

SECTION 08 91 00

METAL WALL LOUVERS

04/06

PART 1 GENERAL

1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

AIR MOVEMENT AND CONTROL ASSOCIATION INTERNATIONAL (AMCA)

AMCA 500-D (1998) Laboratory Methods of Testing
Dampers for Rating

AMCA 511 (1999; R 2004) Certified Ratings Program
for Air Control Devices

ALUMINUM ASSOCIATION (AA)

AA DAF-45 (2003) Designation System for Aluminum
Finishes

ASTM INTERNATIONAL (ASTM)

ASTM B 209 (2007) Standard Specification for Aluminum
and Aluminum-Alloy Sheet and Plate

ASTM B 221 (2008) Standard Specification for Aluminum
and Aluminum-Alloy Extruded Bars, Rods,
Wire, Profiles, and Tubes

1.2 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for information only. When used, a designation following the "G" designation identifies the office that will review the submittal for the Government. The following shall be submitted in accordance with Section 01 33 00 SUBMITTAL PROCEDURES:

SD-02 Shop Drawings

Wall louvers; G, AE

SD-03 Product Data

Metal Wall Louvers; G, AE

SD-04 Samples

Wall louvers; G, AE

1.3 DELIVERY, STORAGE, AND PROTECTION

Deliver materials to the site in an undamaged condition. Carefully store

materials off the ground to provide proper ventilation, drainage, and protection against dampness. Louvers shall be free from nicks, scratches, and blemishes. Replace defective or damaged materials with new.

1.4 DETAIL DRAWINGS

Show all information necessary for fabrication and installation of [wall louvers](#). Indicate materials, sizes, thicknesses, fastenings, and profiles.

1.5 COLOR SAMPLES

Colors of finishes for [wall louvers](#) shall closely approximate colors indicated. Where color is not indicated, submit the manufacturer's standard colors to the Contracting Officer for selection.

PART 2 PRODUCTS

2.1 MATERIALS

2.1.1 Aluminum Sheet

[ASTM B 209](#), alloy 3003 or 5005 with temper as required for forming.

2.1.2 Extruded Aluminum

[ASTM B 221](#), alloy 6063-T5 or -T52.

2.2 METAL WALL LOUVERS (TYPE DB)

Weather resistant type, with bird screens and made to withstand a wind load of not less than [30 pounds per square foot](#). Wall louvers shall bear the AMCA certified ratings program seal for air performance and water penetration in accordance with [AMCA 500-D](#) and [AMCA 511](#). The rating shall show air pressure drop no greater than [0.10-inches](#) W.G. at 800 FPM air velocity through the louver free area and a water penetration of [0.10 or less ounce per square foot](#) of free area at a free velocity of [1000 feet](#) per minute.

2.2.1 Extruded Aluminum Louvers

Fabricated of extruded 6063-T5 or -T52 aluminum with a wall thickness of not less than [0.081 inch](#). Frame shall be [4 inches](#) deep.

2.2.2 Blades

Extruded aluminum, minimum [0.081 inch](#) thick, [35 degree to 45 degree](#) pitch angles, with integral front drain gutter, spaced 3 inches to 4 inches on center.

2.2.3 Mullions and Mullion Covers

Same material and finish as louvers. Provide mullions for all louvers more than [5 feet](#) in width at not more than [5 feet](#) on centers. Provide mullions covers on both faces of joints between louvers.

2.2.4 Screens and Frames

For aluminum louvers, provide [14 or 16 gage](#) aluminum [1/2 inch](#) square mesh. Mount screens in removable, rewirable frames of same material and finish as

the louvers.

2.3 FASTENERS AND ACCESSORIES

Provide stainless steel screws and fasteners for aluminum louvers. Provide other accessories as required for complete and proper installation.

2.4 FINISHES

2.4.1 Aluminum

Provide factory-applied anodic coating.

2.4.1.1 Anodic Coating

Clean exposed aluminum surfaces and apply an anodized finish conforming to AA DAF-45 Designation System for Aluminum Finishes, integral color anodized, M10C22A32, Architectural Class II, color medium bronze as scheduled in Louver Schedule on drawings.

PART 3 EXECUTION

3.1 INSTALLATION

3.1.1 Wall Louvers

Install using stops or moldings, flanges, strap anchors, or jamb fasteners as appropriate for the wall construction and in accordance with manufacturer's recommendations.

3.1.2 Screens and Frames

Attach frames to louvers with screws or bolts.

3.2 PROTECTION FROM CONTACT OF DISSIMILAR MATERIALS

3.2.1 Aluminum

Where aluminum contacts metal other than zinc, paint the dissimilar metal with a primer and two coats of aluminum paint.

3.3 CLEANING

a. After erection, protect exposed portions from damage by machines, paint, lime, acid, cement, or other harmful compounds.

b. Remove protective materials and clean with plain water, water with soap, or household detergents.

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