



SECTION 08 33 26 – OVERHEAD COILING GRILLES – High Performance

PART 1 GENERAL

1.1 ADMINISTRATIVE REQUIREMENTS

- A. Pre-Installation Conference:
 - 1. Attendance: [Architect,] [Owner,] [Contractor,] [Construction Manager,] [Design/Builder] installer, and related trades.
 - 2. Review: Project conditions, manufacturer requirements, delivery and storage, staging and sequencing, and protection of completed work.

1.2 SUBMITTALS

- A. Action Submittals:
 - 1. Shop Drawings: Illustrate products, installation, and relationship to adjacent construction.
 - 2. Product Data: Manufacturer's descriptive data and product attributes.
 - 3. Samples: [Selection samples.] [Verification samples.]
- B. Closeout Submittals:
 - 1. Operation and Maintenance Data.

1.3 QUALITY ASSURANCE

- A. Installer Qualifications:
 - 1. Minimum [2] [] years' experience in work of this Section.
 - 2. Approved by grille manufacturer.

1.4 SYSTEM DESCRIPTION

- A. Operation: Direct drive motor with chain hoist override.
- B. Design Cycle Life: [400,000] [600,000] cycles.
- C. Operating Speed: Up to 24 inches per second opening, up to 12 inches per second closing.

1.5 WARRANTY

- A. Manufacturer's warranty against defects in materials and workmanship for 2 years or 400,000 cycles.

**** OR ****

- B. Manufacturer's warranty against defects in materials and workmanship for 3 years or 600,000 cycles.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Contract Documents are based on Series 800HP by ASTA America, www.astaamerica.com.
- B. Substitutions: [Refer to Division 01.] [Not permitted.]

2.2 MATERIALS

- A. Aluminum: Extrusions: ASTM B221.

2.3 COMPONENTS

- A. Grille:
 - 1. Type: [Straight grille pattern.] [Brick pattern.]
 - 2. Construction:
 - a. 5/16 inch diameter aluminum rods spaced 1-3/4 inches on center vertically.
 - b. 1/8 inch x 5/8 inch x 4-1/4 inch aluminum horizontal links spaced 9 inches on center, covered by 1/2 inch aluminum spacer tubes on every other rod.
 - c. End links: Aluminum.
 - 3. Bottom bar: Tubular aluminum, with PVC bulb weatherseal.
 - 4. Locking: [Slide bolts, with padlock provisions.] [Keyed cylinder locks. Key locks [alike.] [differently.] [as directed by Owner.] Furnish [2] [] keys per lock.] [Chain lock.]
- B. Hood:
 - 1. 24 gage aluminum, with closed ends.
 - 2. Reinforcing: 1/4 inch thick steel brackets for grilles over 13'-4" wide.
- C. Guides:
 - 1. Wall angles: Steel angles, 3/16 inch minimum thickness.
 - 2. Guides: Extruded aluminum, 3 inches x 1-1/2 inches, with shoulders for curtain retention, fitted with vinyl stripping both sides of curtain, with removable headstops.
- D. Barrel Assembly:
 - 1. Steel pipe, size and wall thickness to limit deflection to 0.03 inch per foot of width,
 - 2. System designed to operate without spring counterbalance assembly.
- E. Support Brackets: Steel plate, 1/4 inch minimum thickness, with self-aligning sealed ball bearings and welded steel provisions for hood mount.
- F. Operator:
 - 1. SecureDrive+ direct drive motor operator and controls designed for continuous duty cycle. Voltage and phase: [115/230 VAC single phase,] [208/230 VAC single phase,] [230/460 VAC three phase,] 50/60 Hz.
 - 2. Motor brake standard; dynamic braking optional by means of timed energized solenoid actuation.
 - 3. Emergency chain hoist operation with integrated electronic interlock.
 - 4. Inherent overload protection.
- G. Controller:
 - 1. Variable Frequency Drive (VFD) with optimal inverter.
 - 2. NEMA 4X wall mounted interface control panel. Plug in play programmable logic board connections for:
 - a. Operator assembly.
 - b. Encoder and brake assembly.
 - c. Entrapment protection.
 - d. Ancillary connections.
 - 3. LED display standard readout:
 - a. Start up menu.
 - b. Electronic limit quick set up.
 - c. Diagnostics.

- d. Door positioning.
- e. Error codes.
- f. Non-resettable cycle counter continuous display.
- 4. Normally closed/normally open programmable dry contact inputs and outputs.
- 5. Overload and current protection protected by Class II control circuits.
- 6. Compatible with normally closed and normally open dry contacts from:
 - a. [Loop detectors.]
 - b. [RFID readers.]
 - c. [Motion sensors.]
 - d. [Sensing devices.]
 - e. [Annunciators.]
 - f. [Interlocking systems.]
 - g. [Traffic light kit.]
- H. Entrapment Protection: [Photo eye sensors, UL 325 R5 compliant, NEMA rated.] [Light curtain, UL 325 R5 compliant, [3] [6] foot high, NEMA rated.]

2.4 FINISHES

- A. Aluminum: [Clear] [Black] anodized.

PART 3 EXECUTION

3.1 INSTALLATION

- A. Install in accordance with manufacturer's instructions and approved Shop Drawings.

END OF SECTION