

SECTION 08 3323
ROLLING SERVICE DOOR

PART 1 GENERAL

1.1 SUMMARY

- A. This section includes manual interior rolling service doors:
- B. Related Documents and Sections: Examine Contract Documents for requirements that directly affect or are affected by Work of this Section. Other Documents and Sections that directly relate to work of this Section include, but are not limited to:
 - 1. General provisions of the Contract, including General and Supplementary Conditions, and Division 01 General Requirements Specification Sections.
 - 2. Section 05 5000 - METAL FABRICATIONS
 - 3. Section 08 7100 - DOOR HARDWARE.
 - 4. Division 26, ELECTRICAL.

1.2 SUBMITTALS

- A. Product Data: For each type and size of overhead coiling door and accessory. Include the following:
 - 1. Include construction details, material descriptions, dimensions of individual components, profiles for slats, and finishes.
 - 2. Include rated capacities, operating characteristics, electrical characteristics, and furnished accessories.
 - 3. Include description of automatic closing device and testing and resetting instructions.
- B. Shop Drawings: For each installation and for special components not dimensioned or detailed in manufacturer's product data. Include plans, elevations, sections, details, and attachments to other work.
 - 1. Include plans, elevations, sections, and mounting details.
 - 2. Include details of equipment assemblies, and indicate dimensions, required clearances, method of field assembly, components, and location and size of each field connection.
 - 3. Include points of attachment and their corresponding static and dynamic loads imposed on structure.
 - 4. Show locations of controls, locking devices, detectors or replaceable fusible links, and other accessories.
 - 5. Include diagrams for power, signal, and control wiring.
- C. Samples for Initial Selection: Manufacturer's finish charts showing full range of colors and textures available for units with factory-applied finishes.
 - 1. Include similar Samples of accessories involving color selection.
- D. Samples for Verification: For each type of exposed finish required, prepared on Samples of size indicated below.
 - 1. Curtain Slats: 12 inches long.
 - 2. Bottom Bar: 6 inches long, with sensor edge.
 - 3. Track.

- E. Qualification Data: For qualified Installer.
- F. Maintenance Data: For overhead coiling doors to include in maintenance manuals. Warranty: Special warranty specified in this Section.

1.3 QUALITY ASSURANCE

- A. Installer Qualifications: Manufacturer's authorized representative who is trained and approved for both installation and maintenance of units required for this Project.
- B. 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.
- C. Regulatory Requirements: Comply with applicable provisions in ICC/ANSI A117.1 and the 2010 ADA Standards.

1.4 WARRANTY

- A. Special Warranty for Overhead Coiling Doors: Manufacturer's standard form in which manufacturer agrees to repair or replace components of overhead coiling doors that fail in materials or workmanship within specified warranty period.
 - 1. Warranty Period for Door and Operator: Three years from date of Substantial Completion.
 - 2. Warranty Period for Finish: Two years from date of Substantial Completion.

PART 2 PRODUCTS

2.1 MANUFACTURERS, GENERAL

- A. Manufacturers: Acceptable manufacturers include, but are not limited to, the following:
 - 1. Overhead Door Corporation
 - 2. Cornell Iron Works, Inc.
 - 3. Raynor
- B. Source Limitations: Obtain overhead coiling doors from single source from single manufacturer.

2.2 OVERHEAD COILING DOORS

- A. Basis-of-Design: DuraCoil as manufactured by Raynor Garage Doors, Dixon, IL:
- B. Doors:
 - 1. Operation:
 - a. Provide doors designed for push-up operation.
 - 2. Mounting: Door guide mounting configuration.
 - a. Between jamb of wall opening.
- C. Curtain: Interlocking roll-formed slats as specified below. Endlocks shall be attached to each of alternate slat to prevent lateral movement.
 - 1. Slat Type(s):
 - a. Flat slats
 - 1). Aluminum 16 gauge (0.050 inch minimum thickness).
 - 2. Material:
 - a. Aluminum in accordance with ASTM B-209, alloy 5005, temper H34.

3. Color and Finish:
 - a. ArmorBrite Powdercoat finish.
 - 1). Color: White.
- D. Endlocks: Zinc-plated malleable cast iron endlocks fastened with two zinc-plated steel rivets.
- E. Bottom Bar: Two angles, minimum 1-1/2 inches by 1-1/2 inches by 1/8 inch (38.1 mm x 38.1 mm x 3.2 mm) with single-contact type bottom astragal.
 1. Material:
 - a. Structural aluminum angles.
 2. Color and finish:
 - a. ArmorBrite Powdercoat finish.
 - 1). Color: White.
- F. Guide Assemblies: Three structural angles, minimum 3 inches by 2 inches by 3/16 inch (76 mm by 50.8 mm by 4.8 mm) and fitted with removable curtain stops.
 1. Material and Finish:
 - a. Structural steel to receive one coat of black rust-inhibitive primer.
- G. Counterbalance:
 1. Barrel: Minimum 4-1/2 inches (114.3 mm) O.D. and 0.120 inch (3.1 mm) wall thickness structural steel pipe. Deflection of pipe under full load shall not exceed 0.03 inch (0.8 mm) per foot of span.
 2. Counterbalance: Provide counterbalance mechanism with helical torsion springs, grease packed and mounted on a continuous steel torsion shaft.
 - a. Standard 15,000 cycles.
- H. Brackets: 3/16 inch (4.8 mm), minimum, steel plate, attached to wall angle of guide assembly with 1/2 inch (12.7 mm) diameter Grade 5 bolts. Inside of drive bracket fitted with sealed ball bearing.
 1. Finish:
 - a. Provide brackets with one coat of ArmorBrite Powdercoat finish.
 - 1). Color: White.
- I. Enclosures:
 1. Hood Type:
 - a. Square Hood.
 2. Bracket Covers: Covers to enclose door mechanisms.
 3. Material:
 - a. 18 gauge aluminum (0.040 inch minimum thickness) in accordance with ASTM B-209, alloy 5005, temper H34.
 4. Color and Finish:
 - a. ArmorBrite Powdercoat finish.
 - 1). Color: White.
- J. Locks: Furnish door system with the following:
 1. Cylinder Lock: For use with push-up and hand chain operated doors.

2.3 GENERAL FINISH REQUIREMENTS

- A. Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for

recommendations for applying and designating finishes.

- B. Appearance of Finished Work: Noticeable variations in same piece are not acceptable. Variations in appearance of adjoining components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.
- C. Powder-Coat Finish: Manufacturer's standard baked-on finish consisting of prime coat and thermosetting topcoat. Comply with coating manufacturer's written instructions for cleaning, pretreatment, application, and minimum dry film thickness.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Examine substrates areas and conditions, with Installer present, for compliance with requirements for substrate construction and other conditions affecting performance of the Work.
- B. Examine locations of electrical connections.
- C. Proceed with installation only after unsatisfactory conditions have been corrected. Commencement of work indicates acceptance of substrates.

3.2 INSTALLATION

- A. Install overhead coiling doors and operating equipment complete with necessary hardware, anchors, inserts, hangers, and equipment supports; according to manufacturer's written instructions and as specified.
- B. Install overhead coiling doors, hoods, and operators at the mounting locations indicated for each door.
- C. Accessibility: Install overhead coiling doors, switches, and controls along accessible routes in compliance with regulatory requirements for accessibility.

3.3 ADJUSTING

- A. Adjust hardware and moving parts to function smoothly so that doors operate easily, free of warp, twist, or distortion.
- B. Lubricate bearings and sliding parts as recommended by manufacturer. Adjust seals to provide weathertight fit around entire perimeter.

3.4 DEMONSTRATION

- A. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain overhead coiling doors.

END OF SECTION