



**BSR/ASHRAE/IES Addendum q
to ANSI/ASHRAE/IES Standard 90.2-2018**

Public Review Draft

Proposed Addendum q to Standard 90.2-2018, High Performance Energy Design of Residential Buildings

**First Public Review (March 2024)
(Draft Shows Proposed Changes to Current Standard)**

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FOREWORD

This addendum comes in response to a continuous maintenance proposal, which correctly noted that a more precise SI conversion should be used for pipe insulation in Section 7.4.3.4.

[Note to Reviewers: This addendum makes proposed changes to the current standard. These changes are indicated in the text by underlining (for additions) and ~~strikethrough~~ (for deletions) except where the reviewer instructions specifically describe some other means of showing the changes. Only these changes to the current standard are open for review and comment at this time. Additional material is provided for context only and is not open for comment except as it relates to the proposed changes.]

Addendum q to 90.2-2018

Modify Section 4 as follows (SI Units)

7.4.3.4 Insulation. Hot-water piping shall be thermally insulated in a thermally continuous manner in accordance with the following:

- a. Pipe with a nominal diameter less than or equal to 2 in. (50 mm) shall be insulated with tubular pipe insulation such that the minimum wall thickness of the pipe insulation is equal to the nominal diameter of the pipe being insulated. The minimum wall thickness of insulation for piping larger than 2 in. (50 mm) shall be 2 in. (50 mm).
- b. Pipe insulation shall be installed to within 2 in. (50 mm) of all appliances and fixtures, and to within 1/2 in. (12.5 mm) of all structural members or a wall where the pipe passes through to connect to a fixture.

Exceptions to 7.4.3.4(b):

1. Piping located in insulated *walls* where the pipe is surrounded by not less than 1.0 in. (~~30~~25 mm) of insulation.
2. Piping located in insulated ceilings or floors where the pipe is surrounded by not less than 4 in. (100 mm) of insulation.
3. Piping exposed under sinks and toilets.
4. Where the insulation interferes with provisions for mechanical expansion or the mechanical operation of valves.

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