

**Part 1        General****1.1           RELATED SECTIONS**

- .1        Section 01 00 10 – General Instructions.
- .2        Section 21 05 01 – Common Work Results for Mechanical.
- .3        Section 23 31 13.01 - Metal Ducts - Low Pressure to 500 Pa.

**1.2           REFERENCES**

- .1        American Society for Testing and Materials International (ASTM)
  - .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)
- .3        Society of Automotive Engineers (SAE)

**1.3           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.

**1.4           SUBMITTALS**

- .1        Product Data:
  - .1        Submit manufacturer's printed product literature, specifications and datasheet in accordance with Section 01 00 10 – General Instructions. Include product characteristics, performance criteria, and limitations.
  - .2        Indicate following:
    - .1        Pressure drop.
    - .2        Face area.
    - .3        Free area.
    - .4        Material.
- .2        Test Reports:
  - .1        Submit certified data from independent laboratory substantiating acoustic and aerodynamic performance to ASTM E90.

**1.5           QUALITY ASSURANCE**

- .1        Health and Safety Requirements: do construction occupational health and safety in accordance with Section 01 35 29.06 - Health and Safety Requirements.

**1.6 DELIVERY, STORAGE, AND HANDLING**

- .1 Packing, shipping, handling and unloading:
  - .1 Deliver, store and handle in accordance with Section 01 00 10 – General Instructions.
  - .2 Deliver, store and handle materials in accordance with manufacturer's written instructions.
- .2 Waste Management and Disposal:
  - .1 Construction/Demolition Waste Management and Disposal: separate waste materials for reuse and recycling in accordance with Section 01 00 10 – General Instructions.

**Part 2 Products****2.1 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: 100 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 Backdraft damper Aluminum.
- .8 Screen: 12 mm exhaust mesh, 2 mm diameter wire aluminum birdscreen on inside face of louvres in formed U-frame.
- .9 Finish: factory applied enamel. Colour: to Departmental Representative's approval.
- .10 LV-01
  - .1 Stationary, stormproof, 100 mm deep, power c/w 19 gauge birdscreen
  - .2 Construction: extruded aluminum frame and blades.
  - .3 Blades: stormproof pattern, 2.06 mm thick.
  - .4 Dimensions: 600 x 600 mm.
  - .5 Free area: minimum of 0.1 m<sup>2</sup>
  - .6 Finish: factory enamel. Colour to match enclosure.

**Part 3            Execution**

**3.1                MANUFACTURER'S INSTRUCTIONS**

- .1        Compliance: comply with manufacturer's written recommendations or specifications, including product technical bulletins, handling, storage and installation instructions, and datasheet.

**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        Proceed in accordance with Section 01 00 10 – General Instructions.
- .2        Upon completion and verification of performance of installation, remove surplus materials, excess materials, rubbish, tools and equipment.

**END OF SECTION**