Battery: Tested per the Operation and Maintenance Manual.
 3. Provide test documentation.

PART 2 - PRODUCTS

2.01 MANUFACTURED UNITS

- A. Stoebich Fire Curtain H (Duplex).
- B. Manufacturer:
 1. Stoebich Fire Protection,
As distributed by Overhead Door Company of Portland; 503-252-5111
- C. Label each fire barrier system with following information:
 1. Manufacturer's name.
 2. Label of quality control agency.

2.02 PERFORMANCE / DESIGN CRITERIA

- A. Test Operation and Fire Operation: Motorized opening and closing, emergency power supply is requested, controlled by building fire alarm system signal and test switch.
 - 1. Raise Curtain after Test and After Fire Alarm: Power operated motor in roller.
 - 2. Reset After Test and After Fire Alarm: Automatic. No service call needed. No replacement parts needed.
- B. Maximum Opening Sizes (feet):
 - 1. 66 wide x up to 32 drop.

2.03 COMPONENTS

- A. Curtain Fabric: Glass filament fabrics of glass fiber material coated on one side with a polyester polyurethane latex, with steel wire reinforcement and tensioning ropes at 5 feet on center.
 - 1. Protex 1100.1
 - 2. Rating: E120, 120 minutes fire rating.
- B. Side Guide Assembly: Manufacturer's standard.
- C. Casing/Bearing Type: Floating bearing.
- D. Bottom Bar/Feeding Edge: Manufacturer's standard.
- E. Closing System:
 - 1. Tubular type, motorized operation. Emergency power supply is required.
 - 2. 208-240V AC.
- F. Control System:
 - 1. Comply with UL Standard No. 864.
 - 2. RZ7 with battery backup.
Hold open time 45minutes (RZ7).
- G. Finishes:
 - 1. Galvanized, field finished as noted.

2.04 FABRICATION

- A. Installation Configuration: Casing attached directly to ceiling above opening.
- B. Fabricate and install mounting brackets, hardware, and fasteners needed to attach curtain assembly to building structure.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Examine substrates upon which work will be installed.
 - 1. Verify related work performed under other sections is complete and in accordance with Shop Drawings.
 - 2. Verify wall surfaces are acceptable for installation of smoke containment system components.

- B. Coordinate with responsible entity to perform corrective work on unsatisfactory substrates.
- C. Coordinate electrical interface and connection with Division 26.
- D. Coordinate interface and connection with fire alarm system.
- E. Commencement of work by installer is acceptance of substrate.

3.02 INSTALLATION

- A. Install fire barrier system components in accordance with manufacturer's installation instructions.

3.03 FIELD QUALITY CONTROL

- A. Field Test: Follow manufacturer's cycle test procedures.
 - 1. Notify Owner's Representative, local Fire Marshal and alarm sub-contractor minimum one week in advance of scheduled testing.
 - 2. Complete maintenance service record.

3.04 DEMONSTRATION

- A. Demonstrate required testing and maintenance procedures to Owner's Representative.
- B. Screen Replacement Notice: Inform Owner's Representative that smoke containment screen requires replacement following exposure to temperatures exceeding 200 degrees F.

END OF SECTION