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SECTION 08 33 13.02 – 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.

 Fire Shutter Assembly: UL labeled, [45 minute rated.] [90 minute rated.] [rating as scheduled.]

 SYSTEM DESCRIPTION

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

 Operation:

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

 Emergency: Automatically closing, released by [165 degree F fusible link.] [smoke detector.] [central alarm system.]

 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 550 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 \*\*\*\*

 Stainless Steel: ASTM A666, Type 304.

 COMPONENTS

 Curtain:

 Material: 22 gage [galvanized steel] [stainless steel] sheet.

 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: [Galvanized steel] [Stainless steel], double angle, with dual slide bolts and bottom astragal.

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

 Guides: Box shaped, [galvanized steel] [stainless steel], two-piece configurations with UL rated jamb brush seal and flame baffle.

 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

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

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

 Stainless Steel: No. 4 brushed.

 EXECUTION

 INSTALLATION

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

END OF SECTION