

SECTION 08 3480**AUTOMATIC CURVED SMOKE BARRIER****PART 1 - GENERAL****1.01 SUMMARY**

- A. Section Includes:
 - 1. Smoke detector-activated, overhead coiling fabric smoke barrier closure for complex large and small protected openings.
 - 2. Self-closing without auxiliary power.
 - 3. Provide no side guides at pressurized systems.
- 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 240 V 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 / 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 Smoke Curtain C
- B. Manufacturer:
 - 1. Stoebich Fire Protection,
As distributed by Overhead Door Company of Portland; 503-252-5111

- C. Label each smoke 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: By gravity, 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. Width: 984 feet
 2. Drop: 13 feet.
 3. Minimum radius for curved shape: 13 feet by full 13 feet 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.
1. Modutex 600
 2. Rating: D120, 120 minute assembly (stands 1112°F over 120 minutes)
- B. Side Guides (Pressure resistant assembly): System has no side guides

See manufacturer's literature for other types of side guides.

- C. Casing/Bearing Type: The textile surfaces are piled stored on the completion modul.

See manufacturer's literature for other types of casing assemblies.

Bottom Bar: Self-leveling for large widths.

- D. Rewind Motor:
1. Tubular type, Gravigen motor, fail safe operation.
 2. 208-240V AC.
- E. Control System:
1. Comply with UL Standard No. 864.
 2. RZ7 or RZ8 with battery backup.
Hold open time 3 minutes (RZ8) and 45 minutes (RZ7).
- F. Escape Door [Optional]:
1. For ground level exit through smoke barrier.

Confirm need for escape door or delete.

- G. Finishes:

1. Galvanized, field finished as noted.

2.04 FABRICATION

- A. Installation Configuration: Casing attached directly to substrate above opening.

See manufacturer's literature for alternate types of casing attachments.

- B. Fabricate and install mounting brackets, hardware, and fasteners needed to attach fire barrier 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 smoke 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