

SECTION 08332
 FIRE DOORS
 630 Series Rolling Fire Doors

PART 1 - GENERAL

- 1.01 RELATED DOCUMENTS
 - A. All of the Contract Documents, including General and Supplementary Conditions, and Division 1 General Requirements, apply to the work of this Section.
- 1.02 SUMMARY
 - A. The work of this Section includes rolling fire doors.
 - B. Related Sections: Other specification sections which directly relate to the work of this Section include, but are not limited to, the following:
 - 1. Section 08710 - Finish Hardware; key cylinders for locks.
 - 2. Section 16100 - Electrical; wiring.
- 1.03 SUBMITTALS
 - A. Product Data: Submit manufacturer's product data and installation instructions for each type of rolling fire door. Include both published data and any specific data prepared for this project.
 - B. Shop Drawings: Submit shop drawings for approval prior to fabrication. Include detailed plans, elevations, details of framing members, required clearances, anchors, and accessories. Include relationship with adjacent materials.
- 1.04 QUALITY ASSURANCE
 - A. Manufacturer: Rolling fire doors shall be manufactured by a firm with a minimum of five years experience in the fabrication and installation of rolling fire doors. Manufacturers proposed for use, which are not named in these specifications, shall submit evidence of ability to meet performance and fabrication requirements specified, and include a list of five projects of similar design and complexity completed within the past five years.
 - B. Installer: Installation of rolling fire doors shall be performed by an authorized representative of the manufacturer.
 - C. Single-Source Responsibility: Provide doors, guides, motors, and related primary components from one manufacturer for each type of door. Provide secondary components from source acceptable to manufacturer of primary components.
 - D. Pre-Installation Conference: Schedule and convene a pre-installation conference just prior to commencement of field operations, to establish procedures to maintain optimum working conditions and to coordinate this work with related and adjacent work.
- 1.05 DELIVERY, STORAGE, AND HANDLING
 - A. Deliver materials and products in labeled protective packages. Store and handle in strict compliance with manufacturer's instructions and recommendations. Protect from damage from weather, excessive temperatures and construction operations.

PART 2 - PRODUCTS

- 2.01 ACCEPTABLE MANUFACTURER
 - A. Provide rolling fire doors by Overhead Door Corporation, Pennsylvania Division; Telephone 800-929-2553 or 717-248-0131; Fax 800-929-1274.

Options are in parentheses

- 2.02 ROLLING FIRE DOORS
- A. Trade Reference: Series 630 Fire Doors by Overhead Door Corporation.
- B. Label: Provide fire doors certified with the following listing.
1. Rolling fire doors up to 144 sq. ft. and 12' in width or height shall bear the (UL and FM 3-Hour Class A Label.)(ULC 3-Hour Label.)(UL and FM 1-1/2 Hour Class B Label for non-masonry fire walls.)
 2. Rolling fire doors over 144 sq. ft. shall receive the UL Oversize Fire Door Label.
 3. Rolling fire doors over 144 sq. ft. and not exceeding 18' in height or width shall receive the Factory Mutual Label for Oversize Fire Doors.
- C. Curtain: Interlocking roll-formed slats as specified following. Endlocks shall be attached to each end of alternate slats to prevent lateral movement.
1. Curved profile type C-187 for doors thru 14'0" wide by 12'0" high, fabricated of 22 gauge galvanized steel. (20 gauge galvanized steel.)(22 gauge stainless steel.)
 2. Curved profile type C-187 for doors over 14'0" thru 20'0" wide, fabricated of 20 gauge galvanized steel. (18 gauge galvanized steel.)(20 gauge stainless steel.)
 3. Curved profile type C-275 for doors thru 14'0" wide by 12'0" high, fabricated of 22 gauge galvanized steel. (20 gauge galvanized steel.)(22 gauge stainless steel.)
 4. Curved profile type C-275 for doors over 14'0" thru 20'0" wide, fabricated of 20 gauge galvanized steel. (18 gauge galvanized steel.)(20 gauge stainless steel.)
 5. Curved profile type C-275 for doors over 20'0" thru 24'0" wide, fabricated of 18 gauge galvanized steel. (16 gauge galvanized steel.)
 6. Flat profile type F-265 for doors thru 14'0" wide by 12'0" high, fabricated of 22 gauge galvanized steel. (20 gauge galvanized steel.)(22 gauge stainless steel.)
 7. Flat profile type F-265 for doors over 14'0" thru 20'0" wide, fabricated of 20 gauge galvanized steel. (18 gauge galvanized steel.)(20 gauge stainless steel.)
 8. Flat profile type F-265 for doors over 20'0" thru 24'0" wide, fabricated of 18 gauge galvanized steel.
- D. Glazing: Not Required. (Fire-rated vision panels, four glazing panels 3" by 5/8"; FireLite glazing as manufactured by Nippon Electric Glass Co. and distributed by Technical Glass Products.)
- E. Finish:
1. Galvanized Steel: Slats and hood shall be galvanized steel in accordance with ASTM A 525 and receive rust-inhibitive, roll coating process, including bonderizing, 0.2 mils thick baked-on prime paint, and 0.6 mils thick baked-on polyester (powder coated) top coat. Non-galvanized exposed ferrous surfaces shall receive one coat of rust-inhibitive primer.
 2. Stainless Steel: Slats shall be stainless steel with (2B mill finish.)(No. 4 satin finish.)
- F. Color: Gray polyester top coat. (Tan polyester top coat.)(Powder coating finish in color as selected by Architect from manufacturer's standard colors.)
- G. Bottom Bar: Two (galvanized) structural steel angles 1-1/2" by 1-1/2" by 1/8" minimum. (Single angle for conveyor applications.)(Tubular locking bottom bar.)(Stainless steel.)
- H. Guides: Roll-formed steel shapes attached to continuous steel wall angle for doors thru 12' wide. Three structural steel angles with minimum thickness of 3/16" for doors over 12' wide. Guides for between jamb doors shall be structural angles.
1. Fastening Guides to Masonry Fire Walls: UL listed expansion anchors, or by through-bolts on soft brick or hollow block walls, or by bolts on steel jambs, or welded in accordance with manufacturer's listing.
 2. Fastening Guides to Non-Masonry Fire Walls: Comply with the manufacturer's listing.
- I. Brackets: Steel plate to support counterbalance, curtain and hood.
- J. Counterbalance: Helical torsion spring type. Counterbalance shall be housed in a steel tube or pipe barrel, supporting the curtain with deflection limited to 0.03" per foot of span. Counterbalance shall be adjustable by means of an adjusting tension wheel.

- K. Hood: 24 gauge galvanized primed steel minimum for wall openings thru 19' wide. 22 gauge galvanized primed steel for wall openings over 19' wide. Hood shall be equipped with thermally controlled, internal, galvanized steel flame baffle as required. Provide one intermediate support bracket for wall openings over 13'6" wide and two support brackets for wall openings over 19'0" wide.
- L. Manual Operation: Manual push up (Chain hoist.)(Crank.)
- M. Electric Motor Operation: Provide UL listed electric operator, size as recommended by manufacturer to move door in either direction at not less than 2/3 foot nor more than 1 foot per second.
1. Sensing Edge Protection: (Pneumatic sensing edge.)(Electric sensing edge.)
 2. Operator Controls: Push-button (Key)(Push-button and key) operated control stations with open, close, and stop buttons for surface (flush) mounting, for interior (exterior) (both interior and exterior) location.
 3. Special Operation: (Vehicle detector operation), (radio control operation), (card reader control), (photocell operation), (door timer operation), (commercial light package), (explosion and dust ignition proof control wiring.)
- N. Automatic Closure:
 (See Fire Sentinel specification for time delay release device.)
 (See Fire Minuteman specification for test and reset hoist.)
- O. Locking: (Interior bottom bar slide bolt.)(Interior slide lock for electric operation with interlock switch.)(Cylinder locking bottom bar with mortise cylinders.)
- P. Wall Mounting Condition: Face-of-wall mounting (Between jambs mounting.)

PART 3 - EXECUTION 3.01 PREPARATION

- A. Take field dimensions and examine conditions of substrates, supports, and other conditions under which this work is to be performed. Do not proceed with work until unsatisfactory conditions are corrected.

3.02 INSTALLATION

- A. Strictly comply with manufacturer's installation instructions and recommendations. Coordinate installation with adjacent work to ensure proper clearances and allow for maintenance.
- B. Install rolling fire doors in compliance with requirements of NFPA 80. Test fire-release system and reset components after testing.
- C. Instruct Owner's personnel in proper operating procedures and maintenance schedule.

3.03 ADJUSTING AND CLEANING

- A. Test rolling fire doors for proper operation and adjust as necessary to provide proper operation without binding or distortion.
- B. Touch-up damaged coatings and finishes and repair minor damage. Clean exposed surfaces using non-abrasive materials and methods recommended by manufacturer of material or product being cleaned.

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