SECTION 23.37.00
AIR OUTLETS AND INLETS

PART 1 – GENERAL

1.01 SECTION INCLUDES
A. Diffusers.
B. Registers/grilles.
C. Louvers.

1.02 REFERENCES
A. AMCA 500-L - Laboratory Methods of Testing Louvers for Rating; Air Movement and Control Association International, Inc.
B. ASHRAE Std 70 - Method of Testing for Rating the Performance of Air Outlets and Inlets; American Society of Heating, Refrigerating and Air Conditioning Engineers, Inc.

1.03 SUBMITTALS
A. Product Data: Provide data for equipment required for this project. Review outlets and inlets as to size, finish, and type of mounting prior to submission. Submit schedule of outlets and inlets showing type, size, location, application, and noise level.
B. Project Record Documents: Record actual locations of air outlets and inlets.

1.04 QUALITY ASSURANCE
A. Test and rate air outlet and inlet performance in accordance with ASHRAE Std 70.
B. Test and rate louver performance in accordance with AMCA 500-L.

1.05 QUALITY ASSURANCE
A. Manufacturer Qualifications: Company specializing in manufacturing the type of products specified in this section, with minimum three years of experience.

PART 2 – PRODUCTS

2.01 ROUND CEILING DIFFUSERS – See Drawings

2.02 RECTANGULAR CEILING DIFFUSERS – See Drawings

2.03 CEILING EXHAUST AND RETURN REGISTERS/GRILLES – See Drawings

2.04 CEILING GRID CORE EXHAUST AND RETURN REGISTERS/GRILLES – See Drawings

2.05 LOUVERS
A. Type: 4 inch (100 mm) deep with blades on 45 degree slope, heavy channel frame, 1/2 inch (13 mm) square mesh screen over exhaust and 1/2 inch (13 mm) square mesh screen over intake.
B. Fabrication: 16 gage (1.50 mm) thick galvanized steel welded assembly, with factory baked enamel finish, color to be selected.
C. Mounting: Furnish with screw holes in jambs for installation.
PART 3 – EXECUTION

3.01 INSTALLATION

A. Install in accordance with manufacturer's instructions.

B. Check location of outlets and inlets and make necessary adjustments in position to conform with architectural features, symmetry, and lighting arrangement.

C. Install diffusers to ductwork with air tight connection.

D. Provide balancing dampers on duct take-off to diffusers, and grilles and registers, despite whether dampers are specified as part of the diffuser, or grille and register assembly.

E. Paint ductwork visible behind air outlets and inlets matte black.

END OF SECTION