

**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.

B. Manual push up operation.

**1.2 RELATED WORK**

A. Lock cylinder and keying: Section 08 71 00, DOOR HARDWARE.

B. Door opening jamb and head members: Section 06 10 00, Rough Carpentry

**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 WARRANTY**

A. Standard Warranty: Two years from date of shipment against defects in material and workmanship.

B. Maintenance: Submit for owner's consideration and acceptance of a maintenance service agreement for installed products.

**1.5 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 recessed installation, and related accessories and components required for a complete working installation.
2. Construct for recessed installation.
3. Exposed to view components of same metal except as specified.
4. Frame: Minimum 12 ga. (0.1046-inch) thick stainless steel jamb sections formed to include guide slots for curtain with receiver for bolts and locks and continuous closure angles.
5. 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.
6. Brackets: 3 mm (1/8-inch) thick steel plate designed to form end closure support for hood.
7. Operation: Manual Push-up type for curtains less than 2130 mm (7-feet) wide.
8. Curtain:
  - a. Flat type slats approximately 38 mm (1-1/2-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.
9. Hoods: Formed with beads or flanges to prevent deflection.
10. Stainless Steel Shutter:
  - a. Curtain: 0.8 mm (0.0299-inch) thick stainless steel, with stainless steel bottom angles or bar.
  - b. Hood and Fascia: Aluminum (with clear anodic coating, AA-C-22A41; Class II Architectural).
  - c. Frames: 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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