

ADDENDA

**ASHRAE/IES Addendum c to
ANSI/ASHRAE/IES Standard 90.1-2022**

Energy Standard for Sites and Buildings Except Low-Rise Residential Buildings

This addendum is editorial only.

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

Section 12, “Energy Cost Budget Method,” and Normative Appendix G, “Performance Rating Method,” are two available whole-building performance compliance options. Each option has different limitations and advantages. Two new informative notes are proposed and summarized below.

- #1—Addresses a CMP and helps the practitioner avoid spending time evaluating PRM under difficult applications.
- #2—Highlights PRM advantages to achieve positive compliance outcome.

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

Addendum cf to Standard 90.1-2022

4.2 Compliance

4.2.1 Compliance Paths

4.2.1.1 New Buildings. New buildings shall comply with Section 4.2.2 through 4.2.5 and either the provisions of

- a. Sections 5, “Building Envelope”; 6, “Heating, Ventilating, and Air Conditioning”; 7, “Service Water Heating”; 8, “Power”; 9, “Lighting”; 10, “Other Equipment”; and 11, “Additional Efficiency Requirements,” or
- b. Section 12, “Energy Cost Budget Method,” or
- c. Normative Appendix G, “Performance Rating Method.”

Informative Note: When deciding which of the whole-building performance paths to use (Section 12, “Energy Cost Budget Method” or Normative Appendix G, “Performance Rating Method”), the following should be considered:

1. Buildings may have difficulty complying with the Performance Rating Method. This is particularly true for buildings with high internal gains, such as data centers; buildings with high ventilation loads, such as laboratories; or other buildings with operational factors that may deviate from the building types included in Table 4.2.1.1.
2. Buildings employing energy savings strategies that include, but are not limited to, the following, may benefit from using the Performance Rating Method:
 - Optimized use of thermal mass
 - Optimized orientation
 - Passive solar heating
 - Optimized daylighting controls
 - Reduced fan power
 - Optimized HVAC system selection
 - Right-sizing of HVAC systems
 - Natural ventilation or passive cooling
 - Optimized elevator systems
 - Efficient exterior lighting
 - Optimized service water heating system type
 - Optimized dedicated outdoor air system (DOAS)

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ASHRAE is concerned with the impact of its members' activities on both the indoor and outdoor environment. ASHRAE's members will strive to minimize any possible deleterious effect on the indoor and outdoor environment of the systems and components in their responsibility while maximizing the beneficial effects these systems provide, consistent with accepted Standards and the practical state of the art.

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.

ASHRAE will take the lead with respect to dissemination of environmental information of its primary interest and will seek out and disseminate information from other responsible organizations that is pertinent, as guides to updating Standards and Guidelines.

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.

ASHRAE's primary concern for environmental impact will be at the site where equipment within ASHRAE's scope operates. However, energy source selection and the possible environmental impact due to the energy source and energy transportation will be considered where possible. Recommendations concerning energy source selection should be made by its members.

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