

SECTION 08 33 23.04 – OVERHEAD COILING DOORS

 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 door manufacturer.

 SYSTEM DESCRIPTION

 Design Requirements: Positive and negative design wind loads in accordance with [ASCE 7.] [Building Code.] [\_\_\_\_.]

 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.

 Manufacturer’s 40 year warranty for coating film integrity and 35 year warranty against chalking and fading of coating.

 PRODUCTS

 MANUFACTURERS

 Contract Documents are based on Series 400HP by ASTA America, [www.astaamerica.com](http://www.astaamerica.com).

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

 MATERIALS

 Galvanized Steel: ASTM A653/A653M, Structural Quality, G40 coating class.

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

 Stainless Steel: ASTM A666, Type 304.

 COMPONENTS

 Curtain:

 Material: [Galvanized steel.] [Stainless steel.]

 Slats: 22 gage, flat profile, 2-5/8 inches wide x 5/8 inch deep.

 Endlocks: Ends of alternate slats fitted with nylon endlocks.

 Bottom bar: Steel double angle, with PVC bulb weatherseal.

 Vision panels: 5 x ¾ inch cut outs spaced approximately 3 inches apart, covered with clear Lexan.

 Hood:

 24 gage [galvanized] [stainless] steel, with closed ends.

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

 Guides:

 [Steel] [Stainless steel] angles, 3/16 inch minimum thickness, with removable headstops and self-lubricating UHMW anti-wear strips.

 Weather seal: Brush seal with retainer.

 Barrel Assembly:

 Barrel: 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

 Guides, Bottom Bar, and Headplates: Powder coated, black.

 Galvanized Steel: [Unpainted.] [Manufacturer’s standard [white] [gray] [tan] topcoat.] [Powder coated, [\_\_\_\_] color [to be selected from manufacturer’s full color range].

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

 Stainless Steel: No. 4 satin.

 EXECUTION

 INSTALLATION

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

END OF SECTION