

**ANSI/ASHRAE/ICC/USGBC/IES Addenda 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 November 30, 2020; by the International Code Council on October 22, 2020; by U.S. Green Building Council on November 5, 2020; and by the Illuminating Engineering Society on October 29, 2020.

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Cognizant TC: 2.8 Building Environmental Impacts and Sustainability

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

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- offering constructive criticism for improving the Standard, or
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FOREWORD

Addendum ax adds a reference to Standard 62.1, Section 7, "Construction and System Start-Up," which includes several requirements that support good indoor air quality. To avoid duplication and confusion, it also deletes some requirements from Standard 189.1, Section 10, that are covered by the referenced section in Standard 62.1.

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 ax to Standard 189.1-2020

Modify Section 10 as shown. Section 10.3.1.6 is deleted in its entirety; Section 10.3.1.5(a) is deleted and replaced; Section 10.3.1.5(b) becomes a new Section 10.3.1.6.

10.4 Construction

[. . .]

10.4.1 IAQ Construction Management and System Startup. ~~Ventilation systems shall be constructed and started in compliance with ANSI/ASHRAE Standard 62.1, Section 7. Develop and implement an~~ An IAQ construction management plan shall be developed and implemented that includes to include the following:

- ~~a. Air conveyance materials shall be stored and covered so that they remain clean. All filters and controls shall be in place and operational when HVAC systems are operated during building flush out or baseline IAQ monitoring. Except for system startup, testing, balancing, and commissioning, permanent HVAC systems shall not be used during construction.~~
- ~~b. Materials stored on site, or materials installed that are absorptive, shall be protected from moisture damage.~~
- ~~c. Building construction materials that show visual evidence of biological growth due to the presence of moisture shall not be installed on the building project.~~
- a. Requirements of ANSI/ASHRAE Standard 62.1, Section 7
- b. Use of construction filters in all operating HVAC systems, including installation, inspection, and replacement
- c. Sealing of HVAC system supply and return air openings when systems are not in use and during activities that produce high dust
- d. Managing migration of airborne *contaminants* associated with construction within the building by boundary sealing, pressure differentials, or other methods
- e. Managing building pressures to control entry of outdoor humidity after the building enclosure is complete
- f. Prohibition inside the building and within 25 ft (8 m) of the *building entrance* of smoking of any kind, including use of electronic smoking devices
- g. Scheduling of construction and interior build-out such that absorptive materials (including carpet, textiles, and porous ceiling tiles) are protected or installed later than materials that emit volatile compounds (including adhesives, mastics, and coatings)
- h. Exhaust systems to remove product emissions from construction and staging areas
- i. Sealing of ducts, air terminals, and airstream surfaces to protect them from moisture, particulates, and other *contaminants*
- j. Regular cleaning during construction to remove *contaminants* and accumulated moisture
- k. Performance and reporting responsibilities of subcontractors and suppliers
- l. *Verification* and record keeping of the above activities

**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.

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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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