

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