

**ANSI/ASHRAE/ICC/USGBC/IES Addendum as 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 the American National Standards Institute on April 28, 2023; by the International Code Council on March 23, 2023; by U.S. Green Building Council on March 29, 2023; and by the Illuminating Engineering Society on April 5, 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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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

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## FOREWORD

*Addendum as aligns Standard 189.1 with ANSI/APSP/ICC 14-2019, American National Standard for Portable Electric Spa Energy Efficiency, which is required in the IECC and in at least nine U.S. states. A new definition of “pool” is added, slightly modified from how it appears in ANSI/ASHRAE/IES Standard 90.1. Addendum as also italicizes instances where the word “pool” carries the newly defined meaning, as distinct from instances where it carries the normal dictionary meaning.*

**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 as to Standard 189.1-2020

#### Revise Section 3 as shown.

[ . . . ]

**improved landscape:** any disturbed area of the *site* where new *plant* and/or grass materials are to be used, including green *roofs*, plantings for stormwater controls, planting boxes, and similar vegetative use. *Improved landscape* shall not include *hardscape* areas such as sidewalks, driveways, other paved areas, and ~~swimming pools~~ pools or decking.

[ . . . ]

**pool:** any structure, basin, or tank containing an artificial body of water for swimming, diving, therapeutic use, or recreational bathing, which is not drained, cleaned or refilled for each use.

[ . . . ]

**water, alternate on-site sources of:** *alternate on-site sources of water* include, but are not limited to,

[ . . . ]

d. ~~swimming pool~~ pool filter backwash water,

[ . . . ]

#### Revise Section 7.4.4.3 as shown.

**7.4.4.3 [JO] Insulation for Spa-Pools.** ~~Pools~~Pools designed to be heated to more than 90°F (32°C) shall have side and bottom surfaces insulated on the exterior with an a minimum insulation value of not less than R-12 (R-2.1).

**Exception:** Portable electric spas complying with ANSI/APSP/ICC-14.

#### Revise Section 5 as shown.

##### Exceptions to 5.3.6.1:

[ . . . ]

11. Lighting for ~~swimming pools~~ pools and water features.

[ . . . ]

#### Revise Section 6 as shown.

**6.3.4 [JO] Special Water Features.** Water use shall comply with the following:

[ . . . ]

b. ~~Pools~~ pools and spas

1. Recover filter backwash water for reuse on landscaping or other applications, or treat and reuse backwash water within the system.
2. For filters with removable cartridges, only reusable cartridges and systems shall be used. For filters with backwash capability, use only ~~pool~~ pool filter equipment that includes a pressure drop gage to

determine when the filter needs to be backwashed and a sight glass enabling the operator to determine when to stop the backwash cycle.

3. ~~Pool~~ Pool splash troughs, if provided, shall drain back into the ~~pool~~ pool system.

[ ... ]

**Modify Section 8 as shown.**

**Table 8.3.3.3 Minimum Sound and Impact Sound Ratings**

Room Type	cSTC <sup>c,d</sup>	IIC
<i>Dwelling unit</i> (apartment, condominium, duplex, hotel guest room, etc.)	55	55
Retail or restaurant	50	45
Exercise, gym or <del>pool</del> <u>pool</u> <sup>b</sup>	55	50 <sup>a</sup>
Mechanical, electrical, and elevator machinery rooms <sup>b</sup>	60	N/A <sup>e</sup>
Conference and teleconference rooms	50	50
Enclosed offices	45	45
Open offices	N/A <sup>e</sup>	45

- The IIC value listed addresses footfall noise but not exercise-related vibration-borne sound. Exercise-related vibration-borne sound shall comply with the requirements of Section 8.3.3.2.
- Minimum cSTC and IIC values are not required between adjacent rooms of the same room type.
- For operable partitions and *walls* containing doors, windows, or both, the minimum cSTC ratings shall be 5 less than the values listed in Table 8.3.3.3.
- The minimum cSTC values shall be 5 less than the cSTC values in Table 8.3.3.3 for *walls* between *spaces* and corridors and between *spaces* and open offices. The minimum cSTC values shall be 15 less than the cSTC values specified in Table 8.3.3.3 for *walls* having doors that open to corridors or open offices.
- Not applicable.

[ ... ]

**8.3.6.2 Humid Spaces.** A separate analysis shall be performed in *spaces* where process or occupancy requirements dictate dew-point conditions that are unique with respect to other *spaces* in the building, such as kitchens, water therapy rooms, ~~swimming pool~~ pool enclosures, ice rink enclosures, shower rooms, locker rooms, operating rooms in health care facilities, and exhibit areas in museums.

**Modify Table B-8 as shown (I-P and SI).**

**Table B-8 Performance Requirements for Service Water Heating Equipment**  
(Supersedes Table 7.8 in ANSI/ASHRAE/IES Standard 90.1)

Equipment Type	Size Category (Input)	Rated Storage Volume and Input Rating (if applicable)	Draw Pattern	Performance Required <sup>a</sup>	Test Procedure <sup>b</sup>
<del>Pool</del> <u>Pool</u> heaters, gas	[ ... ]	[ ... ]	[ ... ]	[ ... ]	[ ... ]
<del>Pool</del> <u>Pool</u> heaters, oil	[ ... ]	[ ... ]	[ ... ]	[ ... ]	[ ... ]
Heat-pump <del>pool</del> <u>pool</u> heaters	[ ... ]	[ ... ]	[ ... ]	[ ... ]	[ ... ]

[ ... ]

[ ... ]

**Revised Section 11 as shown.**

Reference	Title	Section
[...]		
<b><u>Pool &amp; Hot Tub Alliance (formerly The Association of Pool &amp; Spa Professionals)</u></b> <b><u>2111 Eisenhower Ave., Suite 500</u></b> <b><u>Alexandria, VA 22314-4679</u></b> <b><u>(703) 838-0083</u></b> <b><u>www.phta.org</u></b>		
<u>APSP/ICC-14-201</u>	<u>Portable Electric Spa Energy Efficiency</u>	<u>7.4.4.3</u>
[...]		

**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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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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