ADDENDA

ANSI/ASHRAE/IES Addendum da to
ANSI/ASHRAE/IES Standard 90.1-2013

Energy Standard for Buildings Except Low-Rise Residential Buildings

Approved by the ASHRAE Standards Committee on June 25, 2016; by the ASHRAE Technology Council on June 29, 2016; by the IES Board of Directors on June 27, 2016; and by the American National Standards Institute on June 30, 2016.

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FOREWORD

This addendum clarifies that trade-off credit is not available for unmodified existing building components when using Appendix G as a method for compliance with the standard. It also clarifies that future building components (those not yet designed) are assumed to meet the requirements of Sections 6, 7, and 9 as required by Table G3.1. The tables "For Rating Performance Beyond Code" and "For Compliance" are informational only and are not part of the standard.

For Rating Performance Beyond Code

	Proposed	Baseline
New systems or components	As designed	As described in Section G.3
Existing systems or components	As exists	As described in Section G.3
Future systems or components (not yet designed)	Meet mandatory and prescriptive requirements of Sections 5 through 10	As described in Section G.3

For Compliance

	Proposed	Baseline
New systems or components	As designed	As described in Section G.3
Existing systems or components	As exists	As described in Section G.3
Future systems or components (not yet designed)	Meet mandatory and prescriptive requirements of Sections 5 through 10	As described in Section G.3

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

Addendum da to 90.1-2013

Revise the standard as follows (I-P and SI):

4.2 Compliance

4.2.1 Compliance Paths

4.2.1.2 Additions to Existing Buildings. Additions to existing buildings shall comply with either the provisions of Sections 5, 6, 7, 8, 9, and 10 or Section 11 or Normative Appendix G.

4.2.1.2.1 When an addition to an existing building cannot comply by itself, trade-offs will be allowed by modification to one or more of the existing components of the existing building. Modeling of the modified components of the existing building and addition shall employ the procedures of Section 11 or Normative Appendix G; the addition shall not increase the energy consumption of the existing building plus the addition beyond the energy that would be consumed by the existing building plus the addition if the addition alone did comply.

4.2.1.3 Alterations of Existing Buildings. Alterations of existing buildings shall comply with the provisions of Sections 5, 6, 7, 8, 9, and 10 or Section 11 or Normative Appendix G~~, provided, however, that nothing in this standard shall require compliance with any provision of this standard if such compliance will result in the increase of energy consumption of the building~~.

Exceptions:

1. A building that has been specifically designated as historically significant by the adopting authority or is listed in The National Register of Historic Places or has been determined to be eligible for listing by the U.S. Secretary of the Interior need not comply with these requirements.
2. ~~Where one or more components of an existing building or portions thereof are being replaced, the annual energy consumption of the comprehensive design shall not be greater than the annual energy consumption of a substantially identical design, using the same energy types, in which compliance with the applicable requirements~~

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~~of Sections 5, 6, 7, 8, 9, and 10, as provided in Section 4.2.1.2,1, is verified by a design professional by the use of any calculation methods acceptable to the authority having jurisdiction.~~

~~**G1.3 Trade-Off Limits.** When the proposed modifications apply to less than the whole building, only parameters related to the systems to be modified shall be allowed to vary. Parameters relating to unmodified existing conditions or to future building components shall be identical for determining both the baseline building performance and the proposed building performance. Future building components shall meet the prescriptive requirements of Sections 5.5, 6.5, 7.5, and either 9.5 or 9.6.~~

~~When using the Performance Rating Method as an alternative path for minimum standard compliance per Section 4.2.1.1, trade-offs and credits for energy efficiency improvement shall be limited to the scope of work identified in the building permit. For new buildings or additions, the Performance Rating Method results shall not be submitted for building permit approval to the rating authority prior to submittal for approval of the building envelope design.~~

Table G3.1 Modeling Requirements for Calculating Proposed and Baseline Building Performance

No.	Proposed Building Performance	Baseline Building Performance
2. Additions and Alterations		
	It is acceptable to predict performance using building models that exclude parts of the existing building provided that all of the following conditions are met: a. Work to be performed in excluded parts of the building shall meet the requirements of Sections 5 through 10. b. Excluded parts of the building are served by HVAC systems that are entirely separate from those serving parts of the building that are included in the building model. c. Design space temperature and HVAC system operating setpoints and schedules on either side of the boundary between included and excluded parts of the building are essentially the same. d. If a declining block or similar utility rate is being used in the analysis, and the excluded and included parts of the building are on the same utility meter, the rate shall reflect the utility block or rate for the building plus the addition.	If the proposed building model excluded parts of the existing building, the baseline building model shall exclude them as well. When modeled, unmodified existing building components shall follow the same rules as new and modified building components. ~~Same as *proposed building design*~~

POLICY STATEMENT DEFINING ASHRAE'S CONCERN FOR THE ENVIRONMENTAL IMPACT OF ITS ACTIVITIES

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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