



**BSR/ASHRAE/IES Addendum f  
to ANSI/ASHRAE/IES Standard 90.1-2025**

**Public Review Draft**

# **Proposed Addendum f to Standard 90.1-2025, Energy Standard for Sites and Buildings Except Low- Rise Residential Buildings**

**First Public Review (June 2026)  
(Draft Shows Proposed Changes to Current Standard)**

This draft has been recommended for public review by the responsible project committee. To submit a comment on this proposed standard, go to the ASHRAE website at [www.ashrae.org/standards-research--technology/public-review-drafts](http://www.ashrae.org/standards-research--technology/public-review-drafts) and access the online comment database. The draft is subject to modification until it is approved for publication by the Board of Directors and ANSI. Until this time, the current edition of the standard (as modified by any published addenda on the ASHRAE website) remains in effect. The current edition of any standard may be purchased from the ASHRAE Online Store at [www.ashrae.org/bookstore](http://www.ashrae.org/bookstore) or by calling 404-636-8400 or 1-800-727-4723 (for orders in the U.S. or Canada).

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## FOREWORD

*The envelope backstop in ECB (Chapter 12) and PRM (Appendix G) specifies the use of Appendix C rules for performing trade-off calculations. Appendix C requires the proposed design model geometry and zoning to be modified for the backstop calculation. This addendum creates an option for modelers allowing the proposed design geometry and zoning that were created for demonstrating compliance with ECB or Appendix G to also be used for the envelope backstop calculation. When this option is used, all other rules in Appendix C other than the design model geometry and zoning must still be applied for the backstop calculation.*

*This addendum modifies the performance path sections in the standard and is not subject to cost-effectiveness.*

***[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 f to 90.1-2025

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Revise section 12 as follows:

12.2 Compliance. The proposed *building* design shall comply with all of the following:

...

d. For new buildings, one of the following is met:

1. The *building envelope* complies with Section 5.5, “Prescriptive Building Envelope Compliance Path.”

2. Using Section 5.6, “Building Envelope Trade-Off Compliance Option,” the *proposed envelope performance factor* shall not exceed the *base envelope performance factor* by more than 15% in multifamily residential, hotel/motel, and dormitory *building* area types. For all other *building* area types, the limit shall be 7%. For *buildings* with both residential and nonresidential occupancies, the limit shall be based on the area-weighted average of the *gross conditioned floor area*. The *building zoning* and *geometry* shall be modeled in accordance with either:

a. Section C3.5.2, or,

b. Table 12.5.1 Proposed Building Sections 7, 8, and 9. All components of the *building envelope* in the *proposed design* shall be modeled as shown on architectural drawings or as built for *existing building envelopes*. All *opaque building envelope* components shall be modeled accounting for thermal mass effects. Exterior surfaces whose *azimuth orientation* and tilt differ by less than 45 degrees and are otherwise the same shall be permitted to be described as either a single surface or by using multipliers.

Revise Appendix G as follows:

G1.2.1 Mandatory Provisions. The proposed *building* design shall comply with all of the following:

...

- e. For new buildings, one of the following shall be met:
  - 1. The *building envelope* complies with Section 5.5, “Prescriptive Building Envelope Compliance Path.”
  - 2. Using Section 5.6, “Building Envelope Trade-Off Compliance Path,” the *proposed envelope performance factor* shall not exceed the *base envelope performance factor* by more than 15% in multifamily *residential*, hotel/motel, and dormitory *building* area types. For all other *building* area types, the limit shall be 7%. For buildings with both *residential* and *nonresidential* occupancies, the limit shall be based on the area-weighted average of the *gross conditioned floor area*. The *building zoning* and *geometry* shall be modeled in accordance with either:
    - i. Section C3.5.2, or,
    - ii. Table G3.1 Proposed Building Sections 7, 8, and 9. All components of the *building envelope* in the *proposed design* shall be modeled as shown on architectural drawings or as built for *existing building envelopes*. All *opaque building envelope* components shall be modeled accounting for thermal mass effects. Exterior surfaces whose *azimuth orientation* and tilt differ by less than 45 degrees and are otherwise the same shall be permitted to be described as either a single surface or by using multipliers.