

SECTION 233724 - ROOF AIR INTAKES AND RELIEF VENTS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of Contract, including General and Supplementary Conditions and Division-01 Specification sections, apply to work of this section.

1.2 SCOPE

- A. Provide factory assembled roof air intake(s) and relief vent(s) where indicated. Sizes and operating characteristics shall be as scheduled on drawings or as otherwise indicated.

1.3 RELATION TO OTHER WORK

- A. Refer to the section, "General Mechanical Provisions", for related requirements. Refer to other sections of Division 23 and to all other applicable portions of the Drawings and Specifications.

1.4 SHOP DRAWINGS

- A. Refer to requirements of Section entitled "General Mechanical Provisions". Include complete data on sizes; required clearances; direction of air flow; construction and dimensions; and capacities, static pressure losses, free areas and other operating characteristics.

1.5 MANUFACTURERS

- A. Products listed in this Section or on the plans are based on a specific manufacturer to establish the desired style, quality and type. Equivalent products, complying with the requirements of this Section and the installation requirements of the plans, by the following manufacturers are acceptable:
 - 1. Acme
 - 2. Ilg
 - 3. Cook
 - 4. Jenn-Air
 - 5. Penn
 - 6. Carnes
 - 7. Greenheck
 - 8. Powerline

PART 2 - PRODUCTS

2.1 GENERAL

- A. Sized as indicated.

- B. Low silhouette type.
- C. Rain-tight under all operating conditions.
- D. Constructed of any of the following materials: all fiberglass, spun or extruded aluminum, galvanized steel.
- E. Pass indicated air quantities at not greater than 0.05 inches w.g. total pressure or as scheduled and, for intakes only, 500 fpm maximum throat and perimeter velocity.
- F. 1/4" Mesh galvanized steel or PVC coated bird screen. Provided with parallel or opposed blade volume dampers and/or backdraft dampers where indicated.
- G. Hood and curb assembly shall meet the wind load requirements of the Florida Building Code.

PART 3 - EXECUTION

3.1 PLACEMENT AND MOUNTING

- A. Location shall be essentially as shown on the drawings, however, actual placement of the roof curb shall be verified using field measurements and data relating to the equipment approved for actual installation on this project. Mount items in strict accord with manufacturer's instructions. Permanently secure to roof curbs.

3.2 DUCT CONNECTIONS

- A. Connect ducts (where required) to roof curb inlet flanges using flexible connectors. Install connectors properly so that they are not in tension and are aligned with ductwork.

3.3 TEST AND BALANCE

- A. Unless specified otherwise and prior to requesting final inspection, operate equipment and adjust to achieve design air flow.

END OF SECTION 233724