



**SECTION 083326
UPWARD COILING GRILLES
MODEL 600 HC**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Springless overhead 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 508A - Industrial Control Panels; Current Edition, Including All Revisions.
- C. UL (DIR) - Online Certifications Directory; Current Edition.

1.04 SUBMITTALS

- A. Product Data: Provide details of general construction component connections<< **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 dimensioning, anchorage methods, hardware locations, and installation details.
- C. Manufacturer's Instructions: Indicate installation sequences and procedures, as well as adjustment and alignment procedures.
- D. Manufacturer's qualification statement.
- E. Installer's qualification statement.
- F. Operation and 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 minimum << **3 years; or _____**>> of<< **documented; _____; or None - N/A**>> experience.
- B. Installer Qualifications: Company specializing in performing work of type specified and with minimum << **3 years; or _____**>> of<< **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

- 1. 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. Wayne Dalton; www.wayne-dalton.com; 1 (800) 827-3667.
- B. Substitutions: Not permitted.

2.02 SPRINGLESS OVERHEAD COILING METAL GRILLES

- A. Wayne Dalton, Model 600 HC.
 - 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 << **8 inches (203 mm)**>> per second.
 - 6. Closing Speed: Door to operate at variable speed << **12 inches (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 or 300,000 cycles, whichever comes first.
 - 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; Powder coat to match black anodized; Powder coat to match bronze anodized; Powder coat to match clear anodized; Powder coat; color: _____; or _____**>>.
 - c. Grille Links: << **Aluminum; Stainless steel; Steel; or** >>.

 - 1) Finish: << **Galvanized; Mill finish; No.2B mill; No.4 satin; Powder coat to match black anodized; Powder coat to match bronze anodized; Powder coat to match clear anodized; 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: << **Double angle; Extruded tube; or _____**>>.
 - b. Finish: << **Black anodized; Bronze anodized; Clear anodized; Hot-dip galvanized; Mill finish; Powder coat to match black anodized; Powder coat to match bronze anodized; Powder coat to match clear anodized; Powder coat; color: _____; 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; Powder coat; color: black; Powder coat to match black anodized; Powder coat to match bronze anodized; Powder coat to match clear anodized; Powder coat; color: _____; Textured powder coat; color: _____; Zinc-enriched powder coat; color: _____; or _____**>>.
13. Brackets: Steel to support counterbalance and curtain.
- a. Finish: << **Hot-dip galvanized; Powder coat; color: black; Powder coat to match black anodized; Powder coat to match bronze anodized; Powder coat to match clear anodized; Powder coat; color: _____; Textured powder coat; color: _____; 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 greasable 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; Powder coat to match black anodized; Powder coat to match bronze anodized; Powder coat to match clear anodized; Powder coat; color: _____; 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 preassembled and provided with wiring harnesses needed direct from factory.
- a. Manual Override: << **Hoist; Hoist and jackshaft release; Jackshaft release; or _____**>>.
 - b. Timer to Close: Time delay self-close timer and non-resettable cycle counter.
 - 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; 400V, 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: << **Dual photo eyes; Reflective photo eyes; Thru-beam photo eyes; Two-wire reversing safety edge; or _____**>>.
 - 2) Secondary, Unmonitored: << **Dual photo eyes; Reflective photo eyes; Thru-beam photo eyes; Two-wire reversing safety edge; or _____**>>.
 - h. Control Panel: Electronic controller with microprocessor self-diagnostics. Digital readout indicates door action, alarm conditions, and fault conditions. Includes time-delay self-close timer and non-resettable cycle counter. Enclosure is IP54-rated, NEMA 3 equivalent.

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