The Genuine. The Original.

SECTION 083323.13
RAPID COILING DOORS
MODEL 999

PART 1 GENERAL

1.01 SECTION INCLUDES

A. High-speed metal doors.

1.02 RELATED REQUIREMENTS

A. Section 260583 - Wiring Connections: Power to disconnect.

1.03 REFERENCE STANDARDS

A. ASTM A36/A36M - Standard Specification for Carbon Structural Steel; 2019.

B. ASTM A500/A500M - Standard Specification for Cold-Formed Welded and Seamless Carbon Steel Structural Tubing in Rounds and Shapes; 2023.

C. 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).

D. DASMA 403 - Specification for High Speed Doors and Grilles; 2024.

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. ITS (DIR) - Directory of Listed Products; Current Edition.

H. UL (DIR) - Online Certifications Directory; Current Edition.

1.04 SUBMITTALS

A. Product Data: Provide **<< general construction; electrical equipment; component connections and details; and _____>>**.

B. Shop Drawings: Indicate pertinent dimensioning, anchorage methods, hardware locations, and installation details.

C. Manufacturer's Instructions: Indicate installation sequence and procedure details, and adjustment and alignment instructions.

D. Manufacturer's qualification statement.

E. Installer's qualification statement.

F. Maintenance Data: Indicate **<< lubrication requirements and frequency; periodic adjustments required; and _____>>**.

G. Specimen warranty.

1.05 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section, with at least **<< three; or _____>>** years of**<< documented; _____; or None - N/A>>** experience.

B. Installer Qualifications: Company specializing in performing work of type specified and with at least **<< three; or _____>>** years**<< documented; _____; or None - N/A>>** experience**<< and approved by manufacturer; or None - N/A>>**.

C. Products Requiring Electrical Connection: Listed and classified by **<< ITS (DIR); UL (DIR); 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 Warranty: Provide 5-year manufacturer warranty. Complete forms in **<<Owner>>**'s name and register with manufacturer.

PART 2 PRODUCTS

2.01 MANUFACTURER

A. Overhead Door; www.overheaddoor.com; 1 (800) 929-3667.

B. Substitutions: Not permitted.

2.02 HIGH-SPEED METAL DOORS

A. Overhead Door™ Brand; Model 999 high-speed metal roll-up industrial door.

1. Curtain Panels: Polycarbonate sheet with proprietary abrasion- and UV-resistant surfaces.

2. Width: **<< _____feet (_____mm)>>**.

3. Height: **<< _____feet (_____mm)>>**.
4. Mounting: Surface-mounted **<< on side indicated on drawings; on interior side; or _____>>**.
5. Performance Standards: **<<DASMA 403>>** requirements for high-performance doors.
6. Opening Speed: Door to operate at variable speed up to **<< 80 inches (2032 mm)>>** per second.
7. Closing Speed: Door to operate at variable speed up to **<< 20 inches (508 mm)>>** per second.
8. Operation Cycles: Drive motor and gearbox capable of operating for not less than one million cycles. One operation cycle is complete when door is opened from closed position to fully open position and returned to closed position.

9. Usage Classification: Heavy duty. No chain and sprocket allowed.
10. Durability: Doors to operate at minimum of one million cycles when selected, installed, operated, and maintained.
11. Metal Curtain Components: 6063-T6 aluminum. Doors using hinges not made of metal not acceptable. Provide UV-resistant weather seal between aluminum panel sections.
    a. Finish: PowderGuard Premium powder coat.

    b. Color: **<< Silver; or _____>>**.
12. Bottom Bar: 6063-T6 aluminum with integrated wireless sensing edge.
    a. Finish: PowderGuard Premium powder coat.

    b. Color: **<< Silver; or _____>>**.
13. Weatherstripping and Seals: Vinyl seal located at guide edges and vinyl brush seal where curtain enters hood enclosure. Bottom seal is rubber astragal.

14. Side Guides, Channels: Constructed of high-strength steel with members fully bolted together. Guides have full-height weather seal.
    a. Finish: PowderGuard Premium powder coat.

    b. Color: **<< Silver; or _____>>**.
15. Door Header: Top-roll assembly fabricated of high-strength steel barrel, supported with powder-coated, high-strength steel brackets at each end with self-aligning bearings.
    a. Drum Barrel System: Minimum diameter, **<<ASTM A500/A500M>>** Grade B, high-strength steel pipe; minimum **<< 6-5/8-inch (168.3 mm)>>** diameter.
    b. Brackets: **<<ASTM A36/A36M>>** hot-rolled steel with heavy-duty, self-aligning bearings with cast iron housings; minimum **<< 1/4 inch (6 mm)>>** thick.
    c. Head frame provided with single brush seal along lintel.

    d. Finish: PowderGuard Premium powder coat in **<< black; or _____>>**.
16. Fascia: **<< Not required; Galvanized steel: 22 gauge, 0.03 inch (0.076 mm); Galvanized steel: _____ gauge, _____ inch (_____ mm); or _____>>**.

a. Finish: **<< Black polyester topcoat; Powder-coated to match door; or _____>>**.

17. Motor Cover: **<< Not required; or Required>>**.
18. Steel Finish: **<< PowderGuard Premium powder coat; PowderGuard Zinc base coat with PowderGuard Premium top coat; PowderGuard Anti-microbial powder coat; or _____>>**.
19. Obstruction Safety Detection:
    a. Dual infrared sensors mounted in-plane to door curtain at **<< 18 inches (457 mm)>>** and **<< 50 to 54 inches (1270 to 1372 mm)>>** from floor.
    b. Light curtain in-plane to travelling path of door curtain. Size: **<< 3 feet (914 mm); 6 feet (1829 mm); or _____ feet (_____ mm)>>**.
20. Reversing Safety Edge: Door provided with monitored failsafe electric safety edge. Controller indicates inoperable safety edge.
    a. Wireless connections between safety edge and controller required. No coil cords allowed.
    b. Require ground level replacement of bottom bar wireless system battery.
21. Operation: Direct drive motor and gearbox system with field-changeable universal handing and gearbox safety device.
22. Control Panel: Variable frequency drive NEMA 4X cULus listed, onboard self-diagnostic and service reminder, built-in padlockable fused disconnect, and easy-to-read LCD text screen for troubleshooting.
    a. Capable of monitoring and reporting on various operating conditions, including current operating status, current command status, current error status, hoist interlock status, service reminder status, and 24 VDC status.
23. Manual Override: Pull switch and hand chain allowing manual door operation during power outage and installation.
24. Limit System: Magnetic type providing absolute positioning with push to set and remote setting capabilities. Limit system to synchronize with door during manual operation and supply power interruptions.
25. Timer to Close: Each door to have automatic closing controlled by adjustable hold-open time delay.

26. Operation Supply Voltage: **<< 230 VAC three-phase; 460 VAC three-phase; 575 VAC three-phase; or _____>>**.
27. Actuation Device Options: Provide **<< push button; key switch; pull cord; loop detector; motion detector; treadle switch; radio control; wireless connection; and _____>>**.
28. Signaling Device Option: **<< Red and green LED warning lights; Horn and strobe combination; Rotating warning light; or _____>>**.
29. Optional LED Lighting System: Programmable light bar **<< 3 feet (914 mm)>>** tall with red, yellow, green lighting.

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