

**SECTION 08 33 13**  
**COILING COUNTER DOORS**

**PART 1 -GENERAL**

**1.1 DESCRIPTION**

- A. Section specifies overhead roll up coiling shutters over counter in walls, including frame and counter.
- B. Manual push up operation.

**1.2 RELATED WORK**

- A. Lock cylinder and keying: Section 08 71 00, DOOR HARDWARE.
- B. Color of shutter; Section 09 06 00, SCHEDULE FOR FINISHES.
- C. Field Painting: Section 09 91 00, PAINTING.

**1.3 SUBMITTALS**

- A. Submit in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.
- B. Manufacturer's Literature and Data:
  - Shutter, each type.
  - Installation procedures and instructions.
- C. Shop Drawings:
  - Shutter, each type, showing details of construction and installation.

**1.4 APPLICABLE PUBLICATIONS**

- A. Publications listed below form a part of this specification to extent referenced. Publications are referenced in text by basic designation only.
- B. American Society for Testing and Materials (ASTM):
  - A47-99(R2004).....Malleable Iron Castings
  - A48-03.....Gray Iron Castings
  - A53-06.....Pipe, Steel, Black and Hot-Dipped, Zinc-Coated Welded and Seamless
  - A167-99(R2004).....Stainless and Heat-Resisting Chromium-Nickel Steel Plate, Sheet and Strip
  - A653-07.....Steel Sheet Zinc-Coated (Galvanized) or Zinc-Iron Alloy Coated (Galvannealed) by the Hot Dip Process
  - B209-06.....Aluminum and Aluminum-Alloy Sheet and Plate
  - B221-06.....Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Shapes, and Tubes
  - F468-06.....Nonferrous Bolts, Hex Cap Screws, and Studs for General Use
  - F593-02.....Stainless Steel Bolts, Hex Cap Screws, and Studs

C. American Welding Society (AWS):

- D1.1-04.....Structural Welding Code Steel
- D1.2-03.....Structural Welding Code Aluminum
- D1.3-98.....Structural Welding Code Sheet Steel

D. National Association of Architectural Metal Manufacturers (NAAMM)

- AMP 500 Series-1988.....Metal Finishes Manual

E. American Architectural Manufacturers Association (AAMA):

- 2605-05.....Voluntary Specification for High Performance  
Organic Coatings on Architectural Extrusions  
and Panels

F. Federal Specifications (Fed. Spec):

- TT-P-645B.....Primer, Paint, Zinc-Molybdates, Alkyd Type

G. National Fire Protection Association (NFPA):

- 80-06.....Fire Doors and Fire Windows

**PART 2 - PRODUCTS**

**2.1 MATERIALS**

- A. Stainless Steel: ASTM A167, Type 302 or 304.
- B. Galvanized Repair Compound: Mil. Spec MIL-P-21035.
- C. Primer: Fed. Spec. TT-P-645.
- D. Galvanized Steel: ASTM A653.
- E. Steel Pipe: ASTM A53.
- F. Casting: ASTM A47 or A48.

**2.2 FABRICATION**

- A. Weld in accordance with AWS applicable code.
- B. Fire Rated Shutter:
  - 1. Integral counter, shutter, and frame type unit for installation with hood and fascia, sloping top, related accessories and components, and automation closing by fusible link.
  - 2. Comply with NFPA 80. The counter shall have Underwriters Laboratories Inc., or other nationally recognized laboratory label for Class B opening as shown.
  - 3. Construct for surface mounted installation.
  - 4. Construct of galvanized steel and stainless steel on exposed to view components except counter.
  - 5. Counter: Minimum 2 mm (0.0747-inch) thick stainless steel with flush closed soffits and ends.
  - 6. Curtain:
    - a. Flat type slats, approximately 32 mm (1 1/4-inches) wide.

- b. Bottom bar equipped with recessed flush handles, recessed slide bolt on one end, key operated cylinder lock on other end and a continuous flexible seal to make contact with counter. Lock cylinder specified in Section 08 71 00, DOOR HARDWARE.
- 7. Hood and Fascia: Steel Sheet, formed with beads or flanges to prevent deflection. Sloping top exposed ends, hood, and flush closures fastened as recommended by manufacturer.
- 8. Frame: Frame jamb sections to include guide slots for curtain with receiver for bolts and locks and continuous closure angles.
- 9. Counterbalance Assembly:
  - a. Spring barrel or shaft of steel pipe of sufficient strength to ensure deflection not exceeding 1 mm (0.03-inch) per 300 mm (1 foot) of span.
  - b. Barrel or shaft house oil-tempered, helically wound steel spring, and rotate on grease-sealed ball or roller-bearing units.
  - c. Spring adjustable from outside.
  - d. Brackets not less than 3 mm (0.125-inch) thick steel designed to form end closure support for head.
- 10. Operation:
  - a. Manual Push-up type for curtains less than 2130 mm (7-feet) wide.
  - b. Equip shutter with an automatic closing device actuated by fusible link to release at 130 degrees F. located exposed below the ceiling on both sides of opening in accordance with NFPA No. 80.

## **2.3 FINISH**

### **A. Galvanized Steel:**

- 1. Shop prime painted per NAAMM AMP 501 and 504.
- 2. Finish painted under Section 09 91 00, PAINTING.

### **B. Stainless Steel: Mechanical finish No. 4 in accordance with NAAMM AMP 500 and AMP 503.**

## **PART 3 - EXECUTION**

### **3.1 INSTALLATION**

- A. Install in accordance with approved shop drawings and manufacturer's instructions.
- B. Locate anchors and inserts for guides, brackets, supports, hardware, and other accessories and components accurately.

C. Securely attach guides to adjoining construction with not less than 10 mm (3/8-inch) diameter bolts, spaced near each end and not over 600 mm (24 inches) apart.

1. Use fasteners conforming to ASTM F468 and F593.
2. Use stainless steel bolts with aluminum or stainless steel.
3. Use toggle bolts to frame walls or hollow masonry.
4. Use expansion bolts in solid masonry or concrete.

### **3.2 REPAIR**

Repair damaged zinc-coated surfaces by applying galvanized repair compound in accordance with the manufacturer's directions.

### **3.3 PROTECTION**

- A. Isolate aluminum in contact with or fastened to dissimilar metal other than stainless steel, white bronze or other metals compatible with aluminum by painting the dissimilar or aluminum with a coat of TT-P-645 primer, or by placing an approved caulking compound, or a non-absorptive tape, or gasket between the aluminum and dissimilar metal.
- B. Paint aluminum in contact with masonry or concrete with a coat of TT-P-645.

### **3.4 ADJUSTING AND CLEANING**

- A. Lubricate properly, adjust and demonstrate, to operate freely and as specified.
- B. Clean upon completion.

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