



**SECTION 083323  
UPWARD COILING DOORS  
MODEL 523**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Upward coiling security shutters.

**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. ICC (IECC)-2018 - International Energy Conservation Code; 2018.
- H. 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 and Operator Warranty: Provide manufacturer's limited warranty for door and operator system free from material and workmanship defects for duration and cycles indicated under individual doors; counterbalance spring and finish not covered by warranty.

## 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 SECURITY SHUTTERS

- A. Wayne Dalton; Model 523 Security Shutter.
  - 1. Slats: Interlocking, extruded aluminum 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. Curtain Material: << **0.050-inch (1.27 mm)**>> thick aluminum.
  - a. Fenestrated Slats: << **Not required; Open fenestration; 1-by-1-inch (25.4 by 25.4 mm) uniformly spaced openings over full curtain; Partially open fenestration; 1-by-1-inch (25.4 by 25.4 mm) uniformly spaced openings. Height of fenestrated curtain segment as indicated on drawings; Perforated slats; full curtain; or Perforated slats; partial curtain. Height of perforated curtain segment as indicated on drawings**>>.
  - b. Aluminum Finish: << **White; Almond; Silver powder coat to match look of clear anodized aluminum; Bronze powder coat to match look of bronze anodized; or Powder coat; \_\_\_\_\_ color**>>.
8. Bottom Bar: 6063-T6 aluminum.
  - a. Profile: << **Compact extruded; or Extruded tube**>>.
  - b. Finish: Match curtain.
9. Locking Options to Include: << **None; Slide lock; Cylinder; or Best cylinder**>>.
  - a. Lock Locations: << **Both jambs; Left only; Right only; or Center**>>.
  - b. Lock Access: << **Coil side; Opposite coil side; or Both sides**>>.
  - c. Interlock micro switch on locking doors with tube motor operation.
10. Weatherstripping and Seals:
  - a. Bottom Seal Astragal: Required.
11. Side Guides, Channels: Constructed of aluminum extruded channels with continuous PVC wear strips.
  - a. Finish: Match curtain.
12. Brackets: Galvanized steel to support counterbalance, curtain, and hood.
  - a. Finish: Match curtain.
13. 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.
14. Hood: Aluminum. Box sized to match manufacturer's recommendation based on door height. Provide with intermediate support brackets as required on drawings.
  - a. Finish: << **Match curtain; or Powder coat; \_\_\_\_\_ color**>>.
15. Manual Operation: << **Push-up; or Crank**>>.
16. Motor Operation: Provide UL-listed electric tube motor; 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: << **Not required; or Crank**>>.
  - b. Operation Supply Voltage: << **110V; or 240V**>>.
  - c. Actuation: Double throw, hard-wired wall switch.
  - d. Motor Mounting: Within counterbalance tube.

## **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**