15290 DUCTWORK INSULATION

PART 1: GENERAL

1.01 RELATED SECTIONS
A. Section 15880 – Air Distribution

1.02 INSULATION THICKNESS AND TYPES
A. All supply ductwork in non-conditioned spaces shall be insulated as follows:
   1. Exposed Ductwork: 1.5-inch rigid fiberglass board, 3.0 pounds per cubic foot density, to a minimum R-value of 5, complete with a factory applied reinforced aluminum foil vapor barrier, suitably anchored and sealed at all points.
   2. Concealed Ductwork: 1.5-inch fiberglass blanket, 0.75 pounds per cubic foot density, to a minimum R-value of 5, complete with a factory applied vapor barrier, suitably anchored and sealed at all points.

B. Outside Air Intakes and Exterior Ducts: 2-inch thick rigid, fiberglass board, 6.0 pounds per cubic foot density, to a minimum R-value of 8, complete with insulation faced and anchored as described for exposed ductwork.

C. Dedicated outside air system supply ductwork installed in non-conditioned spaces shall be insulated as mentioned above, even if the design temperature difference between the operating temperature and duct plenum is within 15 °F. This will allow future operation at lower system discharge air temperatures if needed to provide additional zone humidity control.

D. The use of flexible elastomeric insulation on ductwork is permitted as an acceptable alternative to fiberglass. Insulation shall be adhered to 100% of the duct surface area.

PART 2: PRODUCTS

2.01 PREFERRED MANUFACTURERS:
A. Fiberglass Insulation
   1. Johns Manville
   2. Knauf

B. Flexible Elastomeric
   1. Armacell LLC