

AIR THERM INC.

www.air-therm.com

TEL: (514) 482-2067

FAX: (514) 482-6806



AIR-THERM GRAVITEC THERMODYNAMIC NATURAL VENTILATION SPECIFICATION FOR VENTILATORS LOW PROFILE "K"

1. DESCRIPTION:

- The ventilator shall be of the Gravitec Low Profile type "K" as manufactured by Air-Therm Inc.. They shall be the sizes shown on the drawings.

2. QUALITY ASSURANCE AND CONTROL:

- The level of quality assurance associated with the requirements of ISO 9002 shall be applied to the contract using the practices, resources and activities proprietary to Air-Therm construction system.

3. SUBSTITUTIONS:

- No substitutions will be considered unless written request for approval has been submitted by the bidder and has been received by the designer at least ten days prior the bid date. Any proposed substitutions should meet the standards set by the specifications.

4. PERFORMANCE:

- The ventilators shall have coefficient of discharge of 0,32. The ventilators shall be designed to perform as specified regardless of wind capacity or direction.

5. DESIGN:

- The ventilator shall be design to Industrial standards and adhere to ALL pertinent sections of the Building Code of _____ Ventilator shall be of a design developed and fabricated by Air-Therm specifically for industrial environmental conditions and quality standards.
- The ventilators shall be weather resistant under normal positive operating conditions.
- The ventilator shall be equipped with wind diaphragms to afford efficient ventilation regardless of wind direction.
- Weather Gap system with all fasteners installed through non-skinning 2nd stage system.

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6. MATERIALS:

- All framing and internal bracing shall be not less than ¼" ASTM 44W carbon steel.
- The ventilator frames shall be SEALED WELDED.
- The ventilator cladding shall be 20 or 22 gauge steel or 5022-H32 grade aluminium to withstand environmental conditions. All flashings shall be made of the same material.
- Roll Profiled Material shall be corrugated shape profiled to 7/8" depth.
- The ventilator cladding shall be fastened utilizing self-tapping grade 304 stainless steel # 14 screws with metal washer and zero UV weather seal.
- Flashings shall be connected utilizing Air-Therm triple protection methodology to ensure long term weather resistance.
- Flashings shall be shop prepared with Sure-Fit system for easy site preparation and installation in order to ensure a better installation and assured long term weather resistance.

7. ACCESSORIES:

- Ventilators shall be equipped with 1/2" mesh, 19 GA, galvanized BIRDSCREEN .
- Paint-color to match, paint applied to wing exteriors only, interior of wings and R-Vent sections, mill finish

8. MATERIAL CONTROL:

- Material received shall be verified as correct against delivery dockets and material certificates.

9. FABRICATION MANUFACTURING PROCEDURES:

- All fabrication shall be carried out according to written procedures.
- Inspection documents shall be kept updated and available for inspection.
- All material shall be identified.

10. INSTALLATION AND ERECTION:

- Install Gravitec Ventilator Low Profile type "R" and accessories in conformance with approved drawings and Air-Therm specifications.

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11. DEFECTIVE MATERIAL:

- All deficiencies shall immediately be tagged as such.
 - All defective material shall be segregated.
 - All defective material shall be noted in the fabrication logbook.
 - Corrective action shall be taken to prevent the recurrence of defective material.
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