

ADDENDA

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

Energy Efficient Design of Low-Rise Residential Buildings

Approved by ASHRAE and the American National Standards Institute on May 31, 2024, and by the Illuminating Engineering Society on May 8, 2024.

This addendum was approved by a Standing Standard Project Committee (SSPC) for which the Standards Committee has established a documented program for regular publication of addenda or revisions, including procedures for timely, documented, consensus action on requests for change to any part of the standard. Instructions for how to submit a change can be found on the ASHRAE® website (<https://www.ashrae.org/continuous-maintenance>).

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FOREWORD

Editorial Addendum q 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.

Informative Note: In this addendum, changes to the current standard are indicated in the text by underlining (for additions) and ~~striketrough~~ (for deletions) unless the instructions specifically mention some other means of indicating the changes.

Addendum q to Standard 90.2-2018

Modify Section 7.4.3.4 as shown.

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 (b):

1. Piping located in insulated *walls* where the pipe is surrounded by not less than 1.0 in. (~~3025~~ 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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ASHRAE's short-range goal is to ensure that the systems and components within its scope do not impact the indoor and outdoor environment to a greater extent than specified by the Standards and Guidelines as established by itself and other responsible bodies.

As an ongoing goal, ASHRAE will, through its Standards Committee and extensive Technical Committee structure, continue to generate up-to-date Standards and Guidelines where appropriate and adopt, recommend, and promote those new and revised Standards developed by other responsible organizations.

Through its *Handbook*, appropriate chapters will contain up-to-date Standards and design considerations as the material is systematically revised.

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The effects of the design and selection of equipment and systems will be considered within the scope of the system's intended use and expected misuse. The disposal of hazardous materials, if any, will also be considered.

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