



SECTION 08 33 13.01 – COILING COUNTER SHUTTERS

PART 1 GENERAL

1.1 ADMINISTRATIVE REQUIREMENTS

- A. Pre-Installation Conference:
 - 1. Attendance: [Architect,] [Owner,] [Contractor,] [Construction Manager,] [Design/Builder] installer, and related trades.
 - 2. Review: Project conditions, manufacturer requirements, delivery and storage, staging and sequencing, and protection of completed work.

1.2 SUBMITTALS

- A. Action Submittals:
 - 1. Shop Drawings: Illustrate products, installation, and relationship to adjacent construction.
 - 2. Product Data: Manufacturer's descriptive data and product attributes.
 - 3. Samples: [Selection samples.] [Verification samples.]
- B. Closeout Submittals:
 - 1. Operation and Maintenance Data.

1.3 QUALITY ASSURANCE

- A. Installer Qualifications: Minimum [2] [] years' experience in work of this Section.

1.4 SYSTEM DESCRIPTION

- A. Design Requirements: Positive and negative design wind loads in accordance with [ASCE 7.] [Building Code.] [____.]
- B. Operation: [Manual, push up.] [Reduced drive crank.]

1.5 WARRANTY

- A. Manufacturer's 2 year warranty against defects in materials and workmanship.
- B. Manufacturer's 40 year warranty for coating film integrity and 35 year warranty against chalking and fading of coating.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Contract Documents are based on Series 700 by ASTA America, www.astaamerica.com.
- B. Substitutions: [Refer to Division 01.] [Not permitted.]

2.2 MATERIALS

- A. Galvanized Steel: ASTM A653/A653M, Structural Quality, G90 coating class.

**** OR ****

- B. Aluminum:
1. Extrusions: ASTM B221.
 2. Sheet: ASTM B209.

2.3 COMPONENTS

- A. Curtain:
1. Material: 22 gage [galvanized steel.] [aluminum.]
 2. Slat profile: Flat.
 3. Slat size: 1-1/2 inch face width x 1/2 inch depth.
 4. Endlocks: Ends of alternate slats fitted with endlocks.
 5. Bottom bar: Extruded aluminum, single angle, with dual slide bolts and bottom astragal.
 6. Locks: Keyed cylinder type; key locks [alike.] [differently.] [as directed by Owner.] Furnish [2] [] keys per lock.
- B. Hood: [24 gage galvanized steel sheet] [0.0201 inch thick aluminum sheet], with closed ends.
- C. Guides: Box shaped, extruded aluminum, two-piece configurations with soft brush guide runners, bell mouths, and head stop.
- D. Barrel Assembly:
1. Barrel: Minimum 4-1/2 inch O.D. pipe; maximum 0.03 inch deflection per foot under full load.
 2. Spring: Spring tension assembly supported within barrel by precision ball bearings.
 3. Counterbalance: Curtain weight counterbalanced by oil-tempered, helically wound torsion springs, grease packed and mounted to steel torsion shaft.
 4. Spring assembly life cycle: [20,000] [] cycles.
- E. Head Plates: Steel plate.

2.4 FINISHES

- A. Aluminum: [Clear anodized.] [Powder coated, [] color [to be selected from manufacturer's full color range].

**** OR ****

- B. Galvanized Steel: [Prime painted.] [Powder coated, [] color [to be selected from manufacturer's full color range].

PART 3 EXECUTION

3.1 INSTALLATION

- A. Install in accordance with manufacturer's instructions and approved Shop Drawings.

END OF SECTION