

The Genuine. The Original.



**SECTION 083613
SPRINGLESS ALUMINUM SECTIONAL DOORS
MODEL 521S**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Upward acting 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.
- C. 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.

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 Installation Instructions: Indicate installation sequence and installation, adjustment, and alignment procedures.
- D. Installer's qualification statement.
- E. Operation and Maintenance Data: Indicate modes of operation, lubrication requirements and frequency, and periodic adjustments required.
- F. Specimen warranty.

1.05 WARRANTY

- A. 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 MANUFACTURER

- A. Overhead Door Corporation; www.overheaddoor.com; 1 (800) 929-3667.
- B. Substitutions: Not permitted.

2.02 UPWARD ACTING SECTIONAL ALUMINUM DOORS

- A. Aluminum Sectional Doors: Overhead Door Corporation; Model 521S.
 - 1. Panels: Aluminum construction and reinforcement.
 - 2. Width: << feet inches (m)>>.
 - 3. Height: << feet inch (m)>>.
 - 4. Mounting: Surface mounted on interior of building.
 - 5. Opening Speed: Door to operate at speed of << 15.7 inches (399 mm)>> per second.
 - 6. Closing Speed: Door to operate at speed of << 10.4 inches (264 mm)>> per second.
 - 7. U-Factor: << 0.30; or 0.28>>.
 - 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)>>.
 - 9. Operation Cycles: Capable of operating for minimum 300,000 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)>>.
 - b. Joint Profile: Shiplap.
 - c. Section Height: Manufacturer's standard based on door height.

- d. 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; or 1/2 inch (13 mm) polycarbonate>>.
 - e. 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. Manual Operation: Chain Hoist.
 17. Motor Operation: Provide UL-listed direct drive, integrated gear motor and brake 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. Provide operator and drive assembly with all wiring harnesses needed from manufacturer.
 - a. Timer to Close: Automatic closing controlled by adjustable hold-open time delay.
 - b. Operation Supply Voltage: << **208V 1 phase 60 Hz, 190 to 207V range**; 208V 3 phase 60 Hz, 190 to 207V range; 230V 1 phase 60 Hz, 208 to 245V range; 230V 3 phase 60 Hz, 208 to 245V range; 460V 3 phase 60 Hz, 456 to 495V range; or 575V 3 phase 60 Hz>>.
 - c. Control Panel: << **Medium BTR Control**; or Full BTR Control>> Electronic controller with microprocessor self-diagnostics. Digital readout indicates door action, alarm conditions and fault conditions.
 - d. Signaling Device: << **Horn and strobe combination**; Traffic warning light; or LED Lights>>.
 - e. Actuation Device: Provide << **push button**; key switch; vehicle detection; loop detector; motion detector; treadle switch; radio control; door timer; and photocell operation>>.
 - f. Motor Mounting: Shaft mount.
 - g. Obstruction Safety Detection:
 - 1) Primary, Monitored:
 - (a) Safety Edge: << **Wireless electric sensing edge**; or 2-wire sensing edge>> complying with <<UL 325>>, 2010 edition.
 - 2) Secondary, Non-Monitored:
 - (a) Photoelectric Sensors: << **Reflective**; Dual; or _____>>.

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