**SECTION 083323**
**UPWARD COILING DOORS**
**MODEL 800 ADV**

## PART 1 GENERAL

### 1.01 SECTION INCLUDES

A. High-performance springless 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. 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 HIGH-PERFORMANCE SPRINGLESS UPWARD COILING SERVICE DOORS**

A. Wayne Dalton; Model 800 ADV.

1. Slats: Interlocking, roll-formed, metal slats.

2. Width: **<< _____>>**.

3. Height: **<< _____>>**.
4. Mounting: Surface mounted on side indicated on drawings.
5. Opening Speed: Door to operate at variable speed up to **<< 24 inches (610 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 one million 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. Limited Warranty: Five years or one million cycles, whichever comes first.

9. Wind Load: Design door assembly to withstand ultimate static pressure load of **<< 20 psf (0.96 kPa); 31 psf (1.48 kPa); 37 psf (1.77 kPa); 44 psf (2.11 kPa); 47 psf (2.25 kPa); 50 psf (2.39 kPa); 53 psf (2.54 kPa); 55 psf (2.63 kPa); or 56 psf (2.68 kPa)>>** in accordance with **<<ASTM E330/E330M>>**.
10. Wind Load: Not required.

11. Impact Rating: Available with certification for large missile impact resistance (**<<FBC TAS 201>>** and **<<FBC TAS 202>>**), with design pressure of **<< _____ psf (_____ Pa)>>** at **<< _____ feet (_____ mm)>>** wide.**<< This design is approved by the Florida Building Commission,; This design is approved by Miami Dade NOA,; or None - N/A>> << FL # _____; TDI # _____; or None - N/A>>**.
12. Impact Rating: Not required.
13. Curtain Material: **<< Galvanized steel; or Aluminum>>**. Staking lock system locks end of each slat from lateral movement.
    a. Galvanized Steel: **<< 22 gauge, 0.037 inch (0.853 mm); or _____ gauge, _____ inch (_____ mm)>>**.
       1) Finish: Hardened powder coat; **<< white; tan; gray; or _____>>** color.
    b. Aluminum: **<< 0.040 inch (1.02 mm); or _____ inch (_____ mm)>>**.
       1) Finish: **<< Mill finish; Clear anodized; Black anodized; Bronze anodized; or Hardened powder coat; _____ color>>**.
    c. Slat Profile: No.14, **<< 3-inch (76 mm)>>** tall flat slat.
    d. Fenestrated Slats: **<< Not required; 3/4 by 5 inch (19 by 127 mm) holes; or 3/4 by 5 inch (19 by 127 mm) holes with Plexiglas covers>>**.
14. Bottom Bar: **<< 6063-T6 aluminum; Galvanized steel; or 304 Stainless steel>>**.
    a. Profile: Double angle.
    b. Finish: **<< Mill finish; Clear anodized; Bronze anodized; Hot-dip galvanized; Powder coat; or Stainless No.4 satin>>**.
       1) Color: **<< Match curtain; Black; or _____>>**.
15. Weatherstripping and Seals:
    a. Bottom Sensing Edge Seal: Included.
    b. Interior Guide Seal: **<< Required; or Not required>>**.
    c. Exterior Guide Seal: **<< Required; or Not required>>**.

d. Lintel Brush Seal: **<< Required; or Not required>>**.

16. Side Guides, Channels: Constructed of **<< steel; or 304 stainless steel>>** with members fully bolted together.
    a. Finish: **<< Hot-dip galvanized; Galvanized, primed black; Powder coat; or Stainless No.4 satin>>**.
        1) Color: **<< Match curtain; Black; or _____>>**.
17. Brackets: Steel to support counterbalance and curtain.
    a. Finish: **<< Hot-dip galvanized; Galvanized, primed black; or Powder coat>>**.
        1) Color: **<< Match curtain; or _____>>**.
18. Door Roll: Directly driven, springless roll constructed of steel tube with integral shafts, keyed on drive end and supported by self-aligning, greasable, sealed bearings. Counterbalance device not required.
19. Hood: **<< Not required; 24 gauge, 0.024 inch stainless steel (0.61 mm stainless steel); 24 gauge, 0.028 inch galvanized steel (0.63 mm galvanized steel); 22 gauge, 0.025 inch B&S aluminum (0.64 mm B&S aluminum); or _____ gauge, _____ inch (_____ mm)>>**.
    a. Finish: **<< Galvanized, primed to match curtain; Hot-dip galvanized; Clear anodized; Bronze anodized; Mill finish; Powder coat; _____ color; or Stainless No.4 satin>>**.
20. Motor Operation: Direct drive, integrated gear motor and brake assembly; size as recommended by manufacturer to move door in either direction at minimum **<< 8 inches (203 mm)>>**, maximum **<< 1 foot (305 mm)>>** per second. Operator and drive assembly is factory preassembled and provided with wiring harnesses needed direct from factory.
    a. Manual Override: Hoist.
    b. Timer to Close: Time-delay self-close timer and non-resettable cycle counter.
    c. Operation Supply Voltage: **<< 208V 1-phase 60Hz; 208V 3-phase 60Hz; 575V 3-phase 60Hz; 220V 1-phase 50Hz; 230V 3-phase 50Hz; or 460V 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: Shaft mount.
    g. Obstruction Safety Detection:
        1) Primary, Monitored: Wireless reversing safety edge.
        2) Secondary, Non-Monitored: **<< Reflective photo-eyes; Dual reflective photo-eyes; Thru-beam photo-eyes; or Dual thru-beam photo-eyes>>**.
    h. Control Panel: Provide electronic variable frequency drive controller with microprocessor self-diagnostics. LCD readout indicates door action, alarm conditions, and fault conditions. Enclosure is NEMA 4X-rated. Control system is UL-certified. Junction box is IP67-rated.

## 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**