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SECTION 08 33 26 – OVERHEAD COILING GRILLES – High Performance

GENERAL

ADMINISTRATIVE REQUIREMENTS

Pre-Installation Conference:

Attendance: [Architect,] [Owner,] [Contractor,] [Construction Manager,] [Design/Builder] installer, and related trades.

Review: Project conditions, manufacturer requirements, delivery and storage, staging and sequencing, and protection of completed work.

SUBMITTALS

Action Submittals:

Shop Drawings: Illustrate products, installation, and relationship to adjacent construction.

Product Data: Manufacturer’s descriptive data and product attributes.

Samples: [Selection samples.] [Verification samples.]

Closeout Submittals:

Operation and Maintenance Data.

QUALITY ASSURANCE

Installer Qualifications:

Minimum [2] [\_\_] years’ experience in work of this Section.

Approved by grille manufacturer.

SYSTEM DESCRIPTION

Operation: Direct drive motor with chain hoist override.

Design Cycle Life: [400,000] [600,000] cycles.

Operating Speed: Up to 24 inches per second opening, up to 12 inches per second closing.

WARRANTY

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

\*\*\*\* OR \*\*\*\*

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

PRODUCTS

MANUFACTURERS

Contract Documents are based on Series 800HP by ASTA America, [www.astaamerica.com](http://www.astaamerica.com).

Substitutions: [Refer to Division 01.] [Not permitted.]

MATERIALS

Aluminum: Extrusions: ASTM B221.

COMPONENTS

Grille:

Type: [Straight grille pattern.] [Brick pattern.]

Construction:

* + - * 1. 5/16 inch diameter aluminum rods spaced 1-3/4 inches on center vertically.
        2. 1/8 inch x 5/8 inch x 4-1/4 inch aluminum horizontal links spaced 9 inches on center, covered by ½ inch aluminum spacer tubes on every other rod.
        3. End links: Aluminum.

Bottom bar: Tubular aluminum, with PVC bulb weatherseal.

Locking: [Slide bolts, with padlock provisions.] [Keyed cylinder locks. Key locks [alike.] [differently.] [as directed by Owner.] Furnish [2] [\_\_] keys per lock.] [Chain lock.]

Hood:

24 gage aluminum, with closed ends.

Reinforcing: ¼ inch thick steel brackets for grilles over 13'-4" wide.

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.

Barrel Assembly:

Steel pipe, size and wall thickness to limit deflection to 0.03 inch per foot of width,

System designed to operate without spring counterbalance assembly.

Support Brackets: Steel plate, ¼ inch minimum thickness, with self-aligning sealed ball bearings and welded steel provisions for hood mount.

Operator:

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.

Motor brake standard; dynamic braking optional by means of timed energized solenoid actuation.

Emergency chain hoist operation with integrated electronic interlock.

Inherent overload protection.

Controller:

Variable Frequency Drive (VFD) with optimal inverter.

NEMA 4X wall mounted interface control panel. Plug in play programmable logic board connections for:

* + - * 1. Operator assembly.
        2. Encoder and brake assembly.
        3. Entrapment protection.
        4. Ancillary connections.

LED display standard readout:

* + - * 1. Start up menu.
        2. Electronic limit quick set up.
        3. Diagnostics.
        4. Door positioning.
        5. Error codes.
        6. Non-resettable cycle counter continuous display.

Normally closed/normally open programmable dry contact inputs and outputs.

Overload and current protection protected by Class II control circuits.

Compatible with normally closed and normally open dry contacts from:

* + - * 1. [Loop detectors.]
        2. [RFID readers.]
        3. [Motion sensors.]
        4. [Sensing devices.]
        5. [Annunciators.]
        6. [Interlocking systems.]
        7. [Traffic light kit.]

Entrapment Protection: [Photo eye sensors, UL 325 R5 compliant, NEMA rated.] [Light curtain, UL 325 R5 compliant, [3] [6] foot high, NEMA rated.

FINISHES

Aluminum: [Clear] [Black] anodized.

EXECUTION

INSTALLATION

Install in accordance with manufacturer’s instructions and approved Shop Drawings.

END OF SECTION