

Public Review Draft

Proposed Addendum as to Standard 189.1-2020

Standard for the Design of High- Performance Green Buildings Except Low-Rise Residential Buildings

First Public Review (January, 2023)
(Draft Shows Proposed Changes to Current Standard)

This draft has been recommended for public review by the responsible project committee. To submit a comment on this proposed standard, go to the ASHRAE website at www.ashrae.org/standards-research--technology/public-review-drafts and access the online comment database. The draft is subject to modification until it is approved for publication by the Board of Directors and ANSI. Until this time, the current edition of the standard (as modified by any published addenda on the ASHRAE website) remains in effect. The current edition of any standard may be purchased from the ASHRAE Online Store at www.ashrae.org/bookstore or by calling 404-636-8400 or 1-800-727-4723 (for orders in the U.S. or Canada).

This standard is under continuous maintenance. To propose a change to the current standard, use the change submittal form available on the ASHRAE website, www.ashrae.org.

The appearance of any technical data or editorial material in this public review document does not constitute endorsement, warranty, or guaranty by ASHRAE of any product, service, process, procedure, or design, and ASHRAE expressly disclaims such.

© June 18, 2020 ASHRAE. This draft is covered under ASHRAE copyright. Permission to reproduce or redistribute all or any part of this document must be obtained from the ASHRAE Manager of Standards, 180 Technology Pkwy NW, Peachtree Corners, GA 30092. Phone: 404-636-8400, Ext. 1125. Fax: 404-321-5478. E-mail: standards.section@ashrae.org.

ASHRAE, 180 Technology Pkwy NW, Peachtree Corners, GA 30092



© December 29, 2022 ASHRAE

This draft is covered under ASHRAE copyright. The appearance of any technical data or editorial material in this publication document does not constitute endorsement, warranty, or guaranty by ASHRAE of any product, service, process, procedure, design or the like and ASHRAE expressly disclaims such. Permission to republish or redistribute must be obtained from the MOS.

(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

This updates this section to the appropriate energy standard to address Portable Electric Spas in 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 states of the U.S. The definition of pool is added, which is slightly modified from ASHRAE/IES 90.1. We have also added where in the standard the term “pool” becomes a defined term. Pool is also used in different contexts in the standard and is not proposed to be italicized as a defined term in those cases.

[Note to Reviewers: This addendum makes proposed changes to the standard. These changes are indicated in the text by underlining (for additions) and ~~strikethrough~~ (for deletions) except where the reviewer instructions specifically describe some other means of showing the changes. Only these changes to the standard are open for review and comment at this time. Additional material is provided for context only and is not open for comment except as it relates to the proposed changes.]

Addendum as to 189.1-2020

Revise definitions for Chapter 3 as follows:

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.

Revise Section 7.4.4.3 as follows:

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~~ an insulation value of not less than R-12 (R-2.1).

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

Revise the following sections of the standard to incorporate the new definition of pool:

Chapter 3:

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.

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,

...
Exceptions to 5.3.6.1: ...

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

...
6.3.4 [JO] Special Water Features. ...

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.

...
Table 8.3.3.3 Minimum Sound and Impact Sound Ratings

...
Exercise, gym or ~~pool~~ pool ...

...
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.

...
Table B-8 Performance Requirements for Service Water Heating Equipment

...
~~Pool~~ pool heaters, gas ...
~~Pool~~ pool heaters, oil ...
Heat-pump ~~pool~~ pool heaters ...

...
Revised Chapter 11 Normative References as follows:

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