

GUIDELINE MASTER ACOUSTICAL LOUVER SPECIFICATIONS

[INSERT THIS SECTION IN PART 2 – PRODUCTS OF THE APPROPRIATE SECTION WITHIN DIVISION 15, MECHANICAL SYSTEMS]

2.XX ACOUSTICAL LOUVERS

[Use the one of the following two paragraphs.]

2.XX.1 Louver frame shall be constructed with 16 gauge (1.63 mm) minimum **[galvanized steel // stainless steel]**. Louver blades shall be **[flat // herringbone // airfoil]** configuration and made of 18 gauge (1.24 mm) minimum solid **[galvanized steel // stainless steel]**, and 22 gauge (0.81 mm) minimum perforated **[galvanized steel // stainless steel]**.

2.XX.1 Louver frame shall be constructed with 14 gauge (1.63 mm) minimum aluminum. Louver blades shall be **[flat // herringbone // airfoil]** configuration and made of 16 gauge (1.29 mm) minimum solid aluminum, and 20 gauge (0.81 mm) minimum perforated aluminum or expanded metal.

[Use the one of the following two paragraphs.]

2.XX.2 Acoustical fill shall MoldBlock Media™ insulation containing natural cotton fibers treated with a borate solution to actively inhibit the growth of mold, bacteria and fungi. Media shall not contain any formaldehydes or VOC's. Media shall be 100% recyclable. Media shall comply with UL181 and NFPA 90A. Glass fiber, fiberglass and rockwool will not be permitted as substitutes for MoldBlock Media™ insulation.

2.XX.2 Acoustical fill shall be bacteria and fungus resistant, shot-free glass fiber insulation. Glass fiber density and compression shall be as required to insure conformance with laboratory test data.

2.XX.3 Acoustical media shall be encapsulated with **[fiberglass cloth // non-woven fabric // Tedlar]** **[as indicated on the drawings]** to minimize erosion and impregnation of the glass fiber. **[The fabric shall be fire retardant, complying with NFPA 90A and shall also be treated with a fungal inhibitor and water repellent finish.]**

[Anodized finish is for aluminum louvers only. Other finishes are available.]

2.XX.4 Louvers shall be **[supplied with a standard mill finish // supplied with a prime coat for field painting onsite by others // finished with a satin coat / galvaneal material for painting onsite by others // supplied with a baked enamel finish; color as directed by the Architect // anodized; clear or color as directed by the Architect]**.

2.XX.5 Louver acoustical and aerodynamic performance shall be as indicated on the schedule.

2.XX.5 Louver acoustical performance shall be determined per ASTM E90-02. Louver aerodynamic performance shall be determined per AMCA Standard 500-L-99. Manufacturer shall submit certified data substantiating both the specified acoustic and aerodynamic performance.

2.XX.6 Acceptable manufacturers: Vibro-Acoustics (basis of design).