

**The Genuine. The Original.**



**SECTION 083323  
UPWARD COILING DOORS  
MODEL 621 RAPIDSLAT**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. High-performance springless upward coiling service doors.

**1.02 RELATED REQUIREMENTS**

- A. Section << **079200 - Joint Sealants**>>: Sealing joints between frames and adjacent construction.
- B. Section << **087100 - Door Hardware**>>: Cylinder cores and keys.
- C. 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. 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 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 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. Overhead Door Corporation; www.overheaddoor.com; 1 (800) 929-3667.
- B. Substitutions: Not permitted.

### 2.02 UPWARD COILING SERVICE DOORS

- A. Overhead Door™ Brand; Model 621 RapidSlat.
  1. Slats: Interlocking, roll-formed, galvanized steel slats.
  2. Width: \_\_\_\_\_ **feet ( \_\_\_\_\_ mm)**.
  3. Height: \_\_\_\_\_ **feet ( \_\_\_\_\_ mm)**.
  4. Mounting: Surface mounted on side indicated on drawings.
  5. Opening Speed: Door to operate at variable speed up to << **24 inches (610 mm)**>> per second.
  6. Closing Speed: Door to operate at variable speed up to << **12 inches (305 mm)**>> per second.
  7. Operation Cycles: Capable of operating for minimum one million 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. Limited Warranty: For 5 years or one million cycles, whichever comes first.
9. Wind Load: Design door assembly to withstand ultimate static pressure load of << **20 psf (0.96 kPa); 26 psf (1.25 kPa); 31 psf (1.48 kPa); 36 psf (1.72 kPa); 41 psf (1.96 kPa); 50 psf (2.39 kPa); 57 to 130 psf (2.73 to 6.22 kPa); 65 psf (3.11 kPa); or 68.9 psf (3.29 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; Miami Dade NOA; Texas Department of Insurance; or None - N/A**>>, << **FL # \_\_\_\_\_; TDI # \_\_\_\_\_; \_\_\_\_\_; or None - N/A**>>.
12. Curtain Material:
- a. 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); or \_\_\_\_\_ gauge, \_\_\_\_\_ inch ( \_\_\_\_\_ mm)**>>.
- b. Aluminum: << **0.050 inch (1.27 mm); or \_\_\_\_\_ inch ( \_\_\_\_\_ mm)**>>.
- c. Stainless Steel: << **20 gauge, 0.0359 inch (0.91 mm); or \_\_\_\_\_ gauge, \_\_\_\_\_ inch ( \_\_\_\_\_ mm)**>>.
- d. Slat Profile: << **F-265; or FE-265**>>.
- e. Vision Lites: << **Not required; 5/8 by 3 inch (16 by 76 mm) with Plexiglas covers; or 1 by 10 inch (25 by 254 mm) with Plexiglas covers**>>.
- f. Galvanized Steel Finish: PowderGuard Max powder coat; << **white; tan; gray; or \_\_\_\_\_**>> color.
- g. Aluminum Finish: << **Mill finish; Clear anodized; Black anodized; Bronze anodized; or PowderGuard Premium powder coat; \_\_\_\_\_ color**>>.
- h. Stainless Steel Finish: << **No.2B mill; or No.4 satin**>>.
13. Bottom Bar: << **6063-T6 aluminum; Galvanized steel; or Stainless steel**>>.
- a. Profile: Double angle.
- b. Finish: << **Mill finish; Clear anodized; Black anodized; Bronze anodized; Hot-dip galvanized; PowderGuard Premium powder coat; PowderGuard Textured powder coat; PowderGuard Zinc powder coat; Stainless No.4 satin; or Stainless No.2B mill**>>.
- 1) Color: << **Black; Match curtain; or \_\_\_\_\_**>>.
14. Weatherstripping and Seals:
- a. Bottom Sensing Edge Seal: Included.
- b. Interior Guide Seal: << **Required; or Not required**>>.
- c. Exterior Guide Seal: << **Required; or Not required**>>.

- d. Internal Hood Seal: Included.
- e. Lintel Brush Seal: << **Required; or Not required**>>.
- 15. Side Guides, Channels: Constructed of steel with members fully bolted together.
  - a. Finish: << **Hot-dip galvanized; PowderGuard Premium powder coat; PowderGuard Textured powder coat; or PowderGuard Zinc powder coat**>>.
    - 1) Color: << **Black; Match curtain; or \_\_\_\_\_**>>.
- 16. Brackets: Steel to support counterbalance and curtain.
  - a. Finish: << **Match curtain; Galvanized, hot dipped; PowderGuard Premium powder coat; black color; PowderGuard Premium powder coat; \_\_\_\_\_ color; PowderGuard Textured powder coat; \_\_\_\_\_ color; or PowderGuard Zinc powder coat; \_\_\_\_\_ color**>>.
- 17. Door Roll: Directly driven, springless roll constructed of steel tube with integral shafts, keyed on drive end and supported by self-aligning, greasable, sealed bearings. Counterbalance device not required.
- 18. Hood: << **Not required; 24 gauge, 0.0278 inch galvanized steel (0.63 mm galvanized steel); 24 gauge, 0.0239 inch stainless steel (0.61 mm stainless steel); or Aluminum**>>.
  - a. Finish: << **Match curtain; Standard polyester base coat; gray color; Standard polyester base coat; tan color; Standard polyester base coat; white color; Galvanized G90 (Z275); Gray-primed galvanized G90 (Z275); PowderGuard Premium powder coat; \_\_\_\_\_ color; PowderGuard Textured powder coat; \_\_\_\_\_ color; Clear anodized; Black anodized; Bronze anodized; or Mill finish**>>.
- 19. Motor Operation: Direct drive, integrated gear motor and brake assembly; size as recommended by manufacturer to move door in either direction at minimum << **8 inches (203 mm)**>>, maximum << **1 foot (305 mm)**>> per second. Operator and drive assembly is factory preassembled and provided with wiring harnesses needed direct from factory.
  - a. Manual Override: Hoist.
  - b. Timer to Close: Time-delay self-close timer and non-resettable cycle counter.
  - c. Operation Supply Voltage: << **208V 1-phase 60Hz; 208V 3-phase 60Hz; 575V 3-phase 60Hz; 220V 1-phase 50Hz; 230V 3-phase 50Hz; or 460V 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: Shaft mount.
  - g. Obstruction Safety Detection:
    - 1) Primary, Monitored: Wireless reversing safety edge.
    - 2) Secondary, Non-Monitored: << **Reflective photo-eyes; Dual reflective photo-eyes; Thru-beam photo-eyes; or Dual thru-beam photo-eyes**>>.
  - h. Control Panel: Provide electronic variable frequency drive controller with microprocessor self-diagnostics. LCD readout indicates door action, alarm conditions, and fault conditions. Enclosure is NEMA 4X-rated. Control system is UL-certified. Junction box is IP67-rated.

## **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)>>.

### **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 Substantial Completion.

**END OF SECTION**