



~~~~~ **MASTER NOTE** ~~~~~

*Steel and aluminum overhead sectional doors; manual and electric; glazing. SECTION 08 3613 - SECTIONAL DOORS - OVERHEAD DOORS (08360 - SECTIONAL OVERHEAD DOORS - OVERHEAD DOORS), Copyright 2025, Wayne Dalton.*

Display hidden notes to specifier. (Don't know how? [Click Here](#))

~~~ **END OF MASTER NOTE** ~~~

SECTION 083613 - SECTIONAL DOORS – WAYNE DALTON

PART 1 GENERAL

Section Includes

- A. Overhead sectional aluminum doors.

1.02 RELATED REQUIREMENTS

- A. Section **079200 - Joint Sealants**: Sealing joints between frames and adjacent construction.
- B. Section **087100 - Door Hardware**: Lock cylinders.

Section **260533.13 - Conduit for Electrical Systems**: Conduit from electric circuit to operator and from operator to control station, and empty conduit from control units to door operator.

- D. Section **260583 - Wiring Connections**.

1.03 REFERENCE STANDARDS

- A. ITS (DIR) - Directory of Listed Products; Current Edition.
- B. UL (DIR) - Online Certifications Directory; Current Edition.
- C. UL 325 - Standard for Door, Drapery, Gate, Louver, and Window Operators and Systems; Current Edition, Including All Revisions.

SUBMITTALS

- A. See Section **013000 - Administrative Requirements** for submittal procedures.
- B. Product Data: Submit manufacturer's standard literature showing materials and details of construction and finish.<< **Include data on electrical operation.; or None - N/A>>**

- C. Shop Drawings: Indicate rough and actual opening dimensions, anchorage methods, hardware locations, and installation details.

Samples: << **Two**; or _____>> panel samples or color chips, << **4 inches long (102 mm long)**; or _____ inches long (_____ mm long)>>, illustrating shape, color, and finish texture.

Manufacturer's Installation Instructions: Indicate installation sequence and installation, adjustment, and alignment procedures.

~~~~~ **MASTER NOTE** ~~~~~

*Request qualification statements if qualifications are defined in PART 1 under QUALITY ASSURANCE article.*

~~~ **END OF MASTER NOTE** ~~~

- F. Manufacturer's qualification statement.

Installer's qualification statement.

- H. Operation and Maintenance Data: Indicate modes of operation, lubrication requirements and frequency, and periodic adjustments required.
- I. Specimen warranty.

Executed warranty.

- K. Project Record Documents: Include as-built electrical diagrams for electrical operation and connection to fire alarm system.

1.05 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with minimum << **5 years**; or _____ years>> of<< **documented**; or **None - N/A**>> experience.
- B. Installer Qualifications: Company specializing in performing work of type specified and with minimum << **3 years**; or _____ years>> of<< **documented**; _____; or **None - N/A**>> experience<< **and approved by manufacturer**; or **None - N/A**>>.
- C. Comply with << **applicable**; or _____>> code for motor and motor control requirements.

Products Requiring Electrical Connection: Listed and classified by << **ITS (DIR)**; **UL (DIR)**; **testing firm acceptable to authorities having jurisdiction**; or _____>>.

WARRANTY

- A. See Section **017800 - Closeout Submittals** for additional warranty requirements.

~~~~~ **MASTER NOTE** ~~~~~

*This paragraph requests a manufacturer warranty; the request may not be effective as the manufacturer is outside the jurisdiction of the Owner/Contractor contract. Coordinate this paragraph with the SUBMITTALS article.*

~~~ **END OF MASTER NOTE** ~~~

- B. Manufacturer Warranty: Provide manufacturer warranty for counterbalance shaft assembly for years indicated under individual doors. Complete forms in Owner's name and register with manufacturer.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Wayne Dalton<< ; _____; or None - N/A>>: <https://www.wayne-dalton.com/>
1. _____.
 2. _____.
 3. Substitutions: << **See Section 016000 - Product Requirements; or Not permitted**>>.

2.02 OVERHEAD SECTIONAL ALUMINUM DOORS

<< **None - N/A; or** _____ : >>Aluminum Sectional Doors: Wayne Dalton; <<**Model 453**>>.

1. Panels: Aluminum construction and reinforcement.

Width: _____ feet _____ inches (_____ m).

Height: _____ feet _____ inch (_____ m).

4. Mounting: Surface mounted on interior of building.
5. Opening Speed: Door to operate at variable speed of **6 to 12 inches (152 to 305 mm)** per second.
6. Closing Speed: Door to operate at variable speed of **6 to 12 inches (152 to 305 mm)** per second.

U-Factor: << **Not required; 0.30; or 0.28**>>.

~~~~~ MASTER NOTE ~~~~~

R-value (RSI-value) for Model 453:

With double strength billet (DSB) clear, tempered, or obscure glazing IGUs: R-value (RSI-value): 2.87 (0.51).

With clear polycarbonate IGUs: R-value (RSI-value): 2.93 (0.52).

With solar bronze IGUs: R-value (RSI-value): 3.17 (0.56).

With Low-E coating IGUs: R-value (RSI-value): 3.43 (0.60).

With SolarBan 70XL argon-filled IGUs: R-value (RSI-value): 4.09 (0.72).

With 1/4-inch thick multi-wall polycarbonate: R-value (RSI-value): 2.75 (0.48).

With 3/8-inch thick multi-wall polycarbonate: R-value (RSI-value): 3.21 (0.57).

With 5/8-inch thick multi-wall polycarbonate: R-value (RSI-value): 3.48 (0.61).

With 3/8-inch extruded polystyrene-filled solid panels: R-value (RSI-value): 2.60 (0.46).

~~~ END OF MASTER NOTE ~~~

8. R-value (RSI-value): << **2.60 (0.46); 2.75 (0.48); 2.87 (0.51); 2.93 (0.52); 3.17 (0.56); 3.21 (0.57); 3.43 (0.60); 3.48 (0.61); or 4.09 (0.72)**>>.

Operation Cycles: Capable of operating for minimum << **10,000; 25,000; 50,000; 75,000; or 100,000**>> cycles. One operation cycle is complete when door is opened from closed position to fully open position and returned to closed position.

10. Available Warranty:
 - a. Door Only: One year.
11. Panel Material: Extruded 6063-T6 aluminum.
 - a. Panel Thickness: 1-3/4 inches (45 mm)>>.

Joint Profile: <<Shiplap>>.

- c. Section Height: Manufacturer's standard based on door height.

Glazing: << **Not required**; 1/8 inch (3 mm) DSB glass; 1/8 inch (3 mm) tempered DSB glass; 1/4 inch (6 mm) tempered DSB glass; 1/8 inch (3 mm) acrylic; 1/4 inch (6 mm) acrylic; 1/8 inch (3 mm) clear polycarbonate; 1/4 inch (6 mm) clear polycarbonate; 1/4 inch (6 mm) wired glass; 1/2 inch (13 mm) DSB glass; 1/2 inch (13 mm) tempered DSB glass; 1/2 inch (13 mm) acrylic; 1/2 inch (13 mm) polycarbonate; 1/4 inch (6 mm) opaque white; 1/4 inch (6 mm) opaque black; 1/4 inch (6 mm) mirrored gray; 1/4 inch (6 mm) mirrored bronze; or 1/4 inch (6 mm) translucent black>>.

Exterior Finish: << **Clear anodized**; Light bronze anodized; Medium bronze anodized; Dark bronze anodized; Black anodized; or Powder coat; color: _____>>.

12. Locking Options to Include: << **None**; Slide lock; or Cylinder>>.
 - a. Lock Locations: << **Both jambs**; Left only; or Right only>>.
13. Weatherstripping and Seals: << **Required**; or Not required>>.
14. Tracks: Constructed of steel with members fully bolted together.
 - a. Size: << **2 inches (51 mm)**; or 3 inches (76 mm)>>.
 - b. Finish: Galvanized steel.
15. Brackets: Steel to support counterbalance and curtain.
 - a. Finish: Hot-dip galvanized.
16. Springs: Rated for << **10,000**; 25,000; 50,000; 75,000; or 100,000>> cycles.

Manual Operation: << **Push-up**; or Chain hoist>>.

18. Motor Operation: Provide UL-listed electric operator; size as recommended by manufacturer to move door in either direction at minimum **6 inches (152 mm)**, maximum **12 inches (305 mm)** per second.
 - a. Timer to Close: << **Not required**; or Automatic closing controlled by adjustable hold-open time delay>>.
 - b. 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>>.
 - c. Signaling Device: << **Horn and strobe combination**; or Traffic warning light>>.
 - d. Actuation Device: Provide << **push button**; key switch; pull cord; loop detector; motion detector; treadle switch; and radio control>>.
 - e. Motor Mounting: << **Wall mounted**; or Trolley>>, << **right-hand side**; left-hand side; or center>>.
 - f. Motor Enclosure: << **Not required**; NEMA 4-12 watertight and oiltight; NEMA 4X corrosion-resistant; Totally enclosed, fan-cooled motor; or Totally enclosed, non-ventilated>>.
 - g. Obstruction Safety Detection: Infrared sensor mounted in-plane to door curtain at **6 inches (152 mm)** from floor.
 - 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 wall openings are ready to receive work and opening dimensions and tolerances are within specified limits.
- B. Verify electric power is available and meets manufacturer's requirements.

3.02 PREPARATION

- A. Prepare opening to permit correct installation of door unit to perimeter air and vapor barrier seal.
- B. Apply primer to wood frame.

3.03 INSTALLATION

- A. Install door unit assembly in accordance with manufacturer's instructions.
- B. Anchor assembly to wall construction and building framing without distortion or stress.
- C. Securely brace door tracks suspended from structure. Secure tracks to structural members only.
- D. Fit and align door assembly including hardware.
- E. Coordinate installation of electrical service. Complete power and control wiring from disconnect to unit components.
- F. Install << perimeter trim; closures; and _____ >>.

3.04 TOLERANCES

- A. Maximum Variation from Plumb: << 1/16 inch (1.5 mm); or _____ inch (_____ mm)>>.
- B. Maximum Variation from Level: << 1/16 inch (1.5 mm); or _____ inch (_____ mm)>>.
- C. Longitudinal or Diagonal Warp: Plus or minus << 1/8 inch in 10 feet (3 mm in 3 m); or _____ inch in 10 feet (_____ mm in 3 m)>> straight edge.
- D. Maintain dimensional tolerances and alignment with adjacent work.

3.05 ADJUSTING

- A. Adjust door assembly for smooth operation and full contact with weatherstripping.
- B. Confirm operation is in accordance with manufacturer's instructions with present field representative. Identify adjustments to door assembly.

3.06 CLEANING

- A. See Section 017000 - Execution and Closeout Requirements for additional requirements.
- B. Clean doors and frames<< and glazing; _____; or **None - N/A**>>.
- C. Remove<< temporary; _____; or **None - N/A**>> labels and visible markings.

3.07 PROTECTION

- A. Protect installed products from damage until Date of Substantial Completion.
- B. Do not permit construction traffic through overhead door openings after adjustment and cleaning.

END OF SECTION 083613