



SECTION 08332 [08 33 13]

COILING COUNTER DOORS

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PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Coiling Metal Counter Doors.
- B. Coiling Metal Counter Doors With Integral Frame
- C. Coiling Counter Fire Doors.
- D. Coiling Counter Fire Doors With Integral Frame.
- E. Coiling Wood Counter Doors.

1.2 RELATED SECTIONS

- A. Section 05500 - Metal Fabrications: Support framing and framed opening.
- B. Section 06200 - Finish Carpentry: Wood jamb and head trim.
- C. Section 08710 - Door Hardware: Product Requirements for cylinder core and keys.
- D. Section 09900 - Painting: Field applied finishes.
- E. Section 16130 - Raceway and Boxes: Conduit from electric circuit to door operator and from door operator to control station.
- F. Section 16150 - Wiring Connections: Power to disconnect.

1.3 REFERENCES

- A. ASTM A 123 - Standard specification for Zinc (hot-dipped galvanized) coating on iron and steel products.
- B. ASTM A 229 - Standard specification for Steel wire, oil-tempered for mechanical springs.

- C. ASTM A 653 - Standard specification for Steel sheet, zinc-coated (galvanized) by the hot-dipped process, commercial quality.
- D. ASTM A 666 - Standard Specification for Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar.
- E. ASTM A 924 - Standard Specification for General Requirements for Steel Sheet, Metallic-Coated by the Hot-Dip Process.
- F. ASTM B 221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.
- G. NEMA 250 - Enclosures for Electrical Equipment (1000 Volts Maximum).
- H. NEMA MG 1 - Motors and Generators.
- I. NFPA-80 – Standard for Fire Doors and Fire Windows.

1.4 DESIGN / PERFORMANCE REQUIREMENTS

- A. Fire Rated Assemblies: Provide assemblies complying with NFPA 80 and listed in UL Directory or Intertek Testing Services (Warnock Hersey Listed) Directory.

1.5 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
 1. Preparation instructions and recommendations.
 2. Storage and handling requirements and recommendations.
 3. Details of construction and fabrication.
 4. Installation methods.
- C. Shop Drawings: Include detailed plans, elevations, details of framing members, anchoring methods, required clearances, hardware, and accessories. Include relationship with adjacent construction.
- D. Selection Samples: For each finish product specified, two complete sets of color chips representing manufacturer's full range of available colors and patterns.
- E. Verification Samples: For each finish product specified, two samples, minimum size 6 inches (150 mm) square, representing actual product, color, and patterns.
- F. Manufacturer's Certificates: Certify products meet or exceed specified requirements.
- G. Closeout Submittals: Provide manufacturer's maintenance instructions that include recommendations for periodic checking, adjustment and maintenance of all components.

1.6 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in performing Work of this section with a minimum of five years experience in the fabrication and installation of security closures.

- B. Installer Qualifications: Installer Qualifications: Company specializing in performing Work of this section with minimum three years and approved by manufacturer.
- C. Mock-Up: Provide a mock-up for evaluation of surface preparation techniques and application workmanship.
 - 1. Finish areas designated by Architect.
 - 2. Do not proceed with remaining work until workmanship, color, and sheen are approved by Architect.
 - 3. Refinish mock-up area as required to produce acceptable work.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Store products in manufacturer's unopened packaging until ready for installation.
- B. Protect materials from exposure to moisture. Do not deliver until after wet work is complete and dry.
- C. Store materials in a dry, warm, ventilated weathertight location

1.8 SEQUENCING

- A. Ensure that locating templates and other information required for installation of products of this section are furnished to affected trades in time to prevent interruption of construction progress.
- B. Ensure that products of this section are supplied to affected trades in time to prevent interruption of construction progress.

1.9 PROJECT CONDITIONS

- A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

1.10 COORDINATION

- A. Coordinate Work with other operations and installation of adjacent materials to avoid damage to installed materials.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: Wayne Dalton; 2501 S. State Highway 121 Business, Suite 200, Lewisville, TX 75067. ASD. Phone: (800) 827-3667; Web Site: www.wayne-dalton.com. Email: info@wayne-dalton.com.
- B. Substitutions: Not permitted.
- C. Requests for substitutions will be considered in accordance with provisions of Section 01600.

2.2 COILING COUNTER FIRE DOORS WITH INTEGRAL FRAMES

- A. Coiling Counter Fire Doors with Integral Frames: Model 570 Integral Frame Fire-Rated Counter Doors.
1. Label: Rolling fire doors shall bear the UL 1-1/2 Hour Class B label for masonry or non-masonry fire walls.
 2. Curtain:
 - a. Interlocking roll-formed 22 gauge #4 stainless steel, flat profile slats with endlocks for curtain alignment and single angle bottom bar.
 - b. Interlocking roll-formed 22 gauge galvanized steel with baked-on polyester finish in gray, flat profile slats with endlocks for curtain alignment and double angle bottom bar.
 3. Integral Frame and Guides: 16 gauge #4 stainless steel.
 4. Sill: 14 gauge #4 stainless steel sill enclosed with fireproof acoustic filler.
 5. Hood: Stainless steel with a #4 finish.
 6. Finish:
 - a. Non-galvanized exposed ferrous surfaces shall receive one coat of rust-inhibitive primer.
 7. Bottom Bar:
 - a. Finish:
 - 1) Double Angle stainless steel with a #4 finish standard with stainless curtain.
 - 2) Double Angle galvanized steel, gray primed standard with galvanized curtain.
 - 3) Tubular stainless steel with a #4 finish, required if cylinder locking is required.
 - b. Smoke seal.
 8. Brackets: Minimum 12 gauge steel.
 9. Counterbalance: Helical torsion spring type. Counterbalance housed in a steel tube or pipe barrel, supporting the curtain with deflection limited to 0.03 inches per foot of span. Counterbalance is adjustable by means of an adjusting tension wheel.
 10. Operation:
 - a. Manual push up operation (standard).
 - b. Crank operation.
 11. Locking:
 - a. Interior slide bolts.
 - b. Cylinder lock.
 12. Mounting: Between jambs.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify opening sizes, tolerances and conditions are acceptable.
- B. Examine conditions of substrates, supports, and other conditions under which this work is to be performed.
- C. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 PREPARATION

- A. Clean surfaces thoroughly prior to installation.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.3 INSTALLATION

- A. Install in accordance with manufacturer's instructions.
- B. Use anchorage devices to securely fasten assembly to wall construction and building framing without distortion or stress.
- C. Securely and rigidly brace components suspended from structure. Secure guides to structural members only.
- D. Fit and align assembly including hardware; level and plumb, to provide smooth operation.
- E. Coordinate installation of electrical service with Section 16150. Complete wiring from disconnect to unit components.
- F. Coordinate installation of sealants and backing materials at frame perimeter as specified in Section 07900.
- G. Install perimeter trim and closures.
- H. Instruct Owner's personnel in proper operating procedures and maintenance schedule.

3.4 ADJUSTING

- A. Test for proper operation and adjust as necessary to provide proper operation without binding or distortion.
- B. Adjust hardware and operating assemblies for smooth and noiseless operation.

3.5 CLEANING

- A. Clean curtain and components using non-abrasive materials and methods recommended by manufacturer.
- B. Remove labels and visible markings.

3.6 PROTECTION

- A. Protect installed products until completion of project.
- B. Touch-up, repair or replace damaged products before Substantial Completion.

3.7 SCHEDULES

- A. :
 - 1.
 - 2.
 - 3.

- B. :
- 1.
 - 2.
 - 3.

END OF SECTION