SECTION 08 33 94

Horizontal coiling fabric Fire curtains

1. GENERAL
   1. Section Includes
      1. Fire-Protective Curtain Assemblies for Horizontal Applications.
   2. Related Sections

[Specifier Notes]: Remove sections not required under project scope of work.

* + 1. Section 28 30 00 – Detection and Alarms.
  1. Administrative Requirements
     1. Coordination:
        1. Coordinate with Owner or Owner’s representative regarding network configuration and estimated throughput utilization prior to performing network connections.
     2. Sequencing / Scheduling: Provide to Owner or Owner’s representative a schedule and list of participants required to attend coordination and progress update meetings.

[Specifier Notes] – Retain only those individuals required to be in attendance for progress meetings. Delete the entire following sub-paragraph if not required.

* + - 1. Owner representative(s).
      2. General Contractor.
      3. Project Manager.
      4. Manufacturer’s Representative.
      5. Project Architect.
      6. Project Engineer.
  1. Coordination
     1. Coordinate fire curtain assemblies with power, signal, fire-alarm, and smoke-detection systems specified in Division 26 and Division 28.
     2. Coordinate fire-protective curtain assemblies with ceilings for operational clearances and maintenance access requirements.
     3. Coordinate fire-protective curtain assemblies with walls, ceilings, and floors for support requirements, rating continuity, and recessed fixtures.
     4. Coordinate requirements for metal supports required for fire-protective curtain assemblies.
  2. Informational Submittals
     1. Submit under provisions of Section 01 30 00.
     2. Product Data: Manufacturer's product information and data sheets for each product specified in this section, including:
        1. Substrate preparation instructions and recommendations
        2. Installation means and methods.
        3. Recommendations and requirements for proper storage and handling.
     3. Shop Drawings:
        1. Submit Manufacturer’s approved shop drawings detailing the section and elevation views of each product to be installed.
        2. Coordinate with locations listed on Contract Drawings.
     4. Warranty Information:
        1. Submit confirmation and details of manufacturer’s warranty, extended warranty, and replacement policies.
  3. Closeout SUBMITTALS
     1. Operation and Maintenance Data: For fire-protective curtain assemblies to include in emergency, operation, and maintenance manuals.
     2. Field quality-control reports for required testing.
  4. QUALITY ASSURANCE
     1. Qualifications:
        1. Manufacturer: Minimum of seven (7) years experience in manufacturing fire-protective curtain assemblies at a facility in the United States that have been successfully installed in compliance with requirements of authorities having jurisdiction.
        2. Installers: An entity that employs installers and supervisors who are trained and approved by manufacturer for both installation and maintenance of units required for this Project.
  5. Delivery, Storage and Handling
     1. Deliver, store and handle materials and products in accordance with the manufacturer's instructions and recommendations and industry standards.
     2. Store all materials in the manufacturer’s original packaging until ready for installation. Protect all products from damage or exposure to adverse weather conditions.
  6. Project Conditions
     1. Prior to fabrication, verify that dimensions are consistent with those found in the construction drawings. Where discrepancies exist, confirm the proper dimensions with the Architect before proceeding with work.
  7. WARRANTY
     1. Manufacturer Warranty: Provide manufacturer’s warranty covering parts and labor costs to repair or replace part that fail to perform.
        1. Warranty Period: Parts and labor warranty for 12 months from date of Substantial Completion or date of purchase, whichever comes first.

1. Products

* 1. MANUFACTURERS

[Specifier Notes] – Retain the following Paragraph if this document is a PROPRIETARY Specification, with Avigilon’s products listed as the Basis of Design. Delete if not required.

* + 1. Basis of Design Manufacturer: Smoke Guard, A CSW Industrials Company.
       1. Address: 287 N. Maple Grove, Boise, ID 83704.
       2. Phone: (800) 574-0330.
       3. Website: https://smokeguard.com

[Specifier Notes] – Retain the following Paragraph if this document is written as a PERFORMANCE specification, without listing a manufacturer as a basis of design. Insert manufacturers that sell products comparable to those specified in this section. Delete if not required.

* + 1. Manufacturer List:
       1. Manufacturer:
    2. Substitution Limitations:
       1. Submit substitution requests in accordance with provisions of Section 01 60 00.
       2. Single manufacturer will provide, from a single source, a fully integrated fire-protective assembly consisting of fire-protective curtains and the following components:

[Specifier Notes] – From the following paragraphs, retain only those defined under the scope of work for this project.

* + - * 1. Fire-Protective Curtain Operators.
        2. Fire-Protective Curtain Controls.
  1. PERFORMANCE REQUIREMENTS
     1. Fire-Protective Curtain Assemblies: Listed and labeled by qualified testing agency, for fire-protection ratings indicated, based on testing at as close to neutral pressure as possible in accordance with UL 10D.
        1. Oversize Rated Curtain Assemblies: For units exceeding sizes of tested assemblies, provide certification by a qualified testing agency that curtain assemblies comply with standard construction requirements for tested and labeled fire-rated curtain assemblies, except for size.
        2. Fire-Resistance Ratings: Comply with the following; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
           1. NFPA 252 Rating: 20 minutes.
           2. UL 10B Rating: 20 minutes (without hose stream test).
           3. UL 10C Rating: 20 minutes (without hose stream test).
           4. UL 10D Rating: 2 hours.
     2. Curtain Materials: Provide manufacturer’s standard multi-layer glass fiber fabric coated on one or both sides complying with each of the following:
        1. Fire-Test-Response Characteristics: Provide products that pass NFPA 701, as determined by testing of fabrics that were treated using treatment-application method intended for use for this Project by a testing and inspecting agency acceptable to authorities having jurisdiction.
     3. Roller: Cold-formed steel tube conforming to ASTM A500/A500M.
     4. Curtain Attachment: Manufacturer’s side guides formed from galvanized-steel sheet conforming to ASTM A653/A653M with integral pressure-retaining guide rod pockets.
     5. Housing Type: Sheet metal housings containing support rollers and associated electronics.
        1. Coordinate operator wiring requirements and electrical characteristics with building electrical system.
     6. Operation: Motor driven deployment fail-safe by battery backup with motorized rewind. Curtain deploys on activation of one of the following:

[Specifier Notes] – Retain subparagraphs one and three. Retain subparagraph two to suit Project.

* + - 1. Local Smoke Detector.
      2. Building Fire Alarm.
      3. Testing Key Switch.
    1. Control System: Labelled as defined by UL864.
       1. Motor Operator: Provide factory-assembled electric operation system of size and capacity recommended by curtain manufacturer for assembly specified, with electric motors and factory-prewired motor controls, control devices, and accessories required for proper operation.
       2. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
       3. Battery Backup: Manufacturer's standard battery backup sized for motor power requirements.
  1. Fire-PROTECTIVE CURTAIN ASSEMBLIES for perimeter applications.
     1. Alarm-activated fabric fire curtain assembly complying with NFPA 92.

[Specifier Notes] – Retain the following Paragraph if the specification is meant to be proprietary to Smoke Guard products. Delete if a performance-based specification is required.

* + - 1. Basis of Design Product: Model 3000, by Smoke Guard, a CSW Industrials Company.
      2. Maximum Opening Size: 20 feet wide by 30 feet long (6.10 by 9.14m).
      3. Fabricate and install mounting brackets, hardware, and fasteners needed to attach curtain assembly to building structure.

1. EXECUTION
   1. EXAMINATION
      1. 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 and elevator door frames are acceptable for installation of smoke containment system components.
      2. Coordinate with responsible entity to perform corrective work on unsatisfactory substrates.
      3. Proceed with installation only after unsatisfactory conditions have been corrected.
      4. Verify that locations of concealed reinforcements have been clearly marked for the installer.
      5. Locate reinforcement points and clearly mark their locations if not already done.
   2. PREPARATION
      1. Clean surfaces prior to installation.
      2. Prepare surfaces as recommended by the manufacturer for achieving optimal results.
   3. INSTALLATION
      1. Install in accordance with manufacturer’s current installation instructions and industry recognized best practices.
      2. Install in accordance with all code bodies having jurisdiction.
   4. Cleaning and Protection
      1. Clean and remove all stains, grime, or other soils using soap and water. Only use detergents approved by the manufacturer for use on the finishes specified. Do not use acid solutions, steel wool, and other harsh abrasives.
      2. Damaged products must be repaired or replaced prior to substantial completion.
      3. Protect installed products until completion of work specified in this section.
   5. FIELD QUALITY CONTROL
      1. Field Test: Follow manufacturer’s cycle test procedures.
         1. Notify Owner’s Representative, local Fire Marshal, alarm sub-contractor and elevator sub-contractor or service company minimum one week in advance of scheduled testing.
         2. Complete maintenance service record.
   6. DEMONSTRATION
      1. Demonstrate required testing and maintenance procedures to Owner’s Representative.
   7. 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.
         1. Retain permanent record of tests.
      2. Fire Event: Owner shall engage a qualified inspector to assess unit(s) after exposure to a fire event.

END OF SECTION