

# ANSI/ASHRAE/ICC/USGBC/IES Addendum bc to ANSI/ASHRAE/USGBC/IES Standard 189.1-2017

# Standard for the Design of High-Performance Green Buildings

## Except Low-Rise Residential Buildings

*The Complete Technical Content of the International Green Construction Code<sup>®</sup>*

Approved by ASHRAE and the American National Standards Institute on September 30, 2020; by the International Code Council on September 5, 2020; by U.S. Green Building Council on September 17, 2020; by the Illuminating Engineering Society on September 22, 2020.

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<sup>®</sup> website (<https://www.ashrae.org/continuous-maintenance>).

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**Cognizant TC: 2.8 Building Environmental Impacts and Sustainability**

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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
- permission to reprint portions of the Standard.

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**(This foreword is not part of this standard. It is merely informative and does not contain requirements necessary for conformance to the standard. It has not been processed according to the ANSI requirements for a standard and may contain material that has not been subject to public review or a consensus process. Unresolved objectors on informative material are not offered the right to appeal at ASHRAE or ANSI.)**

## FOREWORD

*Building energy simulation has been identified as a key method for improving the design of energy efficient buildings, and ANSI/ASHRAE Standard 209-2018 was created to help better define and facilitate this process. The standard defines reliable and consistent procedures that advance the use of timely energy modeling to quantify the impact of design decisions as they are being made.*

*The building design industry recognizes that energy simulation has untapped potential, as it has often been limited to serving as a code compliance tool or a scorecard for beyond-code programs. Standard 209 was created to improve the use of energy modeling to assist with design decisions.*

*ASHRAE Standard 209 is gaining popularity in the green building community. The standard is now part of the LEED Version 4.1 Reference Guide for the Integrative Process credit and is referenced extensively in the new 2019 Architect's Guide for Building Performance and the IBPSA-USA Project StaSIO.*

*This addendum establishes a pathway for using building energy modeling to support decision making during the process of designing a high-performance building.*

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

### Addendum bc to Standard 189.1-2017

**Modify Table 4.2, Section 7.5, and Normative References as shown.**

**Table 4.2 Requirements Determined by the Jurisdiction** (Normative in the IgCC)

Section	Section Title or Description and Directives	Jurisdictional Requirement
7.5.4	Energy Simulation Aided Design	No

[ . . . ]

**7.5.4 [JO] Energy Simulation Aided Design.** For building projects that exceed 25,000 ft<sup>2</sup> (2300 m<sup>2</sup>) of gross floor area, the building project shall comply with the requirements of ASHRAE Standard 209, Section 4.2.1.

**Exception to 7.5.4:** ASHRAE Standard 209, Section 5.2 shall not apply.

[ . . . ]

## 11. NORMATIVE REFERENCES

Section numbers indicate where the reference occurs in this document.

Reference	Title	Section
<b>ASHRAE</b>		
1791 Tullie Circle NE Atlanta, GA 30329, United States 1-404-636-8400; www.ashrae.org		
ANSI/ASHRAE Standard 209-2018	Energy Simulation Aided Design for Buildings Except Low-Rise Residential Buildings	7.5.4

**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<sup>®</sup> (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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