

**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.

**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(R2009).....Malleable Iron Castings

A48-03(R2008).....Gray Iron Castings

A53-10.....Pipe, Steel, Black and Hot-Dipped, Zinc-Coated  
Welded and Seamless

A167-99(R2009).....Stainless and Heat-Resisting Chromium-Nickel  
Steel Plate, Sheet and Strip

A653-10.....Steel Sheet Zinc-Coated (Galvanized) or Zinc-  
Iron Alloy Coated (Galvannealed) by the Hot Dip  
Process

B209-07.....Aluminum and Aluminum-Alloy Sheet and Plate

B221-08.....Aluminum and Aluminum-Alloy Extruded Bars,  
Rods, Wire, Shapes, and Tubes

F468-10.....Nonferrous Bolts, Hex Cap Screws, and Studs for  
General Use

F593-02(R2008).....Stainless Steel Bolts, Hex Cap Screws, and  
Studs

C. American Welding Society (AWS):

D1.1-10.....Structural Welding Code Steel

D1.2-08.....Structural Welding Code Aluminum

D1.3-08.....Structural Welding Code Sheet Steel

D. National Association of Architectural Metal Manufacturers (NAAMM)

AMP 500 Series-2006.....Metal Finishes Manual

E. American Architectural Manufacturers Association (AAMA):

2605-11.....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):

80-10.....Fire Doors and Fire Windows

**PART 2 - PRODUCTS`**

**2.1 MATERIALS**

A. Aluminum:

1. Extruded: ASTM B221, alloy 6063-T5.

2. Sheet: ASTM B209.

B. Stainless Steel: ASTM A167, Type 302 or 304.

C. Galvanized Repair Compound: Mil. Spec MIL-P-21035.

D. Primer: Fed. Spec. TT-P-645.

E. Galvanized Steel: ASTM A653.

F. Steel Pipe: ASTM A53.

G. Casting: ASTM A47 or A48.

**2.2 FABRICATION**

A. Weld in accordance with AWS applicable code.

B. Non-Fire Rated Shutter:

1. Shutter, and frame type unit for installation with hood and fascia,  
sloping top, and related accessories and components required for a  
complete working installation.

2. Construct for surface mounted installation.

3. Exposed to view components of same metal except as specified.

4. Counter: 2 mm (0.0747-inch) thick stainless steel with flush closed  
soffits and ends.

5. Frame: Minimum 1.5 mm (0.0598-inch) thick steel jamb sections formed to include guide slots for curtain with receiver for bolts and locks and continuous closure angles.
6. 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 bearings.
  - c. Springs adjustable from outside.
7. Brackets: 3 mm (1/8-inch) thick steel plate designed to form end closure support for hood.
8. Operation: Manual Push-up type for curtains less than 2130 mm (7-feet) wide.
9. Curtain:
  - a. Flat type slats approximately 32 mm (1-1/4-inches) wide.
  - b. Bottom bar, equipped with recessed flush handles, recessed slide bolts for locking on one end, key operated cylinder lock on other end, and a continuous flexible seal to make tight contact with counter. Lock cylinder specified in Section 08 71 00, DOOR HARDWARE.
10. Hoods: Formed with beads or flanges to prevent deflection. Sloping tops exposed ends and flush closures. Fastened to hood with sheet metal screws as recommended by manufacturer.
11. Stainless Steel Shutter:
  - a. Curtain: 0.8 mm (0.0299-inch) thick stainless steel, with stainless steel bottom angles or bar.
  - b. Sloping top, Hood and Fascia: Stainless steel.
  - c. Frames: Stainless steel.
  - d. Counter: Stainless steel.

### **2.3 FINISH**

- A. 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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