

PART I – GENERAL**WORK SPECIFIED HEREIN**

- All pipe insulation, for new domestic hot water, cold water supply piping and condensate piping.

SUBMITTALS

- Unless otherwise noted, the contractor shall prepare all shop drawings, product literature, etc. only as required to properly coordinate and construct the project.
- Review of submittals by the Professional of Record is limited to specific shop drawings as called for in the Project Manual.
- Shop drawings for review by the Professional of Record are not required for this section.

PART II – PRODUCTS**ALTERNATE EQUIPMENT**

- Below is list of alternate equipment. Refer to Section 15000 for instructions.
- Pipe insulation: Owens-Corning, Certain-Teed, Johns-Manville, Armstrong.
- Pipe insulation fittings: Zeston, Manville, or equal.

MATERIALS

- All domestic cold and hot water piping exposed above finished floor and partitions, shall be insulated to conform to ASHRAE standards.
- All condensate piping shall be insulated.
- Insulation Schedule: 1/2" insulation for pipes up to 3/4" diameter.
1" insulation for pipes 1" - 2" in diameter
1-1/2" insulation for pipes greater than 2" in diameter
- All insulation shall be fiberglass 25 ASJ/SSL with 4" wide longitudinal lap joints and end strips.
- All insulation, vapor barriers, jackets, and adhesives used for applying them shall have a U.L. flame spread classification of not more than 25 and a smoke developed rating not more than 50.
- Valves and fittings shall be insulated to same thickness as pipe insulation with only wheel and adjusting nut visible. Provide pre-molded plastic fittings at all valves and fittings (Fiberglass).
- Hangers - 180° rigid insulation section at all hangers. Eight inches long, 90°, 20 gauge, galvanized steel insulation guard and rigid insulation on lines 2-1/2" and larger.

PART III – EXECUTION**WORKMANSHIP**

- Tightly butt all end joints together.
- Valve bonnets and flanges will be completely insulated. All miters and raw ends of piping covering are to be fully sealed neatly in place with butt strip and fire retardant sealing adhesive. Use NO staples.
- Fittings or fabricated mitered segments of pipe insulation securely wired in place. Cover mitered segments with a 1/4" coat of hard setting finishing cement. Insulate flanges with sectional pipe insulation extending a minimum of 1" beyond the ends of the bolts. Fill both areas with mineral wool cement. Insulate fittings with insulation cement to the thickness on adjacent piping. Apply insulation in 2 layers. Allow the first layer to dry before applying a second layer. Trowel the final coat to a smooth, even finish. The cover the fittings with a ounce canvas and "Arabol Lagging Adhesive" to a smooth finished surface. Finish all exposed canvas jacketing with two coats of "Arabol Lagging Adhesive".
- Contractor shall be responsible for the replacement of all insulation installed as a part of his work, that is damaged by water, etc., during the construction period.
- All hanger rods must be perpendicular before piping covering is applied.

END OF SECTION

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