ANSI/ASHRAE/ICC/USGBC/IES Addendum h 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 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 (https://www.ashrae.org/continuous-maintenance).

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FOREWORD

Addendum h adds a new provision to include leak detection devices in the plumbing system of buildings. These devices include sensor inputs such as transducers to continuously monitor the water distribution system dynamics and identify and report abnormal system states, including leaks. These devices are installed on a main water line and can detect overfill situations, valves left on, drip leaks, and freezing water in lines using transducers that measure events using pressure waves. The benefit is that leaks can be prevented or mitigated, saving water and minimizing building damage, effectively increasing the resiliency of the building.

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 h to Standard 189.1-2020

Add new Section 6.3.5.2 as shown. Renumber subsequent sections.

6.3.5.2 Leak Detection. An electronic device capable of using flow, acoustic, or pressure data to detect a leak or unusual flow condition and communicating an alert shall be installed in the building project water supply and, where submeters are required per Table 6.3.5.1B, in distribution systems.
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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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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