ADDENDA

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

Energy Standard for Buildings Except Low-Rise Residential Buildings

Approved by the ASHRAE Standards Committee on January 23, 2016; by the ASHRAE Board of Directors on January 27, 2016; by the IES Board of Directors on December 31, 2015; and by the American National Standards Institute on January 28, 2016.

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. The change submittal form, instructions, and deadlines may be obtained in electronic form from the ASHRAE website (www.ashrae.org) or in paper form from the Senior Manager of Standards.

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FOREWORD

In the past, the Appendix G baseline tracked prescriptive requirements in other chapters of the standard, and it was desirable to simply reference those prescriptive sections. Now that the Appendix G baseline is fixed, and does not follow prescriptive requirements, having the baseline described directly in Appendix G is more straightforward and less likely to lead to mistakes as prescriptive values change.

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 az to 90.1-2013

Modify the standard as follows (I-P and SI Units)

5. Building Envelope

c. **Vertical Fenestration Areas.** For building area types included in Table G3.1.1-4, vertical fenestration areas for new buildings and additions shall equal that in Table G3.1.1-4 based on gross above-grade exterior wall area. Where a building has multiple building area types, each type shall use the values in the table. The vertical fenestration shall be distributed on each face of the building in the same proportion as in the proposed design. For building areas not shown in Table G3.1.1-4, vertical fenestration areas for new buildings and additions shall equal that in the proposed design or ~~the maximum allowed in Tables 5.5-1 through 5.5-8~~40% of gross above-grade wall area, whichever is smaller, and shall be distributed on each face of the building in the same proportions in the proposed design. The fenestration area for an existing building shall equal the existing fenestration area prior to the proposed work and shall be distributed on each face of the building in the same proportions as the existing building. For portions of those tables where there are no SHGC requirements, the SHGC shall be equal to that determined in accordance with Section C3.5. The VT shall be equal to that determined in accordance with Section C3.5.

e. **Skylights and Glazed Smoke Vents.** Skylight area shall be equal to that in the proposed building design or ~~the maximum allowed in Tables 5.5-1 through 5.5-8~~3%, whichever is smaller. If the skylight area of the proposed building design is greater than ~~the maximum area allowed in Tables 5.5-1 through 5.5-8~~ 3%, baseline skylight area shall be decreased by an identical percentage in all roof components in which skylights are located to reach ~~the maximum allowed in Tables 5.5-1 through 5.5-8~~3%. Skylight orientation and tilt shall be the same as in the proposed building design. Skylight U-factor and SHGC properties shall match the appropriate requirements in Tables G3.4-1 through G.3.4-8 using the value for skylights without curb and the applicable skylight percentage.

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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