© ASHRAE. Per international copyright law, additional reproduction, distribution, or transmission in either print or digital form is not permitted without ASHRAE's prior written permission.

ASHRAE Addendum bb 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®

This addendum is editorial only and was not subject to public review. It was approved by ASHRAE staff 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.

The latest edition of an ASHRAE Standard may be purchased on the ASHRAE website (www.ashrae.org) or from ASHRAE Customer Service, 180 Technology Parkway, Peachtree Corners, GA 30092. E-mail: orders@ashrae.org. Fax: 678-539-2129. Telephone: 404-636-8400 (worldwide), or toll free 1-800-527-4723 (for orders in US and Canada). For reprint permission, go to www.ashrae.org/permissions.

© 2023 ASHRAE ISSN 1041-2336



© ASHRAE. Per international copyright law, additional reproduction, distribution, or transmission in either print or digital form is not permitted without ASHRAE's prior written permission.

ASHRAE Standing Standard Project Committee 189.1

Cognizant TC: 2.8 Building Environmental Impacts and Sustainability SPLS Liaison: Jay Kohler · ASHRAE Staff Liaisons: Thomas Loxley

ICC Liaison: Mike Pfeiffer · IES Liaison: Mark Lien · USGBC Liaison: Wes Sullens

Katherine Hammack*, Chair Thomas Culp* Thomas Lawrence Terry Sharp Charles Eley*, Co-Vice Chair David Delaquila Richard Lord Kent Sovocool* Josh Jacobs*, Co-Vice Chair **Greg Eades*** Mark Malkin Dennis Stanke Michael Jouaneh*, Co-Vice Chair Jim Edelson* Jonathan McHugh* Wayne Stoppelmoor* Lawrence Schoen*, Co-Vice Chair Anthony Floyd* Susan McLaughlin* Christine Subasic* Ellen Franconi Erik Miller-Klein Kyle Thompson Bryan Ahee Costas Balaras Robert Goo Brittany C. Moser* John Topmiller Webly Bowles Gregg Gress* Saber K. Nikkho Martha VanGeem* leff Bradley* Thomas Hogarth* Tien Peng Scott West* Donald Horn* Theresa Weston* Frank Burns Andrew Persily Julie Chandler Ionathan Humble Rock Ridolfi **Daniel Whittet** loe Winters* Glen Clapper Greg Johnson Steven Rosenstock* Ernest Conrad* Jack Karlin Jian Zhang* Aniruddh Roy Dru Crawley Gerald Kettler **Brent Rutherford** John Cross* Andrew Klein Michael Schmeida

ASHRAE STANDARDS COMMITTEE 2022–2023

Matthew Setzekorn

Christopher J. Seeton

Christian R. Taber

Paolo M. Tronville

William F. Walter

Steven C. Sill, BOD ExO

Sarah E. Maston, CO

Susanna S. Hanson, Chair Phillip A. Johnson Lawrence C. Markel Jonathan Humble, Vice-Chair Srinivas Katipamula Patrick C. Marks William P. Bahnfleth Gerald J. Kettler Margaret M. Mathison Thomas E. Cappellin lay A. Kohler Kathleen Owen Douglas D. Fick Cesar L. Lim Gwelen Paliaga Patricia Graef Paul A. Lindahl, Jr. Karl L. Peterman Jaap Hogeling James D. Lutz Justin M. Prosser Jennifer A. Isenbeck Julie Majurinv David Robin

Vladimir Kochkin

Michael Cudahy*

Connor Barbaree, Senior Manager of Standards

DISCLAIMER

ASHRAE uses its best efforts to promulgate Standards and Guidelines for the benefit of the public in light of available information and accepted industry practices. However, ASHRAE does not guarantee, certify, or assure the safety or performance of any products, components, or systems tested, installed, or operated in accordance with ASHRAE's Standards or Guidelines or that any tests conducted under its Standards or Guidelines will be nonhazardous or free from risk.

ASHRAE INDUSTRIAL ADVERTISING POLICY ON STANDARDS

ASHRAE Standards and Guidelines are established to assist industry and the public by offering a uniform method of testing for rating purposes, by suggesting safe practices in designing and installing equipment, by providing proper definitions of this equipment, and by providing other information that may serve to guide the industry. The creation of ASHRAE Standards and Guidelines is determined by the need for them, and conformance to them is completely voluntary.

In referring to this Standard or Guideline and in marking of equipment and in advertising, no claim shall be made, either stated or implied, that the product has been approved by ASHRAE.

^{*} Denotes members of voting status when the document was approved for publication

(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

Editorial Addendum bb strikes unneeded subsection heading terminology and replaces it with the word "Reserved." Sections 5, 6, 8, 9, and 10 of Standard 189.1 all were made mandatory by previous addenda and no longer need to be individually identified as mandatory, prescriptive, or performance. The current x.2 subsections titled "Compliance" are therefore not needed.

Retaining x.2 subsection numbering and identifying them as "Reserved" eliminates the need to renumber subsequent subsections of the standard. It also provides for future flexibility should compliance, performance, and prescriptive subsections be reinstated, or should some other need present itself.

Because this addendum is editorial, it has no fiscal impacts and has no corresponding examples of applicable, parallel provisions being used elsewhere.

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

Addendum bb to Standard 189.1-2020

Modify Sections 5.2, 6.2, 8.2, 9.2, and 10.2 as shown.

- 5.2 Reserved Compliance. All of the provisions of Section 5 are mandatory provisions.
- 6.2 Reserved Compliance. All provisions of Section 6 are mandatory provisions.
- 8.2 Reserved Compliance: All provisions of Section 8 are mandatory provisions.
- 9.2 Reserved Compliance. All provisions of Section 9 are mandatory provisions.
- 10.2 Reserved Compliance. All of the provisions of Section 10 are mandatory provisions.

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.

ASHRAE · 180 Technology Parkway NW · Peachtree Corners, GA 30092 · www.ashrae.org

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.

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.

To stay current with this and other ASHRAE Standards and Guidelines, visit www.ashrae.org/standards, and connect on LinkedIn, Facebook, Twitter, and YouTube.

Visit the ASHRAE Bookstore

ASHRAE offers its Standards and Guidelines in print, as immediately downloadable PDFs, and via ASHRAE Digital Collections, which provides online access with automatic updates as well as historical versions of publications. Selected Standards and Guidelines are also offered in redline versions that indicate the changes made between the active Standard or Guideline and its previous edition. For more information, visit the Standards and Guidelines section of the ASHRAE Bookstore at www.ashrae.org/bookstore.

IMPORTANT NOTICES ABOUT THIS STANDARD

To ensure that you have all of the approved addenda, errata, and interpretations for this Standard, visit www.ashrae.org/standards to download them free of charge.

Addenda, errata, and interpretations for ASHRAE Standards and Guidelines are no longer distributed with copies of the Standards and Guidelines. ASHRAE provides these addenda, errata, and interpretations only in electronic form to promote more sustainable use of resources.