

**ANSI/ASHRAE/ICC/USGBC/IES Addendum av to  
ANSI/ASHRAE/ICC/USGBC/IES Standard 189.1-2020**

# **Standard for the Design of High-Performance Green Buildings**

**Except Low-Rise  
Residential Buildings**

*The Complete Technical Content of the International Green Construction Code®*

Approved by ASHRAE and by the American National Standards Institute on May 31, 2023; by the International Code Council and the the Illuminating Engineering Society on May 22, 2023; and by U.S. Green Building Council on May 29, 2023.

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 ([www.ashrae.org/continuous-maintenance](http://www.ashrae.org/continuous-maintenance)).

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This American National Standard (ANS) is a national voluntary consensus Standard developed under the auspices of ASHRAE. *Consensus* is defined by the American National Standards Institute (ANSI), of which ASHRAE is a member and which has approved this Standard as an ANS, as “substantial agreement reached by directly and materially affected interest categories. This signifies the concurrence of more than a simple majority, but not necessarily unanimity. Consensus requires that all views and objections be considered, and that an effort be made toward their resolution.” Compliance with this Standard is voluntary until and unless a legal jurisdiction makes compliance mandatory through legislation.

ASHRAE obtains consensus through participation of its national and international members, associated societies, and public review.

ASHRAE Standards are prepared by a Project Committee appointed specifically for the purpose of writing the Standard. The Project Committee Chair and Vice-Chair must be members of ASHRAE; while other committee members may or may not be ASHRAE members, all must be technically qualified in the subject area of the Standard. Every effort is made to balance the concerned interests on all Project Committees.

The Senior Manager of Standards of ASHRAE should be contacted for

- interpretation of the contents of this Standard,
- participation in the next review of the Standard,
- offering constructive criticism for improving the Standard, or
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## FOREWORD

*The jurisdictional option (JO) in Section 7.4.6.3.1 of Standard 189.1 requires that lighting in commercial and industrial storage stack areas be controlled by occupancy sensors and reduce lighting power by 50% twenty minutes after the last occupancy is sensed. In addition, this requirement is exempted when lighting in these areas uses high-intensity discharge (HID) sources, such as metal halide or high-pressure sodium lamps, and has a lighting power density less than 0.8 W/ft<sup>2</sup>. In contrast ASHRAE Standard 90.1-2022 requires partial OFF occupancy controls for all general lighting in warehouse storage areas (not just in the stack areas), and there is no exception for HID sources less than 0.8 W/ft<sup>2</sup>. Standard 90.1 also requires full OFF occupancy controls for storage rooms >50 ft<sup>2</sup>.*

*In general, jurisdictional options should be more stringent than the minimum efficiency standard. As such, Addendum av deletes the jurisdictional option (JO) of Section 7.4.6.3.1 for occupancy control of commercial and industrial storage lighting*

**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 av to Standard 189.1-2020

**Delete Section 7.4.6.3.1 as shown and renumber subsequent section numbers.**

**7.4.6.3 Interior Lighting Controls.** The interior lighting control requirements in this section are in addition to the control requirements in ANSI/ASHRAE/IES Standard 90.1, Section 9.4.1.1.

~~**7.4.6.3.1 [JO] Occupancy Sensor Controls in Commercial and Industrial Storage Stacks.** The lighting in commercial and industrial storage stack areas shall be controlled by an occupancy sensor with multilevel switching or dimming system that reduces lighting power a minimum of 50% within 20 minutes of all occupants leaving the stack area.~~

~~**Exception:** Storage stack areas illuminated by high-intensity discharge (HID) lighting with an LPD of 0.8 W/ft<sup>2</sup> (8.6 W/m<sup>2</sup>) or less.~~

**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.

### **Standard 189.1 and the International Green Construction Code**

Standard 189.1 serves as the complete technical content of the International Green Construction Code® (IgCC). The IgCC creates a regulatory framework for new and existing buildings, establishing minimum green requirements for buildings and complementing voluntary rating systems. For more information, visit [www.iccsafe.org](http://www.iccsafe.org).

### **About ASHRAE**

Founded in 1894, ASHRAE is a global professional society committed to serve humanity by advancing the arts and sciences of heating, ventilation, air conditioning, refrigeration, and their allied fields.

As an industry leader in research, standards writing, publishing, certification, and continuing education, ASHRAE and its members are dedicated to promoting a healthy and sustainable built environment for all, through strategic partnerships with organizations in the HVAC&R community and across related industries.

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