

The Genuine. The Original.



**SECTION 083323
UPWARD COILING DOORS
MODEL 627 INSULATED STORMTITE AP**

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 << **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-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. 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 627 Insulated Stormtite AP.
 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 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.
7. Operation Cycles: Capable of operating for minimum 20,000 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); 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. 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: << **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); or _____ gauge, _____ inch (_____ mm)**>>.
 - 2) Aluminum: << **0.024 inch (0.6 mm); or _____ inch (_____ mm)**>>.
 - 3) Stainless Steel: << **24 gauge, 0.239 inch (0.61 mm); or _____ gauge, _____ inch (_____ mm)**>>.
 - c. Slat Profile: FIT-265.
 - d. Slat R-Value: << **R-value (RSI-value): 10.9 (1.91)**>>.

- e. Through Curtain Sound Rating: STC-28 in accordance with <<ASTM E90>>; STC-30 minimum, with hertz noise generator.
 - f. Installed System Sound Rating: STC-21 in accordance with <<ASTM E90>>.
 - g. U-Factor: 0.84 NFRC test report, maximum U-factor of maximum 1.00.
 - h. Air Infiltration: Meets <<ASHRAE Std 90.1 I-P>> and <<ICC (IECC)-2018>> C402.4.3 air leakage, maximum 1.00 cfm/sq ft.
 - i. Vision Lites: << **Not required; 5/8 by 3 inches (16 by 76 mm) with Plexiglas covers; or 1 by 10 inches (25 by 254 mm) with Plexiglas covers**>>.
 - j. Galvanized Steel Finish:
 - 1) Standard polyester base coat.
 - (a) Color: << **White; Tan; Gray; or Brown**>>.
 - 2) << **PowderGuard Premium powder coat; PowderGuard Textured powder coat; or PowderGuard Max powder coat**>>.
 - (a) Color: << _____>>.
 - k. Aluminum Finish: << **Mill finish; Clear anodized; Black anodized; Bronze anodized; or PowderGuard Premium powder coat; _____ color**>>.
 - l. Stainless Steel Finish: << **No.2B mill; or No.4 satin**>>.
13. Bottom Bar: << **6063-T6 aluminum; Galvanized steel; or 304 Stainless steel**>>.
- a. Profile: << **Double angle; or Extruded tube**>>.
 - 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; or Stainless No.4 satin**>>.
 - 1) Color: << **Black; Match curtain; or _____**>>.
14. Locking Options to Include: << **None; Slide lock; Cylinder; or Best cylinder**>>.
- a. Lock Locations: << **Both jambs; Left only; or Right only**>>.
 - b. Lock Access: << **Coil side; or Opposite coil side**>>.
15. Weatherstripping and Seals:
- a. Bottom Seal Astragal: Included.
 - b. Interior and Exterior EPDM Triple-Seal Finned Guide Seal: Included.
 - c. Internal Hood Seal: Included.
 - d. Lintel Brush Seal: Included.
 - e. Air Infiltration Package: Comply with <<ICC (IECC)-2018>> C402.4.3 2012 air leakage, maximum 1.00 cfm/sq ft.
 - 1) Air infiltration perimeter seal package includes guide cover, guide cap, PVC weather seal on exterior of guide, EPDM triple-finned weather seal on interior of guide, lintel weather seal, and vinyl bottom seal.
16. 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 _____**>>.
- 17. Brackets: << **Steel; or 304 Stainless steel**>> to support counterbalance and curtain.
 - a. Finish: << **Match curtain; Hot-dip galvanized; PowderGuard Premium powder coat; black color; PowderGuard Premium powder coat; _____ color; PowderGuard Textured powder coat; _____ color; or PowderGuard Zinc powder coat; _____ color**>>.
- 18. 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.
- 19. 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; Gray; Tan; White; Brown; Galvanized G90; Gray-primed galvanized G90; PowderGuard Premium powder coat; _____ color; or PowderGuard Textured powder coat; _____ color**>>.
- 20. Manual Operation: << **Chain hoist; or Crank**>>.
- 21. 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)>>.

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