

PART 1 - GENERAL

- 1.1 REFERENCES .1 American National Standards Institute/Air Movement and Control Association (ANSI/AMCA)
- .1 ANSI/AMCA Standard 99-Latest Edition, Standards Handbook.
  - .2 ANSI/AMCA Standard 210-Latest Edition/(ANSI/ASHRAE 51-Latest Edition), Laboratory Methods of Testing Fans for Aerodynamic Performance Rating.
  - .3 ANSI/AMCA Standard 300-Latest Edition, Reverberant Room Method for Sound Testing of Fans.
  - .4 ANSI/AMCA Standard 301-Latest Edition, Methods for Calculating Fan Sound Ratings from Laboratory Test Data.
- 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 roof exhausters and include product characteristics, performance criteria, physical size, finish and limitations.
- .3 Shop Drawings:
- .1 Submit drawings stamped and signed by professional engineer registered or licensed in Province of Newfoundland and Labrador, Canada.
  - .2 Include:
    - .1 Fan performance curves showing specified point of operation.
    - .2 Sound rating data.
- 1.3 MAINTENANCE MATERIAL SUBMITTALS .1 Extra Materials:
- .1 Submit in accordance with Section 01 78 00 - Closeout Submittals.
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- 2.1 SYSTEM DESCRIPTION (Cont'd)
- .1 (Cont'd)
    - .2 Capacity: flow rate, total static pressure Pa, r/min, W, model and size and sound ratings as indicated on schedule.
    - .2 Statically and dynamically balanced. Constructed to ANSI/AMCA Standard 99.
    - .3 Performance ratings: based on tests performed in accordance with ANSI/AMCA Standard 210, unit to bear AMCA certified rating seal.
    - .4 Bearings: sealed lifetime ball or roller bearings of self aligning type with oil retaining, dust excluding seals and a certified minimum rated life of 100,000 hours.
- 2.2 ROOF EXHAUSTERS
- .1 Centrifugal V belt driven.
    - .1 Housings: spun aluminum complete with resilient mounted motor and fan.
    - .2 Impeller: aluminum non-overloading.
    - .3 Adjustable motor sheave.
    - .4 12 mm mesh 2.0 mm diameter aluminum birdscreen.
    - .5 Automatic gasketed aluminum backdraft dampers.
    - .6 Disconnect switch within fan housing.
    - .7 Curb cap with prepunched mounting holes.
    - .8 Motor and drives isolated on shock mounted.
    - .9 Drain through.
    - .10 Static resistant belts.
    - .11 Corrosion resistant fasteners.
    - .12 Internal lifting lugs.
    - .13 Grease trap.
    - .14 Junction box mounted and wired.
    - .15 CSA approved motor.
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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 roof and wall exhausters 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 Install in accordance with manufacturer's instructions.
- 3.3 ANCHOR BOLTS AND TEMPLATES .1 Size anchor bolts to withstand seismic acceleration and velocity forces.
- 3.4 CLEANING .1 Progress Cleaning: clean in accordance with Section 01 74 11 - 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 11 - Cleaning.  
.3 Waste Management: separate waste materials for reuse and recycling.