

**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(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. Integral counter, 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 recessed.

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

4. 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.

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 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.

9. Hoods: Formed with beads or flanges to prevent deflection.

2.3 FINISH

A. Aluminum:

- 1. Chemically etched medium matte with colored anode coating, AA-C22A42 or AA-C22A44 electrolytically deposited metallic compound) integrally colored coating, Class II, Architectural, 0.4 mils thick. (AMP 501)

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.

3.2 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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