



**SECTION 083323
UPWARD COILING DOORS
MODEL 770SS**

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 770SS 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: Roll-formed, << **26 gauge, 0.217 inch (0.55 mm)**>>, << **G30 (Z90)**>> galvanized steel sheet in accordance with << **ASTM A653/A653M**>>, SS Grade 80. Sections interlocked and permanently seamed together to form continuous curtain. Provided with PVC edge strip stapled on edge of exterior side to minimize steel-to-steel contact, enhance door operation, and minimize curtain nesting and scratching.
 - a. Finish: Rust-inhibitive roll coating process, including << **0.2 mil (0.0051 mm)**>> baked-on prime paint and << **0.6 mil (0.015 mm)**>> baked-on polyester top coat.
 - 1) Color: << **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**>>.
8. Bottom Bar: Extruded aluminum reinforced with << **1-1/2-by-1-1/2-inch (38 by 38 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: << **1-5/8 inches (41 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 headplate and bottom bar stops.
 - a. Finish: Galvanized.
12. Headplates: << **14-gauge, 0.0747-inch (1.90 mm)**>> steel with steel roller bearings to prevent steel-to-steel contact for improved door operations and extended door shaft life. Quick-connect design for quick assembly to guides.
 - a. Finish: Galvanized.
13. Counterbalance: Assembly includes stepped design steel rings to ensure tight and uniform curtain wrap, << **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.
14. Manual Operation: Push-up.

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