

WVU DESIGN GUIDELINES & CONSTRUCTION STANDARDS

DIVISION 22 – PLUMBING

SECTION 220700 – PLUMBING INSULATION

PART 1 - GENERAL

- 1.1. Any deviance from the following instructions must be approved during design by WVU Facilities Management personnel.

PART 2 - PRODUCTS

- 1.1. N/A

PART 3 - EXECUTION

3.1. Piping

A. Domestic Cold Water, Condensate Drain Piping, Interior Roof Drains, and Plumbing Vents:

1. Material: Inorganic glass fiber with a thermal conductivity, k, of 0.23 btu-in/hr-ft²-F @ 75 degrees F. Jacket: White kraft paper bonded to aluminum foil, reinforced with fiberglass scrim
2. Thickness: 1" thick on all pipe sizes
3. Roof drains and plumbing vents shall be insulated for at least the first 10 feet below the roof.

B. Domestic Hot Water and Recirculating Piping:

1. Material: Inorganic glass fiber with a thermal conductivity, k, of 0.23 btu-in/hr-ft²-F @ 75 degrees F. Jacket: White kraft paper bonded to aluminum foil, reinforced with fiberglass scrim

2. Thickness:

<u>Pipe Size</u>	<u>Insulation Thickness</u>
0 – 1.5" nominal OD	1"
2" – 4"	2"
Over 4"	2.5"

C. Other:

1. All valves 2" and larger shall have removable insulation blankets. These are machine sewn with velcro fasteners.
2. All heating and cooling system pumps shall have removable insulation blankets. These are machine sewn with velcro fasteners.
3. All fittings, flanges, and unions shall be insulated the same as its corresponding piping.

4. Insulation shall continue unbroken through any hangers. The insulation shall rest on shields so as not to overly compress the insulation.

END OF SECTION 220700