

SECTION 08330
 ROLLING DOORS
 610 Series Service 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 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 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 doors shall be manufactured by a firm with a minimum of five years experience in the fabrication and installation of rolling 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 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 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 DOORS

- A. Trade Reference: 610 Series Service Service Doors by Overhead Door Corporation.
- B. 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 up to 15'4" wide, fabricated of 22 gauge galvanized steel (20 gauge galvanized steel)(18 gauge galvanized steel)(22 gauge stainless steel)(20 gauge stainless steel)(18 gauge aluminum).
 2. Curved profile type C-275 for doors up between 15'4" and 18'4" wide, fabricated of 22 gauge galvanized steel (20 gauge galvanized steel)(22 gauge stainless steel)(16 gauge aluminum).
 3. Curved profile type C-275 for doors between 18'4" and 25'4" wide, fabricated of 20 gauge galvanized steel (18 gauge galvanized steel)(20 gauge stainless steel)(16 gauge aluminum).
 4. Curved profile type C-275 for doors between 25'4" and 40'0", fabricated of 18 gauge galvanized steel (16 gauge galvanized steel)(16 gauge aluminum).
 5. Flat profile type F-265 for doors up to 18'4" wide, fabricated of (22 gauge galvanized steel)(22 gauge stainless steel)(18 gauge aluminum).
 6. Flat profile type F-265 for doors between 18'4" and 25'4" wide, fabricated of (20 gauge galvanized steel)(20 gauge stainless steel)(18 gauge aluminum).
 7. Flat profile type F-265 for doors between 25'4" and 40'0" wide, fabricated of (18 gauge galvanized steel)(16 gauge galvanized steel)(18 gauge aluminum).
 8. For fenestrated service doors, provide slats with (3" x 5/8" uniformly spaced openings)(18 gauge C275)(18 gauge F265).
 9. For ventilated service doors, provide slats with (1/16" diameter perforations 3/32" on center staggered rows)(18 gauge C275)(18 gauge F265).
- C. Finish:
 1. Galvanized Steel: Slats and hood shall be galvanized steel in accordance with ASTM A 653 and receive rust-inhibitive, roll coating process, including 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 and hood shall be stainless steel with (2B mill finish)(No. 4 satin finish).
 3. Aluminum: Slats and hood shall be aluminum with (mill finish)(clear anodized finish)(bronze anodized finish).
- D. Color: Gray polyester top coat. (Tan polyester top coat.)(Powder coating finish in color as selected by Architect from manufacturer's standard colors.)
- E. Windload Design: 20 PSF.
- F. Weatherseals: Vinyl bottom seal. (Guide weatherseal.)
- G. Bottom Bar: Extruded aluminum up to 15'4" wide. Two steel angles over 15'4" wide. (Two galvanized steel angles.)
- H. Guides: Roll-formed steel shapes attached to continuous steel wall angle is standard for doors up to 15'4" wide. Three structural steel angles with minimum thickness of 3/16" for doors over 15'4" wide.
- I. Brackets: Hot rolled steel (Galvanized steel) to support counterbalance, curtain and hood.
- J. Counterbalance: Helical torsion spring type designed for standard 20,000 cycle (50,000 cycle)(100,000 cycle) life design. 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: Galvanized steel, 24 gauge (Stainless steel, 24 gauge)(Aluminum) hood with intermediate supports as required.

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- L. Manual Operation: Manual push up (chain hoist) for doors up to 96 sq.ft. Chain hoist (Crank operation) for doors over 96 sq.ft.
 - 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. Locking: Interior bottom bar slide bolt. Chain keeper locks for chain hoist operation. (Interior slide bolt lock for electric operation with interlock switch.)(Cylinder lock for electric operation with interlock switch.)
 - O. Wall Mounting Condition: (Face-of-wall mounting.)(Between jambs mounting.)
 - P. Vision Lites: (3" x 5/8") uniformly spaced opening, open or with Plexiglas® covers.
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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. Instruct Owner's personnel in proper operating procedures and maintenance schedule.

3.03 ADJUSTING AND CLEANING

- A. Test rolling 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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