

SECTION 15891DUCT INSULATION & LININGPART 1 - GENERAL1.1 DESCRIPTION

- A. Work Included: Provide and install all duct insulation as shown on the Drawings and specified herein.
- B. Related Work Specified Elsewhere: "HVAC - General" is specified in this Division.

1.2 QUALITY ASSURANCE

- A. Fire Hazard Rating: When tested by ASTM E84 method flame spread rating shall not exceed 25.
- B. Acceptable Manufacturers:
 - 1. Closed cellular flexible plastic:
 - a. Armstrong "AP/ARMAFLEX".
 - b. Rubetex.
 - c. Or approved equal
 - 2. Fiberglass:
 - a. Owens-Corning.
 - b. Knauf.
 - c. Certainteed.
 - d. Or approved equal.

1.3 SUBMITTALS TO THE ENGINEER

- A. Submit samples of each insulation type.
- B. Submit 2'-0" piece of sealing tape.

PART 2 - PRODUCTS2.1 MATERIALS

- A. Duct insulation:
 - 1. One inch thick closed cellular flexible plastic
 - 2. Thermal conductivity @ 75°F: 0.27/inch minimum
 - 3. UL flame spread: 25 or less
 - 4. Equal to Armstrong AP/ARMAFLEX

PART 3 - EXECUTION

3.1 APPLICATION

- A. Duct Insulation:
 - 1. Required on all outside air intakes from exterior wall or roof to duct termination including fan casing.
 - 2. Required on all heated or cooled supply air ductwork from air handling unit to duct termination including air handler if not factory insulated.
 - 3. Required on exhaust ductwork from outside closure damper to exterior wall or roof.
 - 4. Insulate entire ducts and seal to prevent condensation on cold surfaces, including standing seams, support straps, and other metal attached to the ductwork.
 - 5. Insulate access doors and gaskets to prevent metal to metal contact.
- B. Apply insulation to clean, dry ductwork.
- C. Remove damaged insulation and replace to the satisfaction of the Engineer at no additional cost to the Owner.
- D. Closed cellular plastic:
 - 1. Obtain adhesive from the insulation manufacturer and apply to entire duct surface, and all joints.
 - 2. Apply in strict accordance with manufacturer's instructions and recommendations.

END OF SECTION