

**ANSI/ASHRAE/ICC/USGBC/IES Addendum al to  
ANSI/ASHRAE/ICC/USGBC/IES Standard 189.1-2017**

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

## **Except Low-Rise Residential Buildings**

*A Compliance Option of the International Green Construction Code®*

Approved by the ASHRAE Standards Committee on October 16, 2019; by the ASHRAE Board of Directors on November 1, 2019; by the International Code Council on October 10, 2019; by the U.S. Green Building Council and the Illuminating Engineering Society on November 5, 2019; and by the American National Standards Institute on November 4, 2019.

These addenda were 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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ISSN 1041-2336



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

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- b. participation in the next review of the Standard,
- c. offering constructive criticism for improving the Standard, or
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## FOREWORD

*In the past, WG10 processed addenda to change the term “acceptance testing” to “functional and performance testing (FPT)” which is a defined term in Standard 189.1. Addendum al changes legacy uses of “acceptance testing” to read “functional and performance testing.”*

**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 al to Standard 189.1-2017

#### Revise Section 7.4.2.6 as shown.

##### Exceptions to 7.4.2.6:

3. [ . . . ]
  - d. ~~Acceptance testing~~ Functional and performance testing (FPT) and commissioning shall be conducted as required by Section 10 to verify that *automatic* controls for shading devices respond to changes in illumination or radiation intensity.
- [ . . . ]
4. [ . . . ]
  - c. ~~Acceptance testing~~ FPT and commissioning shall be conducted as required by Section 10 to verify that *automatic* controls for *dynamic glazing* respond to changes in illumination or radiation intensity.

#### Revise Sections 8.3.3.2.4, 8.3.3.3, and 8.3.3.5.2 as shown.

**8.3.3.2.4 Interior Background Noise—Testing.** ~~Acceptance testing~~ Functional and performance testing (FPT) shall be performed in accordance with Section 10.3.1.1.5. Noise from construction activities, emergency vehicles, and sirens need not be considered.

[ . . . ]

**8.3.3.3 Interior Sound Transmission—Testing.** ~~Acceptance testing~~ FPT shall be performed in accordance with Section 10.3.1.1.5.

[ . . . ]

**8.3.3.5.2 Property Line Sound Levels—Testing.** Sound produced by HVAC or other mechanical systems on the premises shall not exceed the values in Table 8.3.3.5.2 at grade level and up to the highest window location on all property lines adjoining receiving properties. Where a generator is used only to provide emergency power, and all periodic operational testing is performed between the hours of 7:00 a.m. and 10:00 p.m., the sound produced by emergency generator during nighttime hours need only comply with the daytime maximum sound level values specified in Table 8.3.3.5.2. ~~Acceptance testing~~ FPT shall be performed in accordance with Section 10.3.1.1.5.1.3.

#### Revise Sections 10.3.2.1.2.1 and 10.3.2.1.3.1 as shown.

**10.3.2.1.2.1 Initial Measurement and Verification.** Use the water measurement devices and collection/storage infrastructure specified in Section 6.3.3 to collect and store water use data for each device, starting no later than after building ~~acceptance testing~~ FPT has been completed and certificate of occupancy has been issued.

[ . . . ]

**10.3.2.1.3.1 Initial Measurement and Verification.** Use the energy measurement devices and collection/storage infrastructure specified in Section 7.3.3 to collect and store energy data for each device, starting no later than after ~~acceptance testing~~ FPT has been completed and certificate of occupancy has been issued.



**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).

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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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