

**SECTION 08 90 00  
LOUVERS AND VENTS**

**PART 1 - GENERAL**

**1.1 DESCRIPTION**

This section specifies fixed and operable wall louvers, door louvers and wall vents.

**1.2 RELATED WORK**

- A. Louvers in steel doors: Section 08 11 13, HOLLOW METAL DOORS AND FRAMES.
- B. Color of finish: 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. Shop Drawings:  
Each type, showing material, finish, size of members, method of assembly, and installation and anchorage details.
- C. Manufacturer's Literature and Data:  
Each type of louver and vent.

**1.4 APPLICABLE PUBLICATIONS**

- A. The publications listed below form a part of this specification to the extent referenced. The publications are referenced in the text by the basic designation only.
- B. The Master Painters Institute (MPI):  
Approved Product List - November 2007
- C. American Society for Testing and Materials (ASTM):  
A167-99(R2004).....Stainless and Heat-Resisting Chromium - Nickel  
Steel Plate, Sheet, and Strip  
A1008/A1008M REV A-07...Steel, Sheet, Carbon, Cold Rolled, Structural,  
and High Strength Low-Alloy with Improved  
Formability  
B209/B209M-07.....Aluminum and Aluminum Alloy, Sheet and Plate  
B221-06.....Aluminum and Aluminum Alloy Extruded Bars, Rods,  
Wire, Shapes, and Tubes  
B221M-07.....Aluminum and Aluminum Alloy Extruded Bars, Rods,  
Wire Shapes, and Tubes
- D. National Association of Architectural Metal Manufacturers (NAAMM):  
AMP 500-505 (1988).....Metal Finishes Manual
- E. National Fire Protection Association (NFPA):  
90A-02.....Installation of Air Conditioning and Ventilating  
Systems
- G. American Architectural Manufacturers Association (AAMA):

605-98.....High Performance Organic Coatings on  
Architectural Extrusions and Panels

H. Air Movement and Control Association, Inc. (AMCA):

500-L-99.....Testing Louvers

## **PART 2 - PRODUCTS**

### **2.1 MATERIALS**

- A. Aluminum, Extruded: ASTM B221/B221M.
- B. Fasteners: Fasteners for securing louvers and wall vents to adjoining construction, except as otherwise specified or shown, shall be toggle or expansion bolts, of size and type as required for each specific type of installation and service condition.
  - 1. Where type, size, or spacing of fasteners is not shown or specified, submit shop drawings showing proposed fasteners, and method of installation.
  - 2. Fasteners for louvers, louver frames, and wire guards shall be of stainless steel or aluminum.

### **2.2 INTERIOR DOOR LOUVERS**

- A. Fabricate louvers for interior doors 1.6 mm (0.063-inch) thick extruded aluminum//.
- B. Make louvers sight-proof type with stationary blades.
- C. Lightproof louvers shall have stationary blades and be designed to exclude passage of light but permit free ventilation.

SPEC WRITE NOTE: On most projects, specify finish of aluminum by using description, do not use Aluminum Association's designation. If more than one finish is used on project, precede finish spec with "Finish for (list items):"

### **2.3 FINISH**

- A. In accordance with NAAMM Metal Finishes Manual: AMP 500-505
- B. Aluminum Louvers:
  - 1. Anodized finish
    - a. Mill finish, as fabricated.

### **2.4 PROTECTION**

- A. Provide protection for aluminum against galvanic action wherever dissimilar materials are in contact, by painting the contact surfaces of the dissimilar material with a heavy coat of bituminous paint (complete coverage), or by separating the contact surfaces with a performed synthetic rubber tape having pressure sensitive adhesive coating on one side.
- B. Isolate the aluminum from plaster, concrete and masonry by coating aluminum with zinc-chromate primer.

- C. Protect finished surfaces from damage during fabrication, erection, and after completion of the work.

### **PART 3 - EXECUTION**

#### **3.1 INSTALLATION**

- A. Set work accurately, in alignment and where shown. Items shall be plumb, level, free of rack and twist, and set parallel or perpendicular as required to line and plane of surface.
- B. Provide anchoring devices and fasteners as shown and as necessary for securing louvers.

#### **3.2 CLEANING AND ADJUSTING**

- A. After installation, all exposed prefinished and plated items and all items fabricated from stainless steel and aluminum shall be cleaned as recommended by the manufacturer and protected from damage until completion of the project.
- B. All movable parts, including hardware, shall be cleaned and adjusted to operate as designed without binding or deformation of the members, so as to be centered in the opening of frame, and where applicable, to have all contact surfaces fit tight and even without forcing or warping the components

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