

**Part 1 General**

**1.1 RELATED DOCUMENTS**

- .1 Drawings and Division 01 specification Sections apply to this Section.
- .2 Execute the Work in compliance with the requirements of section 01 14 00 – Work Restriction.
- .3 Section 21 05 01 – Common Work Results – Mechanical.

**1.2 REFERENCES**

- .1 ASTM International
  - .1 ASTM E90-09, Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements.
- .2 Sheet Metal and Air Conditioning Contractors' National Association (SMACNA)

**1.3 ACTION AND INFORMATIONAL SUBMITTALS**

- .1 Submit in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Product Data:
  - .1 Submit manufacturer's instructions, printed product literature and data sheets for louvers, and include product characteristics, performance criteria, physical size, finish and limitations.
  - .2 Indicate following:
    - .1 Pressure drop.
    - .2 Face area.
    - .3 Free area.
- .3 Certificates: submit certificates signed by manufacturer certifying that materials comply with specified performance characteristics and physical properties.
- .4 Test Reports: submit certified data from independent laboratory substantiating acoustic and aerodynamic performance to ASTM E90.

**1.4 DELIVERY, STORAGE AND HANDLING**

- .1 Deliver, store and handle materials in accordance with Section 01 61 00 - Common Product Requirements and with manufacturer's written instructions.
  - .2 Delivery and Acceptance Requirements: deliver materials to site in original factory packaging, labelled with manufacturer's name and address.
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- .3 Storage and Handling Requirements:
  - .1 Store materials indoors and in accordance with manufacturer's recommendations in clean, dry, well-ventilated area.
  - .2 Store and protect louvers, intakes and vents from nicks, scratches, and blemishes.
  - .3 Replace defective or damaged materials with new.
- .4 Develop Construction Waste Management Plan related to Work of this Section.
- .5 Packaging Waste Management: remove for reuse of pallets, crates, padding, packaging materials as specified in Construction Waste Management Plan in accordance with Section 01 74 21 – Waste Management and Disposal Demolition/Construction Waste Material Tracking Sheet.

## **Part 2 Products**

### **2.1 SYSTEM DESCRIPTION**

- .1 Performance Requirements:
  - .1 Catalogued or published ratings for manufactured items: obtained from tests carried out by manufacturer or those ordered by manufacturer from independent testing agency signifying adherence to codes and standards.

### **2.2 FIXED LOUVRES - ALUMINUM**

- .1 Construction: welded with exposed joints ground flush and smooth.
  - .2 Material: extruded aluminum alloy 6063-T5.
  - .3 Blade: stormproof pattern with centre watershed in blade, reinforcing bosses and maximum blade length of 1500 mm.
  - .4 Frame, head, sill and jamb: 150 mm deep one piece extruded aluminum, minimum 3 mm thick with approved caulking slot, integral to unit.
  - .5 Mullions: at 1500 mm maximum centres.
  - .6 Fastenings: stainless steel SAE-194-8F with SAE-194-SFB nuts and resilient neoprene washers between aluminum and head of bolt, or between nut, ss washer and aluminum body.
  - .7 Screen: 12 mm exhaust, 19 mm intake mesh, 2 mm diameter wire aluminum birdscreen on inside face of louvres in formed U-frame.
  - .8 Finish: factory applied enamel, prime coated. Colour: to be selected from Manufacturer's standard range by Departmental Representative.
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**Part 3            Execution**

**3.1            EXAMINATION**

- .1    Verification of Conditions: verify that conditions of substrate previously installed under other Sections or Contracts are acceptable for louvres, intakes and vents installation in accordance with manufacturer's written instructions.
  - .1    Visually inspect substrate in presence of Departmental Representative.
  - .2    Inform Departmental Representative of unacceptable conditions immediately upon discovery.
  - .3    Proceed with installation only after unacceptable conditions have been remedied.

**3.2            INSTALLATION**

- .1    In accordance with manufacturer's and SMACNA recommendations.
- .2    Reinforce and brace as indicated.
- .3    Anchor securely into opening. Seal with caulking to ensure weather tightness.

**3.3            CLEANING**

- .1    Progress Cleaning: clean in accordance with Section 01 74 13 – Progress and Final Cleaning.
  - .1    Leave Work area clean at end of each day.
- .2    Final Cleaning: upon completion remove surplus materials, rubbish, tools and equipment in accordance with Section 01 74 13 – Progress and Final Cleaning. Waste Management: separate waste materials for recycling in accordance with Section 01 74 21 – Waste Management and Disposal Demolition/Construction Waste Material Tracking Sheet.
  - .1    Remove recycling containers and bins from site and dispose of materials at appropriate facility.

**END OF SECTION**

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