

MANDATORY PIPE INSULATION

CODE

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All Buildings

The first five feet of hot and cold water pipes from any storage tank or water heater. [150.0(j)2]

- All HW piping with a nominal diameter of $\frac{3}{4}$ " or larger
- All recirculating loop piping. (not branches)
- HW piping from a heating source (e.g., boiler) to a storage tank and between storage tanks.
- HW piping buried below grade. Must also be installed in a non-crushable sleeve that allows for installation and removal of enclosed pipe and insulation.
- All HW pipes from the heating source to kitchen fixtures.

Code Reference: 2013 Title 24, Part 6 Standards §150.0(j)2

Related Requirements

- No insulation shall be installed closer than 6" from a flue pipe.
- All pipe insulation seams must be sealed.
- Insulation must be mitered and notched at corners and T's to avoid exposed, bare pipe.
- Installed piping may not pass through HVAC supply or return air plenums.
- Hot and cold water installed in parallel runs must be at least 2 inches apart.
- If a firewall interrupts the first 5' of insulation, the insulation may end there.
- Insulation exposed to weather must have suitable protection. E.g., aluminum, sheet metal, painted canvas, plastic cover, etc.

Code Reference: UMC Chapter 3

Plumbing

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Notes:
