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SECTION 08 33 13.01 – COILING COUNTER SHUTTERS

 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.

 SYSTEM DESCRIPTION

 Operation: [Manual, push up.] [Reduced drive crank.]

 WARRANTY

 Manufacturer’s 2 year warranty against defects in materials and workmanship.

 Manufacturer’s 40 year warranty for coating film integrity and 30 year warranty against chalking and fading of coating.

 PRODUCTS

 MANUFACTURERS

 Contract Documents are based on Series 700 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, G30 coating class.

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

 Aluminum:

 Extrusions: ASTM B221.

 Sheet: ASTM B209.

 COMPONENTS

 Curtain:

 Material: [24GA galvanized steel][22GA galvanized steel.] [22GA 304 stainless steel][ .060” extruded aluminum.]

 Slat profile: Flat.

 Slat size: 1-1/2 inch face width x ½ inch depth.

 Endlocks: Ends of alternate slats fitted with endlocks.

 Bottom bar: Extruded aluminum, [single angle, with dual slide bolt locks and bottom astragal][cylinder lock bottom bar and bottom astragal.]

 Locks: Keyed cylinder type; key locks [alike.] [differently.] [as directed by Owner.] Furnish [2] [\_\_] keys per lock.

 Hood: [24 gage galvanized steel sheet] [0.040-inch-thick aluminum sheet], with closed ends.

 Guides: Box shaped, extruded aluminum, two-piece configurations with soft brush guide runners, bell mouths, and head stop.

 Barrel Assembly:

 Barrel: Minimum 4-1/2 inch O.D. pipe; maximum 0.03 inch deflection per foot under full load.

 Spring: Spring tension assembly supported within barrel by precision ball bearings.

 Counterbalance: Curtain weight counterbalanced by oil-tempered, helically wound torsion springs, grease packed and mounted to steel torsion shaft.

 Spring assembly life cycle: [20,000] [\_\_] cycles.

 Head Plates: Steel plate.

 FINISHES

 Aluminum: [Clear anodized.] [Powder coated, [\_\_\_\_] color [to be selected from manufacturer’s full color range].

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

 Galvanized Steel: [Prime painted.] [Powder coated, [\_\_\_\_] color [to be selected from manufacturer’s full color range].

* + 1. Stainless Steel: ASTM 666, Type 304.

 EXECUTION

 INSTALLATION

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

END OF SECTION