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.

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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 strikethrough (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 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

<table>
<thead>
<tr>
<th>Section</th>
<th>Description</th>
<th>Additional Lighting Power</th>
<th>Required Controls</th>
</tr>
</thead>
<tbody>
<tr>
<td>9.5.2.2(b)</td>
<td>Retail sales</td>
<td>$750 \text{W} + (\text{Retail Area 1 } \times 0.40 \text{ W/ft}^2) + (\text{Retail Area 2 } \times 0.40 \text{ W/ft}^2) + (\text{Retail Area 3 } \times 0.70 \text{ W/ft}^2) + (\text{Retail Area 4 } \times 1.00 \text{ W/ft}^2)$</td>
<td>Section 9.4.1.1(j)</td>
</tr>
</tbody>
</table>

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
- 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.
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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