

## SECTION 22 07 00

### PLUMBING INSULATIONPLUMBING INSULATION

This document is intended to note the Owners Design Requirements (ODR) for the titled specification section. Design professional to review and integrate ODR into the project's technical specifications. This ODR document should not be viewed as a standalone technical specification.

#### PART 1 - GENERAL REQUIREMENTS

- ◆ Quality assurance
  - Flame/Smoke Ratings: Provide composite Plumbing insulation (insulation, jackets, coverings, sealers, mastics and adhesives) with flame-spread index of 25 or less, and smoke-developed index of 50 or less, as tested by ASTM E 84 (NFPA 255) method.
    - Exception: Outdoor Plumbing insulation may have flame spread index of 75 and smoke developed index of 150.

#### PART 2 - PRODUCTS AND MATERIALS

- ◆ Piping insulation materials
  - Fiberglass Piping Insulation
  - Jackets for Piping Insulation
    - Type I for piping with temperatures below ambient
    - Type II for piping with temperatures above ambient
  - Encase pipe fittings insulation with one-piece pre-molded PVC fitting covers, fastened as per manufacturer's recommendations. PVC fitting covers shall be Johns Manville Zeston 2000 PVC

#### PART 3 - EXECUTION

- ◆ Insulation must meet energy code.
  - Cold Piping with Fiberglass 1" thickness
    - Potable cold water piping.
    - Plumbing vents within 6 lineal feet of roof outlet.
    - Condensate Piping
  - Domestic Tempered/Hot Water Piping:
    - Fiberglass: 1" thick for pipe sizes up to and including 6", 1-1/2" thick for pipe sizes over 6".
    - Insulate hot water piping systems up to 140F specified above with one of the following types and thicknesses of insulation:
      - Fiberglass: 1" thick for pipe sizes up to and including 1-1/2", 1-1/2" thick for pipe sizes 2" and larger.
  - Piping Inside Masonry Wall Units:
    - Insulate cold, hot and hot water recirculation piping installed inside of masonry walls where the piping needs to be insulated as the wall is constructed as described below:
      - Flexible Elastomeric: 1/2" thick for pipe sizes up to and including 2", 1" thick for pipe sizes 2" to 6" (largest size permitted).
  - Exterior piping:
    - Encase cold, hot and hot water recirculation piping insulation with aluminum weather-proof jackets.
- ◆ Existing insulation repair
  - Repair damaged sections of existing Plumbing insulation, both previously damaged or damaged during this construction period. Use insulation of same thickness as existing insulation, install new jacket lapping and sealed over existing.

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- ◆ Protection and replacement
  - Replace damaged insulation which cannot be repaired satisfactorily, including units with vapor barrier damage and moisture saturated units.
  - Protection: Insulation Installer shall advise Contractor of required protection for insulation work during remainder of construction period, to avoid damage and deterioration.

END OF SECTION 22 07 00