



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

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. 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.
- B. 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 SERVICE DOORS

- A. Wayne Dalton; Model 800C Insulated Rolling Service Door.
 - 1. Slats: Insulated, interlocking, roll-formed, metal 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 << **6 to 12 inches (152 to 305 mm)**>> per second.
6. Closing Speed: Door to operate at variable speed up to << **6 to 12 inches (152 to 305 mm)**>> per second.
7. Operation Cycles: Capable of operating for minimum << **20,000; 50,000; 100,000; or 200,000**>> 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); 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, FL # _____ ; This design is approved by Miami Dade NOA.; Texas Department of Insurance.; or None - N/A**>>
12. Impact Rating: Not required.
13. Curtain Material: Staking lock system locks end of each slat from lateral movement.
 - a. Front Slat:
 - 1) Galvanized Steel: << **18 gauge, 0.0516 inch (1.31 mm); 20 gauge, 0.0396 inch (1.01 mm); 22 gauge, 0.0336 inch (0.86 mm); 24 gauge, 0.0278 inch (0.63 mm); or _____ gauge, _____ inch (_____ mm)**>>.
 - 2) Aluminum: << **0.040 inch (1.02 mm); or _____ inch (_____ mm)**>>.
 - 3) Stainless Steel: << **18 gauge, 0.05 inch (1.27 mm); 20 gauge, 0.0359 inch (0.91 mm); 22 gauge, 0.0299 inch (0.76 mm); or _____ gauge, _____ inch (_____ mm)**>>.
 - b. Back Slat:
 - 1) Galvanized Steel: << **24 gauge, 0.0278 inch (0.63 mm); 22 gauge, 0.0336 inch (0.86 mm); or _____ gauge, _____ inch (_____ mm)**>>.
 - 2) Aluminum: << **0.024 inch (0.6 mm); 0.040 inch (1.02 mm); or _____ inch (_____ mm)**>>.
 - 3) Stainless Steel: << **24 gauge, 0.239 inch (0.61 mm); or _____ gauge, _____ inch (_____ mm)**>>.
 - c. Slat Profile: No.34, << **3-inch (76 mm)**>> tall flat slat.
 - d. Slat R-Value: << **R-value (RSI-value): 7.7 (1.35)**>>.
 - e. Installed System Sound Rating: STC-21 in accordance with <<**ASTM E90**>>.
 - f. Air Infiltration: Meets <<**ASHRAE Std 90.1 I-P**>> and <<**ICC (IECC)-2018**>> C402.4.3 air leakage of fenestration, maximum 1.00 cfm/sq ft.
 - g. Vision Lites: << **Not required; 3/4 by 5 inches (19 by 127 mm) with Plexiglas covers; or 1 by 10 inches (25 by 254 mm) with Plexiglas covers**>>.

- h. Galvanized Steel Finish: << **Primed white; Primed gray; Primed beige; Primed brown; G90 (Z275); G90 (Z275), primed gray; or Powder coat; _____ color**>>.
- i. Aluminum Finish: << **Mill finish; Clear anodized; Bronze anodized; Black anodized; or Powder coat; _____ color**>>.
- j. Stainless Steel Finish: << **No.2B mill; or No.4 satin**>>.
- 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; Galvanized, primed black; Powder coat; or Stainless No.4 satin**>>.
 - 1) Color: << **Match curtain; Black; or _____**>>.
- 15. Locking Options to Include: << **None; Slide lock; Thumbturn; Cylinder; or Best cylinder**>>.
 - a. Lock Locations: << **Both jambs; Left only; or Right only**>>.
 - b. Lock Access: << **Coil side; or Opposite coil side**>>.
- 16. Weatherstripping and Seals:
 - a. Bottom Seal Astragal: Included.
 - b. Exterior Guide Seal: << **Required; or Not required**>>.
 - c. Interior Guide Seal: << **Required; or Not required**>>.
 - d. Internal Hood Seal: Included.
 - e. Lintel Brush Seal: << **Required; or Not required**>>.
 - f. Air Infiltration: Meets <<**ASHRAE Std 90.1 I-P**>> and <<**ICC (IECC)-2018**>> C402.4.3 air leakage of fenestration, maximum 1.00 cfm/sq ft.
 - 1) Air infiltration perimeter seal package includes guide cover, guide cap, dual brush exterior guide seal, << **4-inch (101.6 mm)**>> finned lintel brush seal, and vinyl bottom seal.
- 17. Side Guides, Channels: Constructed of << **steel; 304 stainless steel; or aluminum**>> with members fully bolted together.
 - a. Finish: << **Galvanized, primed black; Hot-dip galvanized; Mill finish; Clear anodized; Bronze anodized; Powder coat; or Stainless No.4 satin**>>.
 - 1) Color: << **Match curtain; Black; or _____**>>.
- 18. Brackets: << **Steel; or 304 Stainless steel**>> to support counterbalance and curtain.
 - a. Finish: << **Galvanized, primed black; Hot-dip galvanized; Powder coat; or Stainless No.4 satin**>>.
 - 1) Color: << **Match curtain; or _____**>>.
- 19. 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.
- 20. 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**>>.

21. Manual Operation: << **Chain hoist; or Crank**>>.
22. 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: << **Reflective photo-eyes; Thru-beam photo-eyes; NEMA 4X photo-eyes; 2-wire reversing safety edge; Wireless reversing safety edge; 3-foot (0.9 m) light curtain; or 6-foot (1.8 m) light curtain**>>.
 - 2) Secondary, Non-Monitored: << **Reflective photo-eyes; Thru-beam photo-eyes; 2-wire reversing safety edge; 3-foot (0.9 m) light curtain; or 6-foot (1.8 m) light curtain**>>.

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