

PART 1 - GENERAL

- 1.1 REFERENCES
- .1 Canada Green Building Council (CaGBC)
 - .1 LEED Canada 2009 for Design and Construction, LEED Canada 2009 for Design and Construction Leadership in Energy and Environmental Design Green Building Rating System Reference Guide.
 - .2 Sheet Metal and Air Conditioning Contractors' National Association (SMACNA)
 - .3 Society of Automotive Engineers (SAE)
- 1.2 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, intakes and vents and include product characteristics, performance criteria, physical size, finish and limitations.
 - .2 Indicate following:
 - .1 Pressure drop.
 - .2 Face area.
 - .3 Free area.
 - .4 Dimensions
 - .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 E 90.
 - .5 Sustainable Design Submittals:
 - .1 LEED Canada submittals: in accordance with Section 01 35 21 - LEED Requirements.
 - .2 Construction Waste Management:
 - .1 Submit project Waste Management Plan highlighting recycling and salvage requirements.
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- 1.3 DELIVERY, STORAGE AND HANDLING
(Cont'd)
- .5 Packaging Waste Management: remove for reuse or return of pallets, crates, padding, banding, and packaging materials as specified in Construction Waste Management Plan in accordance with Section 01 74 21 - Construction/Demolition Waste Management and Disposal and Section 01 35 21 - LEED Requirements.

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 GRAVITY ROOF OUTSIDE AIR INTAKES AND RELIEF VENTS
- .1 Factory manufactured galvanized steel hinged at curb line.
.1 Complete with integral birdscreen of 2.7 mm diameter ss wire.
.2 Vertical backdraft dampers on 4 faces.
.3 Maximum throat velocity: 3.3 m/s intake.
.4 Maximum loss through unit: 15 Pa exhaust static pressure.
.5 Maximum velocity through damper area: 1.5 m/s.
.6 Shape: as per drawings.
- .2 Birdscreens:
.1 Complete with integral birdscreen of 2.7 mm diameter ss wire. Use 12 mm mesh on exhaust 19 mm mesh on intake.
- 2.4 FIXED LOUVRES - ALUMINUM
- .1 Construction: welded with exposed joints ground flush and smooth.
- .2 Material: extruded aluminum alloy 6063-T5.
- .3 Blade: drainable stormproof pattern with centre watershed in blade, reinforcing bosses and maximum blade length of 1500 mm.
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- 2.4 FIXED LOUVRES - .4 Frame, head, sill and jamb: 150 mm deep one
ALUMINUM piece extruded aluminum, minimum 3 mm thick
(Cont'd) 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 premium polymer
finish for all louvres. Colour: to
Departmental Representative's approval at shop
drawing review. Submit colour chips and
samples with shop drawings for colour
selector. Finish shall be rated for 25 years
with minimum warranty of 5 years.

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 and
after receipt of written approval to proceed
from Departmental Representative.
- 3.2 INSTALLATION .1 In accordance with manufacturer's and SMACNA
recommendations.
- .2 Reinforce and brace as indicated.
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