

# STANDARD

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

# Energy Standard for Sites and Buildings Except 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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ISSN 1041-2336



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The Senior Manager of Standards of ASHRAE should be contacted for

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- participation in the next review of the Standard,
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## FOREWORD

*Addendum z addresses the following:*

- *An omitted exception in Section 9.2.2.2 that was identified in a recent official interpretation*
- *Removing the exception in Section 9.5.2.2 from the text and placing it into Table 9.5.2.2 so that its placement does not confuse users of the standard*

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

## Addendum z to Standard 90.1-2022

**Modify Section 9 as follows.**

### 9.2.2 Prescriptive Requirements

**9.2.2.1 Interior Lighting Power Allowance.** The *interior lighting power allowance* for a *building* or a separately metered or permitted portion of a *building* shall be determined by either Simplified Building Method described in Section 9.3, the Building Area Method described in Section 9.5.1, or the Space-by-Space Method described in Section 9.5.2.

Trade-offs of *interior lighting power allowance* among portions of the *building* for which a different calculation method has been used for compliance are not permitted.

**Exception to 9.2.2.1:** When using the compliance methods in Section 9.5.1 or 9.5.2 only, the lighting *equipment* and applications listed in Table 9.2.2.1 shall not be considered when determining the *interior lighting power allowance* developed in accordance with Section 9.5.1 or 9.5.2, nor shall the wattage for such lighting be included in the *installed interior lighting power* identified in accordance with Section 9.1.3. This exemption shall only apply when the lighting and controls are in compliance with the requirements of Table 9.2.2.1. Lighting controls noted in this table are the only required controls for this *equipment* and these applications.

**9.2.2.2 Exterior Lighting Power Allowance.** The *exterior lighting power allowance* shall be determined by

- a. Section 9.3.2, “Simplified Building Method of Calculating Exterior Lighting Power Allowance,” when using Section 9.3 to determine the *interior lighting power allowance*, or
- b. Section 9.5.3, “Exterior Lighting Power.”

**Exception to 9.2.2.2:** When using the compliance methods in Section 9.3 or 9.5.3 only, the lighting *equipment* and applications listed in Table 9.2.2.2 shall not be considered when determining the *exterior lighting power allowance* developed in accordance with Section 9.3 or 9.5.3 nor shall the wattage for such lighting be included in the *installed exterior lighting power* identified in accordance with Section 9.1.3. This exemption shall only apply where the lighting and controls are in compliance with the requirements of Table 9.2.2.2. Lighting controls noted in this table are the only required controls for this *equipment* and these applications.

[ ... ]

**9.5.2.2 Additional Interior Lighting Power.** When using the Space-by-Space Method, an increase in the *interior lighting power allowance* is allowed for specific lighting functions. Additional power shall be allowed only if the specified lighting is installed and controlled independently of the *general lighting* in accordance with Table 9.5.2.2. This additional power shall be used only for the specified *luminaires* and shall not be used for any other purpose unless otherwise indicated. Lighting control requirements referenced in Section 9.5.2.2 are the only required controls for these applications.

[ ... ]

~~**Exception to 9.5.2.2:** Other merchandise categories may be included in Retail Areas 2 through 4 above, provided that justification documenting the need for additional lighting power based on visual inspection, contrast, or other critical display is approved by the *authority having jurisdiction*.~~

[ ... ]

**Table 9.5.2.2 Additional Lighting Power**

Section	Description	Additional Lighting Power	Required Controls
[ ... ]			
9.5.2.2(b)	Retail sales <sup>a</sup>	750 W + (Retail Area 1 × 0.40 W/ft <sup>2</sup> ) + (Retail Area 2 × 0.40 W/ft <sup>2</sup> ) + (Retail Area 3 × 0.70 W/ft <sup>2</sup> ) + (Retail Area 4 × 1.00 W/ft <sup>2</sup> )	Section 9.4.1.1(j)
[ ... ]			

**Notes:**

Retail Area 1 = the *floor* area for all products not listed in Retail Areas 2, 3, or 4

Retail Area 2 = the *floor* area used for the sale of vehicles, sporting goods, and small electronics

Retail Area 3 = the *floor* area used for the sale of furniture, clothing, cosmetics, and artwork

Retail Area 4 = the *floor* area used for the sale of jewelry, crystal, and china

a. Other merchandise categories are permitted to be included in Retail Areas 2 through 4, provided that documentation of the need for additional lighting power based on visual inspection, contrast, or other critical display is approved by the *authority having jurisdiction*.

## **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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