



**SECTION 083313
COILING COUNTER DOORS**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Metal coiling counter doors.
- B. Metal coiling counter doors with integral frame and sill.
- C. Wood coiling counter doors.

1.02 RELATED REQUIREMENTS

- A. Section << **061000 - Rough Carpentry**>>: Rough openings.
- B. Section << **079200 - Joint Sealants**>>: Sealing joints between frames and adjacent construction.
- C. Section << **087100 - Door Hardware**>>: Cylinder cores and keys.
- D. Section << **260583 - Wiring Connections**>>: Power to disconnect.

1.03 REFERENCE STANDARDS

- A. ASTM A240/A240M - Standard Specification for Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels and for General Applications; 2025a.
- B. ITS (DIR) - Directory of Listed Products; Current Edition.
- C. UL (DIR) - Online Certifications Directory; Current Edition.

1.04 SUBMITTALS

- A. Product Data: Provide details of general construction component connections<< **and electrical equipment; _____; or None - N/A**>>.
- B. Shop Drawings: Indicate dimensioning, anchorage methods, hardware locations, and installation details.
- C. Manufacturer's Instructions: Indicate installation sequences and procedures, as well as adjustment and alignment procedures.
- D. Manufacturer's qualification statement.
- E. Installer's qualification statement.
- F. Operation and Maintenance Data: Indicate << **lubrication requirements and frequency; periodic adjustments required; and _____**>>.
- G. Specimen warranty.

1.05 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with minimum << **3 years; or _____**>> of<< **documented; _____; or None - N/A**>> experience.
- B. Installer Qualifications: Company specializing in performing work of type specified and with minimum << **3 years; or _____**>> of<< **documented; _____; or None - N/A**>> experience<< **and approved by manufacturer; or None - N/A**>>.
- C. Products Requiring Electrical Connection: Listed and classified by << **ITS (DIR); UL (DIR); testing firm acceptable to authorities having jurisdiction; or _____**>> suitable for purpose specified and indicated.

1.06 DELIVERY, STORAGE, AND HANDLING

- A. Store products in manufacturer's unopened packaging until ready for installation.

- B. Protect materials from exposure to moisture.
- C. Store materials in dry, warm, ventilated, weathertight location.

1.07 WARRANTY

- A. Manufacturer Warranty:
 - 1. Provide manufacturer warranty for counterbalance shaft assembly for years indicated under individual doors.
 - 2. Include warranty for product and components against defects in materials and workmanship for << **two**; or _____>> years, measured from date of installation.
 - 3. Complete forms in <<Owner>>'s name and register with manufacturer.

PART 2 PRODUCTS

2.01 MANUFACTURER

- A. Wayne Dalton; www.wayne-dalton.com; 1 (800) 827-3667.
- B. Substitutions: Not permitted.

2.02 METAL COILING COUNTER DOORS

- A. Wayne Dalton, Model 500.
 - 1. Slats: Interlocking, roll-formed, metal slats.

 - 2. Width: << _____ **feet** (_____ **mm**)>>.

 - 3. Height: << _____ **feet** (_____ **mm**)>>.
 - 4. Mounting: << **Surface-mounted on side indicated on drawings; Between jamb; or _____**>>.
 - 5. Opening Speed: Door to operate at variable speed up to << **8 inches (203 mm)**>> per second.
 - 6. Closing Speed: Door to operate at variable speed up to << **12 inches (305 mm)**>> per second.
 - 7. Door Warranty: Two years.
 - 8. Curtain Material: << **22-gauge, 0.0336-inch (0.853 mm) galvanized steel; 22-gauge, 0.0336-inch (0.853 mm) stainless steel; 22-gauge, 0.0336-inch (0.853 mm) G-90 galvanized steel; or 16-gauge, 0.05-inch (0.853 mm) aluminum**>>; endlocks attached to alternate slats maintain curtain alignment and prevent lateral slat movement.
 - a. Slat Profile: No.17 << **2-inch (51 mm)**>> flat slats. Fit alternate slats with end locks to maintain curtain alignment.

 - b. Perforated Slats: Secur-Vent perforated holes.
 - c. Finish:

- 1) Standard polyester base coat. Color: << **Gray; Brown; Beige; White; G-90 Gray; or _____**>>.

 - 2) << **Powder coat; or _____**>>.<< **Color: _____;** or None - N/A>>
 - 3) Aluminum Finish: << **Clear, anodized; Bronze, anodized; or _____**>>.
 - 4) Stainless Steel Finish: No.4 finish.
9. Bottom Bar: << **Aluminum; Galvanized steel; Stainless steel; or _____**>>.
 - a. Profile: << **Extruded aluminum; Tubular; Single angle; or _____**>>.

 - b. Finish: << **Black anodized; Black powder coat; Bronze anodized; Clear anodized; Galvanized; Match curtain; Powder coat; or _____**>>.<< **Color: _____;** or None - N/A>>
 10. Locking Options to Include: << **Best cylinder.; Cylinder.; Slide lock.; _____;** or None - N/A>>
 - a. Lock Locations: << **Both jambs; Left jamb only; Right jamb only; or _____**>>.
 - b. Lock Access: Coil side.
 11. Weatherstripping and Seals:
 - a. Bottom Seal Astragal: << **Required; Not required; or _____**>>.
 12. Side Guides, Channels: Constructed of << **extruded aluminum; steel; 304 stainless steel; or _____**>> with members fully bolted together. Include continuous strips of wool pile in guides to eliminate metal-to-metal contact and to provide dust-seal around curtain.
 - a. Finish: << **Black anodized; Black powder coat; Bronze anodized; Clear anodized; Match curtain; No.4 satin; Powder coat; or _____**>>.<< **Color: _____;** or None - N/A>>
 13. Brackets: << **0.13-inch (3.2 mm) extruded aluminum; 0.18-inch (4.8 mm) galvanized steel; or 0.18-inch (4.8 mm) stainless steel**>> to support counterbalance assembly and curtain.
 - a. Finish: << **Match curtain; Powder coat; or _____**>>.<< **Color: _____;** or None - N/A>>
 14. Counterbalance Assembly: Helical-torsion-spring type, housed in steel tube or pipe barrel and supporting curtain with deflection limited to << **0.03 inch per foot (2.5 mm per m)**>> of span; adjustable spring tension required.
 15. Hood: Encloses curtain coil and counterbalance mechanism; fabricated of sheet metal with flanges for attachment and longitudinal stiffness.
 - a. Manufacturer's standard sheet metal.
 - 1) << **24-gauge, 0.025-inch (0.635 mm)**>> stainless steel.
 - 2) << **24-gauge, 0.0276-inch (0.701 mm)**>> galvanized steel.
 - 3) << **22-gauge, 0.025-inch (0.64 mm)**>> aluminum.
 - 4) Finish:
 - (a) Standard polyester base coat. Color: << **Gray; Brown; Beige; White; G-90 Gray; or _____**>>.

 - (b) << **Powder coat; Textured powder coat; or _____**>>.<< **Color: _____;** or None - N/A>>

- (c) Aluminum Finish: << **Clear, anodized; Bronze, anodized; or _____**>>.
 - (d) Stainless Steel Finish: No.4 finish.
16. Manual Operation: << **Push-up; or Hand crank**>>.
17. Motor Operation: << **Standard motor; Tube-mounted motor; or _____**>>.
- a. Override: << **Crank; Manual; or _____**>>.
 - b. Tube Motor Configuration:
 - 1) Timer to Close: Not applicable.
 - 2) Operation Supply Voltage: 115/208/230 V, 1-phase, 60 Hz.
 - 3) Signaling Device: Not applicable.
 - 4) Actuation: Provide push button.
 - 5) Motor Mounting: Within tube.
 - 6) Obstruction Safety Detection: Not applicable.
 - c. Standard Motor Configuration:
 - 1) Timer to Close: << **Automatic closing controlled by adjustable hold-open time delay; Not required; or _____**>>.
 - 2) Operation Supply Voltage: 115/208/230 V, 1-phase, 60 Hz.
 - 3) Signaling Device: << **Horn and strobe combination; Traffic warning light; or _____**>>.
 - 4) Actuation: Provide << **push button; key switch; pull cord; loop detector; motion detector; and _____**>>.
 - 5) Motor Mounting: << **Wall-mounted; Front of hood; or _____**>>, << **right-hand side; left-hand side; or _____**>>.
 - 6) Obstruction Safety Detection:
 - (a) Constant Contact Button: << **Required; Not required; or _____**>>.
 - (b) Photo Eyes: << **NEMA 4X; Protected; Reflective; Standard; None; or _____**>>.
 - (c) Light Curtain: << **3 feet (0.9 m); 6 feet (1.8 m); or _____ feet (_____ m)**>>.
 - 7) Reversing Safety Edge: << **Door provided with wireless, monitored electric safety edge; Door provided with wired, monitored safety edge; Not required; or _____**>>.

2.03 METAL COILING COUNTER DOORS WITH INTEGRAL FRAME AND SILL

- A. Wayne Dalton, Model 560.
 - 1. Slats: Interlocking, roll-formed, metal slats.
 - 2. Width: << **_____ feet (_____ mm)**>>.
 - 3. Height: << **_____ feet (_____ mm)**>>.
 - 4. Mounting: Between jamb.
 - 5. Door Warranty: One year.
 - 6. Curtain Material: << **0.040-inch (1.016 mm)**>> aluminum.
 - a. Slat Profile: << **1-1/4 inches (32 mm)**>>, flat.
 - b. Endlocks: Hot-dip galvanized, stamped components riveted to each end of alternate slats to prevent lateral movement and limit both slat deflection and bending stress.

- c. Finish: << **Black anodized; Bronze anodized; Clear anodized; Powder coat;** or _____>>. << **Color: _____;** or None - N/A>>
- 7. Bottom Bar: 6063-T6 aluminum.
 - a. Finish: Clear anodized.
- 8. Locking Options to Include: << **Best cylinder; Cylinder; Slide lock;** or _____>>.
 - a. Lock Locations: << **Both jambs; Left jamb only; Right jamb only;** or _____>>.
 - b. Lock Access: << **Both sides; Coil side; Opposite coil side;** or _____>>.
- 9. Weatherstripping and Seals:
 - a. Bottom Seal Astragal: << **Required; Not required;** or _____>>.
 - b. Guide Seal: << **Brush, one-sided; Not required;** or _____>>.
- 10. Brackets: Minimum << **12-gauge, 0.1046-inch (2.66 mm)**>> steel plate to support counterbalance assembly and form end closures. Provide ball bearings at rotating support points. Bolt plates to mounting structures with minimum << **1/4-inch (6 mm)**>> fasteners.
 - a. Material: << **ASTM A240/A240M**>>, stainless steel.
 - b. Finish: No.2B mill finish.
- 11. Counterbalance Assembly: Steel pipe barrel capable of carrying curtain load with maximum deflection of << **0.03-inch per foot (2.5 mm per m)**>> of door width.
 - a. Material: Heat-treated, helical-torsion springs, encased in steel pipe and designed to include overload factor of 25 percent to ensure minimum effort to operate.
 - b. Assembly: Sealed and prelubricated high-speed ball bearing at rotating support points. Torsion spring charge wheel for applying spring torque and for future adjustments.
- 12. Hood: << **ASTM A240/A240M**>>, << **16-gauge, 0.625-inch (1.587 mm)**>> stainless steel, formed to fit contour of end brackets with reinforced top and bottom edges.
 - a. Shape: Square.
 - b. Finish: No.4 satin.
- 13. Integral Frame: << **ASTM A240/A240M**>>, << **16-gauge, 0.625-inch (1.587 mm)**>> stainless steel, with guides incorporated into jamb design, reinforced by << **12-gauge, 0.1046-inch (2.66 mm)**>> mounting structure.
 - a. Finish: No.4 satin.
- 14. Sill:
 - a. Manufacturer's standard sheet metal, << **14-gauge, 0.078-inch (1.98 mm)**>> stainless steel.
 - 1) Finish: No.4 satin.
 - b. Not required.
- 15. Manual Operation: << **Hand crank; Push-up;** or _____>>.

2.04 WOOD COILING COUNTER DOORS

- A. Wayne Dalton, Model 530.
 - 1. Slats: Interlocking wood slats.
 - 2. Width: << _____ feet (_____ mm)>>.
 - 3. Height: << _____ feet (_____ mm)>>.
 - 4. Mounting: << **Surface-mounted on side indicated on drawings; Between jamb;** or _____>>.

5. Opening Speed: Door to operate at variable speed up to << **8 inches (203 mm)**>> per second.
 6. Closing Speed: Door to operate at variable speed up to << **12 inches (305 mm)**>> per second.
 7. Door Warranty: One year.
 8. Curtain Material: Wood; endlocks attached to alternate slats maintain curtain alignment and prevent lateral slat movement.
 - a. Slat Profile: << **1-3/4 inches (16 mm)**>> high by << **1/2 inch (13 mm)**>> thick.
 - b. Wood Species: << **Birch; Douglas fir; Red oak; White oak; or _____**>>.
 - c. Finish: Unfinished.
 9. Bottom Bar: Wood to match curtain.
 10. Locking Options to Include:<< **Cylinder.; Best cylinder.; _____.; or None - N/A**>>
 - a. Lock Locations: << **Both jambs; Left jamb only; Right jamb only; or _____**>>.
 - b. Lock Access: << **Coil side; Opposite coil side; or _____**>>.
 11. Side Guides, Channels: Constructed of wood to match curtain.
 12. Brackets: Galvanized steel to support counterbalance assembly and curtain, covered with wood to match curtain.
 13. Counterbalance Assembly: Helical-torsion-spring type, housed in steel tube or pipe barrel and supporting curtain with deflection limited to << **0.03 inch per foot (2.5 mm per m)**>> of span; adjustable spring tension required.
 14. Hood: << **Wood; Not required; or _____**>>.
 - a. Finish: Match curtain.
 15. Manual Operation: << **Push-up; Hand crank; or _____**>>.
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16. Motor Operation: Provide UL-listed electric operator; size as recommended by manufacturer to move door in either direction minimum << **8 inches (203 mm)**>> and maximum << **12 inches (305 mm)**>> per second.
 - a. Manual Override: Crank.
 - b. Operation Supply Voltage: << **115/208/230 V, 1-phase, 60 Hz; 208/230/460 V, 3-phase, 60 Hz; 220 V, 1-phase, 50 Hz; 220 V, 3-phase, 50 Hz; 400 V, 3-phase, 50 Hz; 575 V, 3-phase, 60 Hz; or _____**>>.
 - c. Actuation: Provide push button.
 - d. Motor Mounting: Within door coil.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify adjacent construction is suitable for door installation.
- B. Verify electrical services have been installed and are accessible.
- C. Verify door opening is plumb, header is level, and dimensions are correct.
- D. Notify <<**Architect**>> of unacceptable conditions or varying dimensions.
- E. Commencement of installation indicates acceptance of substrate and door opening conditions.

3.02 INSTALLATION

- A. Install units 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;** _____ .; or **None - N/A**>>
- D. Fit and align assembly including hardware; level and plumb to provide smooth operation.
- E. Coordinate installation of electrical service; see Section << **260583**>>.
- F. Complete wiring from disconnect to unit components.
- G. Complete wiring from fire alarm system.
- H. Install perimeter trim as shown on drawings.

3.03 TOLERANCES

- A. Maintain dimensional tolerances and alignment with adjacent work.
- B. Maximum Variation from Plumb: << **1/16 inch (1.5 mm);** or _____ inch (_____ mm)>>.
- C. Maximum Variation from Level: << **1/16 inch (1.5 mm);** or _____ inch (_____ mm)>>.
- D. Longitudinal or Diagonal Warp: Plus or minus << **1/8 inch per 10 feet (3 mm per 3 m);** or _____ inch per 10 feet (_____ mm per 3 m)>> straight edge.

3.04 ADJUSTING

- A. Adjust operating assemblies for smooth and noiseless operation.

3.05 CLEANING

- A. See Section << **017000 - Execution and Closeout Requirements**>> for additional requirements.
- B. Clean installed components.
- C. Remove labels and visible markings.

END OF SECTION