



**SECTION 083323  
UPWARD COILING DOORS  
MODEL 780CD**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Upward coiling sheet 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-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 SHEET DOORS

- A. Wayne Dalton; Model 780CD sheet door.

1. Width: << \_\_\_\_\_>>.
2. Height: << \_\_\_\_\_>>.
3. Mounting: Surface mounted on side indicated on drawings.

4. Opening Speed: Door to operate at variable speed up to << **8 inches (203 mm)**>> per second.
5. Closing Speed: Door to operate at variable speed up to << **12 inches (305 mm)**>> per second.
6. Operation Cycles: Capable of operating for minimum 10,000 cycles. One operation cycle is complete when door is opened from closed position to fully open position and returned to closed position.
7. Curtain: << **26-gauge, 0.217-inch (0.55 mm)**>> galvanized steel sheets.
  - a. Finish: Standard polyester base coat; << **white; glossy white; silhouette gray; buckskin; desert tan; garnet red; walnut brown; polar blue; royal blue; teal; dark teal; forest green; bronze; or matte black**>> color.
8. Bottom Bar: Extruded aluminum reinforced with << **1-1/2- by 2-inch (38 by 51 mm)**>> roll-formed steel angle and provided with flexible PVC bulb-type astragal to ensure consistent seal along floor. Extrusion designed to interlock with door curtain.
  - a. Bottom Bar Stops: << **12-gauge, 0.108-inch (2.75 mm)**>> galvanized steel with quick-connect design allowing curtain insertion into universal guide and lock into place with one fastener.
  - b. Finish: Mill finish.
9. Locking Options to Include: << **None; Slide lock; or Slide lock that accepts cylinder or padlock**>>.
  - a. Lock Locations: << **Both jambs; Left only; or Right only**>> in bottom bar.
  - b. Lock Access: << **Coil side; or Opposite coil side**>>.
  - c. Optional Dual Exterior Slide Bolt Curtain Locks: << **Required; or Not required**>>.
10. Weatherstripping and Seals:
  - a. Bottom Seal Astragal: Included.
11. Guides: << **3 inches (76 mm)**>> wide, roll-formed, << **18-gauge, 0.0478-inch (1.21 mm)**>> steel guides with UHMW polypropylene rub strips on each edge. Through-hole design allows easy access from front for fastener attachment to concrete, wood, steel, or masonry jambs. Prepunched to accept quick-connect attachment of bottom bar stops.
  - a. Finish: Galvanized.
12. Headplates: << **Heavy-duty thick welded steel; Stamped steel; or \_\_\_\_\_**>> mounted directly to wall to support door shaft and ensure smooth door roll operation.
  - a. Finish: Galvanized.
13. Counterbalance: Assembly includes stepped design steel rings with steel roller bearings to ensure tight, uniform curtain wrap, enhanced door operation, and cycle life; factory-lubricated << **3-3/8-inch (86 mm)**>> inside diameter springs; and << **1-5/16-inch (35 mm)**>> diameter shaft with << **0.065-inch (1.65 mm)**>> wall thickness to minimize door deflection. Design allows quick assembly of non-handed chain hoist on either side of door.
14. Manual Operation: << **Push-up; or Chain hoist**>>.
15. Motor Operation: 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. Obstruction Safety Detection: Infrared sensor mounted in-plane to door curtain.
- h. Reversing Safety Edge: << **Not required; Door provided with wireless monitored electric safety edge; or Door provided with wired monitored electric safety edge**>>.

## **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**