

FAQ:

What are the requirements for the insulation of water heated by a water heater?

Q1. What are the requirements for the insulation of water heated by a water heater for use Groups R2, R3, and R4 three stories or less in height?

Answer:

The following piping conditions for hot water piping shall be insulated with a thermal resistance R-value of not less than R-3 in accordance with **2018 IECC, Section R403.5.3**:

1. Piping with a nominal diameter of 3/4-inch or larger
2. Piping serving more than one dwelling unit
3. Piping located outside the conditioned space
4. Piping from the water heater to a distribution manifold
5. Piping located under a floor slab
6. Buried piping
7. Supply and return piping in recirculation systems other than demand recirculation systems

Q2. What are the requirements for the insulation of water heated by a water heater for other than use Groups R2, R3, and R4 three stories or less in height?

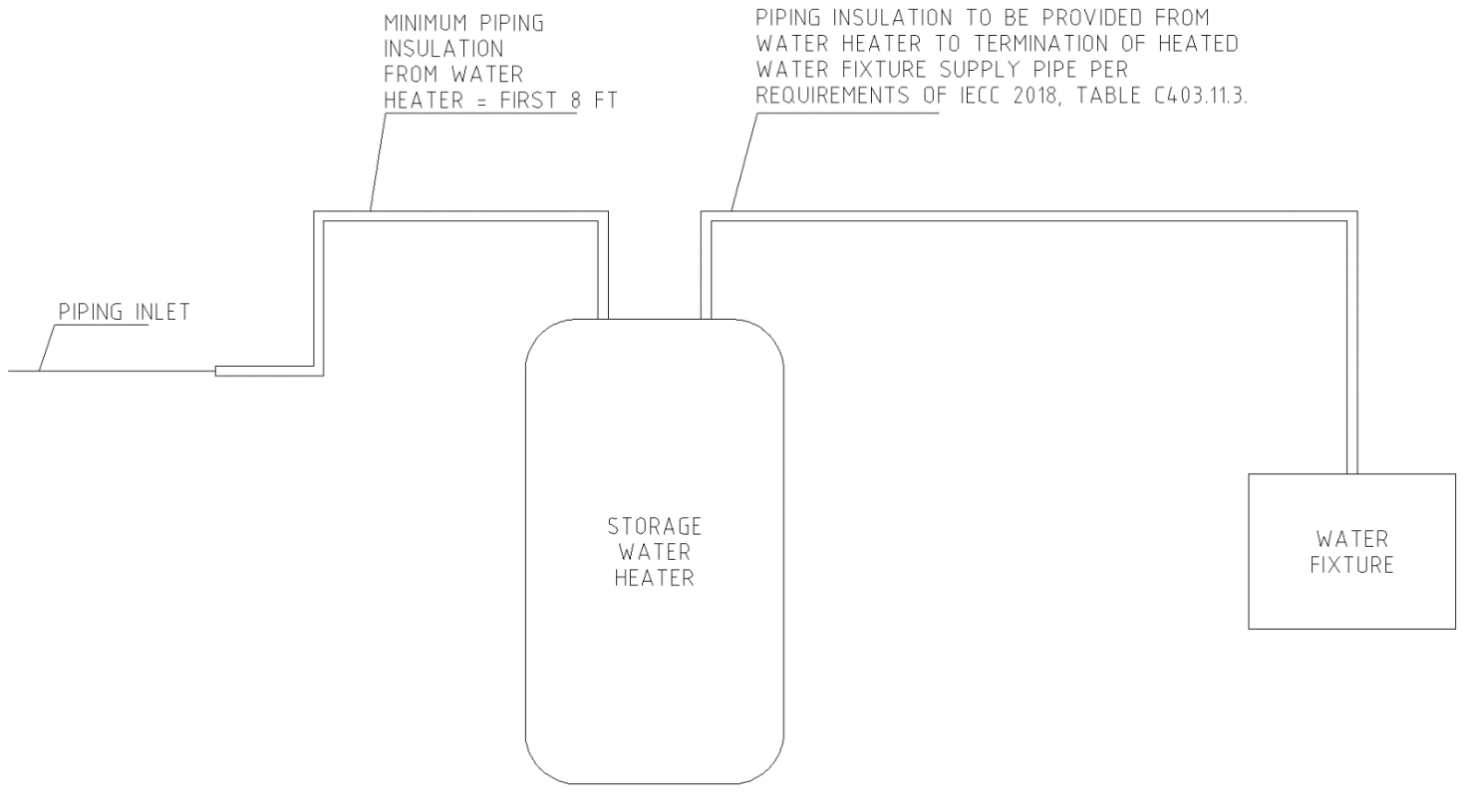
Answer:

All hot water piping shall be insulated in all of the following locations in accordance with **2018 IECC, Section C404.4**:

1. At the water heater to the terminal end of the plumbing fixture supply pipe
2. On the inlet and outlet of a storage water heater, insulation shall be provided to the piping to a heat trap or the first 8 feet of piping, whichever is less.
3. For any piping that is heat traced

See Exhibit A for details.

EXHIBIT A



Questions?

Call 311 or (215) 686-8686 (if outside Philadelphia) or submit an online form via <http://www.phila.gov/li/get-help>.

Disclaimer:

This interpretation, policy or code application is intended to provide guidance to staff for consistency of review and is subject to change without notice. Application of this interpretation, policy or code application to specific projects may vary. There may be other ways to comply with the Code. If so, you are not required to use this method. You may want to investigate other options or consult with a professional identifying an equally code compliant solution.