



**SECTION 083323
UPWARD COILING DOORS
MODEL 926**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Upward coiling service doors.

1.02 RELATED REQUIREMENTS

- A. Section << **079200 - Joint Sealants**>>: Sealing joints between frames and adjacent construction.
- B. Section << **083313 - Coiling Counter Doors**>>: Additional types of overhead coiling doors.
- C. Section << **087100 - Door Hardware**>>: Cylinder cores and keys.
- D. Section << **260583 - Wiring Connections**>>: Power to disconnect.

1.03 REFERENCE STANDARDS

- A. ASHRAE Std 90.1 I-P - Energy Standard for Buildings Except Low-Rise Residential Buildings; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.
- B. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process; 2023.
- C. ASTM E90 - Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements; 2023.
- D. ASTM E330/E330M - Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference; 2014 (Reapproved 2021).
- E. FBC TAS 201 - Impact Test Procedures; Testing Application Standard; 1994.
- F. FBC TAS 202 - Criteria for Testing Impact and Non-Impact Resistant Building Envelope Components Using Uniform Static Air Pressure; Testing Application Standard; 1994.
- G. UL (DIR) - Online Certifications Directory; Current Edition.

1.04 SUBMITTALS

- A. Product Data: Submit manufacturer's standard literature showing materials and details of construction and finish.<< **Include data on electrical operation.**; or **None - N/A**>>
- B. Shop Drawings: Indicate rough and actual opening dimensions, anchorage methods, hardware locations, and installation details.
- C. Manufacturer's Instructions: Indicate installation sequence and installation, adjustment, and alignment procedures.
- D. Manufacturer's qualification statement.

- E. Installer's qualification statement.
- F. Operation and Maintenance Data: Indicate modes of operation, lubrication requirements and frequency, and periodic adjustments required.
- G. Specimen warranty.

1.05 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in performing work of this section with minimum of << **5 years; or _____ years**>> of<< **documented; _____; or None - N/A**>> experience in fabrication and installation of security closures.
- B. Installer Qualifications: Company specializing in performing work of this section with minimum of << **3 years; or _____ years**>> of<< **documented; _____; or None - N/A**>> experience and approved by manufacturer.
- C. Products Requiring Electrical Connection: Listed and classified by << **UL (DIR); TUV; testing firm acceptable to authorities having jurisdiction; or _____**>> as suitable for purpose specified.

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 Door-Only Warranty: Provide manufacturer warranty for door assembly for duration indicated under individual doors. 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 UPWARD COILING SERVICE DOORS

- A. Wayne Dalton; Model 926 Rolling Service Door.
 1. Slats: Interlocking, roll-formed, galvanized steel slats.

 2. Width: << _____>>.

 3. Height: << _____>>.
 4. Mounting: << **Surface-mounted on side indicated on drawings; or Between jamb**>>.
 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. Operation Cycles: Capable of operating for minimum 20,000 cycles. One operation cycle is complete when door is opened from closed position to fully open position and returned to closed position.
8. Available Warranty:
 - a. Door Only: Two years.
 - b. Door and Operator Warranty: Three years or 20,000 cycles, whichever comes first.
9. Wind Load: Design door assembly to withstand ultimate static pressure load of << **20 psf (0.96 kPa)**>>.
10. Curtain Material: << **26-gauge, 0.217-inch (0.55 mm)**>> galvanized steel. Staking lock system locks end of each slat from lateral movement.
 - a. Slat Profile: No.17, << **2-inch (51 mm)**>> flat crown profile.
 - b. Finish: Standard polyester base coat.
 - 1) Color: White.
11. Bottom Bar: Steel.
 - a. Profile: Double angle.
 - b. Finish: << **Hot-dip galvanized; Mill finish; Galvanized, primed black; Bronze anodized; or PowderGuard Premium powder coat; _____ color**>>.
12. Locking Options to Include: << **None; Slide lock; Cylinder; or Best cylinder**>>.
 - a. Lock Locations:
 - b. Lock Access: Coil side.
13. Weatherstripping and Seals:
 - a. Bottom Seal Astragal: << **Required; or Not required**>>.
 - b. Lintel Brush Seal: << **Required; or Not required**>>.
14. Side Guides, Channels: Constructed of steel with members fully bolted together.
 - a. Finish: << **Galvanized; or Powder coated; _____ color**>>.
15. Brackets: Steel to support counterbalance and curtain.
 - a. Finish: << **Galvanized; or Powder coated; _____ color**>>.
16. Counterbalance: Helical torsion spring type, housed in steel tube or pipe barrel and supporting curtain with deflection limited to << **0.03 inch per foot (1:400 mm/sec)**>> of span. Adjustable spring tension required.
17. Hood: << **Not required; or 24-gauge, 0.0278-inch galvanized steel (0.63 mm galvanized steel)**>>.
 - a. Finish: << **Match curtain; Standard polyester base coat; white color; Standard polyester base coat; brown color; or PowderGuard Premium powder coat; _____ color**>>.
18. Manual Operation: << **Push-up; Chain hoist; Bracket-mounted crank; or Wall-mounted crank**>>.
19. Motor Operation: << **Not required; or Provide UL-listed electric operator; size as recommended by manufacturer to move door in either direction at minimum 8 inches (203 mm), maximum 1 foot (305 mm) per second**>>.
 - a. Manual Override: << **Hoist; Hoist and jackshaft release; or Jackshaft release**>>.
 - b. Timer to Close: << **Not required; or Automatic closing controlled by adjustable hold-open time delay**>>.
 - c. Operation Supply Voltage: << **115/208/230V 1-phase 60Hz; 208/230/460V 3-phase 60Hz; 575V 3-phase 60Hz; 220V 1-phase 50Hz; 220V 3-phase 50Hz; or 400V 3-phase 50Hz**>>.
 - d. Signaling Device: << **Horn and strobe combination; or Traffic warning light**>>.

- e. Actuation Device: Provide << **push button; key switch; pull cord; loop detector; motion detector; treadle switch; and radio control**>>.
- f. Motor Mounting: << **Wall-mounted; or Front of hood**>>, << **right-hand side; or left-hand side**>>.
- g. Motor Enclosure: << **Not required; NEMA 4-12 watertight and oiltight; NEMA 4X corrosion-resistant; Totally enclosed, fan-cooled motor; or Totally enclosed, non-ventilated**>>.
- h. Obstruction Safety Detection: Constant contact button only.
- i. Obstruction Safety Detection:
 - 1) Primary, Monitored:
 - (a) Photo Eyes: << **Reflective photo-eyes; Thru-beam photo-eyes; or NEMA 4X photo-eyes**>>.
 - (b) Light Curtain: << **3 feet (0.9 m); 6 feet (1.8 m); or _____ feet (_____ m)**>>.
 - (c) Safety Edge: << **2-wire reversing safety edge; Wireless reversing safety edge; or _____**>>.
 - 2) Secondary, Non-Monitored:
 - (a) Photo Eyes: << **Reflective photo-eyes; Thru-beam photo-eyes; or _____**>>.
 - (b) Light Curtain: << **3 feet (0.9 m); 6 feet (1.8 m); or _____ feet (_____ m)**>>.
 - (c) Safety Edge: << **2-wire reversing safety edge; or _____**>>.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify << **existing conditions; and _____**>> meet manufacturer's requirements before starting work.
- B. Verify opening sizes, tolerances, and conditions are acceptable.

3.02 INSTALLATION

- A. Install in accordance with manufacturer's written instructions.
- B. Use anchorage devices to securely fasten assembly to wall construction and building structure 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. Install enclosure and perimeter trim.

3.03 TOLERANCES

- A. Maintain dimensional tolerances and alignment with adjacent work.
- B. Maximum Variation from Plumb: << **1/16 inch (1.6 mm); or _____ inch (_____ mm)**>>.
- C. Maximum Variation from Level: << **1/16 inch (1.6 mm); or _____ inch (_____ mm)**>>.
- D. Longitudinal or Diagonal Warp: Plus or minus << **1/8 inch per 10 feet (3.2 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.

3.06 PROTECTION

- A. Protect finishes until completion of project.
- B. Touch up damaged finishes after Date of Substantial Completion.

END OF SECTION