

The Genuine. The Original.



**SECTION 083326
UPWARD COILING GRILLES
MODEL 676**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Advanced performance 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 and Operator Warranty: Manufacturer's limited warranty for door and operator system, except counterbalance spring and finish, free from defects in material and workmanship for years and cycles indicated under individual doors.

PART 2 PRODUCTS

2.01 MANUFACTURER

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

2.02 ADVANCED PERFORMANCE UPWARD COILING METAL GRILLES

- A. Overhead Door™ Brand; Model 676.
 - 1. Grille: Horizontal bar curtain, coiling on overhead counterbalanced shaft.

 - 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 of << **24 inches per second (610 mm per second)**>>.
 - 6. Closing Speed: Door to operate at variable speed of << **12 inches per second (305 mm per second)**>>.
 - 7. Operation Cycles: Capable of operating for 300,000 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. Limited Warranty: Two years.
 - 9. Grille Material:
 - a. Grille Rod: << **Stainless steel**; **Steel**; or _____>>.
 - b. Grille Spacer Tubes: << **Aluminum**; **304 Stainless steel**; or _____>>.

- 1) Finish: << **Black anodized; Bronze anodized; Clear anodized; Mill finish; No.2B mill; 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: _____; or _____>>.**
 - c. Grille Links: << **Aluminum; Stainless steel; Steel; or _____>>.**
 - 1) Finish: << **Galvanized; Mill finish; 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: _____; or _____>>.**
 - d. Pattern: << **Brick; Straight lattice; or _____>>.**
 - e. Vertical Rod Spacing: << **2 inches (51 mm)>>.**
 - f. Horizontal Link Spacing: << **9 inches (229 mm)>>.**
10. Bottom Bar: << **6063-T6 aluminum; Galvanized steel; or _____>>.**
- a. Profile: << **Extruded tube; Double angle; or _____>>.**
 - b. Finish: << **Black anodized; Bronze anodized; Clear anodized; Hot-dip galvanized; 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: _____; PowderGuard Zinc-Enriched powder coat; color: _____; or _____>>.**
11. Seals:
- a. Bottom Seal Astragal: << **Required; Not required; or _____>>.**
12. Side Guides, Channels: Constructed of steel with members fully bolted together. Three-angle structural steel high usage guide.
- a. Finish: << **Hot-dip galvanized; PowderGuard Premium powder coat; color: black; 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 _____>>.**
13. Brackets: Galvanized steel 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 _____>>.**
- 14. Door Roll: Directly driven, steel, springless roll with integral shafts, keyed on drive end and supported by self-aligning greaseable sealed bearings. Counterbalance device not required.
- 15. Hood: << **Aluminum; Not required**; **Galvanized steel; Stainless steel; or _____>>.

 - a. Finish: << **Black, primed; Galvanized, G90 (Z275); Match curtain**; **PowderGuard Premium powder coat to match clear anodized; PowderGuard Premium powder coat to match black anodized; PowderGuard Premium powder coat to match bronze anodized; PowderGuard Premium powder coat; color: _____; PowderGuard Textured powder coat; color: _____; or _____>>.****
- 16. Motor Operation: Direct drive, integrated gear motor and brake assembly, sized as recommended by manufacturer to move door in either direction, minimum << **8 inches (203 mm)**>> and maximum << **12 inches (305 mm)**>> per second. Operator and drive assembly is factory pre-assembled and provided with all wiring harnesses needed direct from factory.
 - a. Manual Override: Hoist or crank, determined by motor recommended by manufacturer.
 - b. Timer to Close: Time delay self-close timer and nonresettable cycle counter.
 - c. Operation Supply Voltage: << **208V, 1-phase, 60Hz; 208V, 3-phase, 60Hz; 575V, 3-phase, 60Hz; 220-240V, 1-phase, 50Hz; 220V, 3-phase, 50Hz; 440-480V, 3-phase, 50Hz; or _____>>.**
 - d. Signaling Device: << **Horn and strobe combination**; **Traffic warning light; or _____>>.**
 - e. Actuation Device: Provide << **push button; key switch; pull cord; loop detector; motion detector; treadle switch; radio control; and _____>>.**
 - f. Motor Mounting: << **Front of hood; Wall-mounted**; or _____>>, << **right-hand side; left-hand side; or _____>>.**
 - g. Obstruction Safety Detection:
 - 1) Primary, Monitored: Wireless reversing safety edge.
 - 2) Secondary, Unmonitored: << **Dual photo eyes; Dual thru-beam photo eyes; Reflective photo eyes**; **Thru-beam photo eyes; or _____>>.**
 - h. Control Panel: Variable frequency drive controller with microprocessor self-diagnostics. LCD readout indicates door action, alarm conditions, and fault conditions. Includes timer to close programming options and nonresettable cycle counter. Enclosure is NEMA 4X-rated. Control system in accordance with <<**UL 508A**>>. Junction box is IP67-rated.

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