

The Genuine. The Original.



**SECTION 083326
UPWARD COILING GRILLES
MODEL 670**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Upward coiling metal grilles.

1.02 RELATED REQUIREMENTS

- A. Section << **055000 - Metal Fabrications**>>: << **Support framing; Framed opening; or _____**>>.
- B. Section << **062000 - Finish Carpentry**>>: Wood casings and moldings.
- C. Section << **083323 - Overhead Coiling Doors**>>.
- D. Section << **087100 - Door Hardware**>>: Cylinder cores and keys.
- E. Section << **260533.13 - Conduit for Electrical Systems**>>: Conduit from electric circuit to operator and from operator to control station.
- F. Section << **260583 - Wiring Connections**>>: Power to disconnect.

1.03 REFERENCE STANDARDS

- A. ITS (DIR) - Directory of Listed Products; Current Edition.
- B. UL (DIR) - Online Certifications Directory; Current Edition.
- C. UL 508A - Industrial Control Panels; Current Edition, Including All Revisions.

1.04 SUBMITTALS

- A. Product Data: Provide general construction component connections and details << **and electrical equipment; _____; or None - N/A**>>.
 - 1. Provide documentation showing electrical components are listed and classified for purpose specified by <<ITS (DIR)>>, <<UL (DIR)>>, or testing firm acceptable to authorities having jurisdiction.
- 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. Manufacturer's qualification statement.
- E. Installer's qualification statement.
- F. Operation and Maintenance Data: Indicate modes of operation, lubrication requirements and frequency, and periodic adjustments required.
- G. Specimen warranty.

1.05 QUALITY ASSURANCE

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

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 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 COILING METAL GRILLES

- A. Overhead Door™ Brand; Model 670 Aluminum Security Grille.
 - 1. Grille: Horizontal bar curtain, coiling on overhead counterbalanced shaft.
 - 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 << **6 to 12 inches (152 to 305 mm)**>> per second.
 - 7. Operation Cycles: Capable of operating for 20,000 cycles, minimum. One operation cycle is complete when grille is opened from closed position to fully open position and returned to closed position.
 - 8. Available Warranty:
 - a. Door-Only Warranty: One year.
 - 9. Grille Material: Aluminum.
 - a. Pattern: << **Brick**; **Straight lattice**; **Straight lattice with polycarbonate inserts**; or _____>>.

- b. Finish: << **Black, anodized; Bronze, anodized; Clear, anodized; Mill finish; PowderGuard Premium powder coat to match black anodized; PowderGuard Premium powder coat to match bronze anodized; PowderGuard Premium powder coat to match clear anodized; PowderGuard Premium powder coat; color: _____; or _____>>.**
- c. Vertical Rod Spacing: << **1-1/2 inches (38 mm); 2 inches (51 mm); 3 inches (76 mm); or _____ inches (_____ mm)>> on center.**
- d. Horizontal Link Spacing: << **3 inches (76 mm); 6 inches (152 mm); 9 inches (228 mm); 12 inches (305 mm); or _____ inches (_____ mm)>> on center.**
10. Bottom Bar: << **304 Stainless steel; 6063-T6 aluminum; Galvanized steel; or _____>>.**
- a. Profile: << **Extruded T; Extruded tube; Single angle; Double angle; or _____>>.**
- b. Finish: << **Black, anodized; Bronze, anodized; Clear, anodized; Hot-dip galvanized; Mill finish; No.2B mill; No.4 satin; PowderGuard Premium powder coat to match black anodized; PowderGuard Premium powder coat to match bronze anodized; PowderGuard Premium powder coat to match clear anodized; PowderGuard Premium powder coat; color: _____; PowderGuard Zinc-Enriched powder coat; color: _____; or _____>>.**
11. Locking options to include: << **Best cylinder.; Best cylinder with thumb turn.; Cylinder.; Cylinder with thumb turn.; Slide lock.; _____; or None - N/A>>**

- a. Lock Locations: << **Both jambs**; **Center**; **Left only**; **Right only**; or _____>>.
 - b. Lock Access: << **Both sides**; **Coil side**; **Opposite coil side**; or _____>>.
12. Seals:
- a. Bottom Seal Astragal: << **Not required**; **Required**; or _____>>.
13. Side Guides, Channels: Constructed with members fully bolted together.
- a. Material: << **Aluminum**; **Steel**; **304 Stainless steel**; or _____>>.
 - b. Finish: << **Black, anodized**; **Bronze, anodized**; **Clear, anodized**; **Hot-dip galvanized**; **Mill finish**; **No.2B mill**; **No.4 satin**; **PowderGuard Premium powder coat to match black anodized**; **PowderGuard Premium powder coat to match bronze anodized**; **PowderGuard Premium powder coat to match clear anodized**; **PowderGuard Premium powder coat**; color: _____; **PowderGuard Textured powder coat**; color: _____; **PowderGuard Zinc-Enriched powder coat**; color: _____; or _____>>.
14. Brackets: << **Stainless steel**; **Steel**; or _____>> to support counterbalance and curtain.
- a. Finish: << **Hot-dip galvanized**; **PowderGuard Premium powder coat**; color: **black**; **PowderGuard Premium powder coat to match clear anodized**; **PowderGuard Premium powder coat to match bronze anodized**; **PowderGuard Premium powder coat to match black anodized**; **PowderGuard Premium powder coat**; color: _____; **PowderGuard Textured powder coat**; color: _____; **PowderGuard Zinc-Enriched powder coat**; color: _____; or _____>>.
15. Counterbalance: Helical torsion spring type, housed in steel tube or pipe barrel and supporting curtain with deflection limited to << **0.03 inch per foot (2.5 mm per m)**>> of span. Adjustable spring tension required.
16. Hood: << **Aluminum**; **Not required**; **Steel**; **304 Stainless steel**; or _____>>.

- a. Finish: << **Black, anodized; Bronze, anodized; Clear, anodized; Galvanized, G90 (Z275); Match curtain; Mill finish; No.4 satin; PowderGuard Premium powder coat to match clear anodized; PowderGuard Premium powder coat to match bronze anodized; PowderGuard Premium powder coat to match black anodized; PowderGuard Premium powder coat; color: _____; PowderGuard Textured powder coat; color: _____; or _____>>.**
17. Manual Operation: << **Chain hoist; Crank; Push-up; or _____>>.**
18. Motor Operation: << **Not required; Provide manufacturer's recommended electric operator; or _____>>.**
- a. Operator: << **UL-listed; and _____>>.**
- b. Size: As recommended by manufacturer to move door at opening and closing speeds indicated above.
- c. Manual Override: << **Hoist; Hoist and jackshaft release; Jackshaft release; or _____>>.**
- d. Timer to Close: << **Automatic closing, controlled by adjustable, hold-open time delay; Not required; or _____>>.**
- e. Operation Supply Voltage: << **220V, 1-phase, 50Hz; 220V, 3-phase, 50Hz; 400V, 3-phase, 50Hz; 115/208/230V, 1-phase, 60Hz; 208/230/460V, 3-phase, 60Hz; 575V, 3-phase, 60Hz; or _____>>.**
- f. Signaling Device: << **Horn and strobe combination; Traffic warning light; or _____>>.**
- g. Actuation Device: Provide << **push button; key switch; pull cord; loop detector; motion detector; treadle switch; radio control; and _____>>.**
- h. Motor Mounting: << **Bench mount; Front of hood; Through wall; Top of hood; Wall-mounted; or _____>>, << **right-hand side; left-hand side; or _____>>.****
- i. Obstruction Safety Detection:
- 1) Constant Contact Button: << **No entrapment; Not required; Required; or _____>>.**
 - 2) Photo Eyes: << **NEMA 4X.; Reflective.; Standard.; _____.; or None - N/A>>**
 - 3) Light Curtain: << **3 feet (0.9 m); 6 feet (1.8 m); or _____ feet (_____ m)>>.**
 - 4) Sensing Edge: << **Two-wire reversing; Wireless reversing; or _____>>.**

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify adjacent construction is suitable for grille installation.
- B. Verify electrical services are installed and accessible.
- C. Verify grille opening is plumb, header is level, and dimensions are correct.

- D. Notify <<Architect>> of unacceptable conditions or varying dimensions.
- E. Commencing installation indicates acceptance of substrate and grille opening conditions.

3.02 INSTALLATION

- A. Install grille unit assembly in accordance with manufacturer's instructions.
- B. Securely fasten assembly to wall construction using anchorage devices and building framing 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. See Section << **260583**>> to coordinate installation of electrical service.
- F. Complete wiring from disconnect to unit components.
- G. 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 (1.5 mm);** or ___ inch (___ mm)>>.
- C. Maximum Variation From Level: << **1/16 inch (1.5 mm);** or ___ inch (___ mm)>>.
- D. Longitudinal or Diagonal Warp: Plus or minus << **1/8 inch per 10 feet (3 mm per 3 m);** or _____ inch per 10 feet (___ mm per 3 m)>> straight edge.

3.04 ADJUSTING

- A. Adjust grille, hardware, and operating assemblies for smooth and noiseless operation.

3.05 CLEANING

- A. See Section << **017000 - Execution and Closeout Requirements**>> for additional requirements.
- B. Clean grille and components.
- C. Remove labels and visible markings.

END OF SECTION