

Public Review Draft

Proposed Addendum bf to Standard 189.1-2017

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

First Public Review (March 2020)
(Draft Shows Proposed Changes to Current Standard)

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Foreword

In ASHRAE 189.1-2014, Preoccupancy Ventilation Control was section number 8.3.1.7, and it contained a reference to its own section number within the text. Three intermediate sections were then added in 2017 and Preoccupancy Ventilation Control was renumbered to 8.3.1.10, however, the text was not revised accordingly. This proposal removes the inaccurate reference to Section 8.3.1.7 and provides additional clarification that the provisions of Section 8.3.1.10 supersede any conflicting ASHRAE 90.1 requirements (such as preoccupancy start time for optimal start controls). This clarification was deemed necessary based on 2019 additions to ASHRAE 90.1, which allow for reductions in ventilation based on sensed changes in occupancy and other environmental conditions, but are not appropriate during preoccupancy ventilation. The stringency and original intent of Section 8.3.1.10 has not been changed.

[Note to Reviewers: This addendum makes proposed changes to the current 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 current 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 bf to 189.1-2017

Revise Section 8.3.1.10 as follows:

8.3.1.10 Preoccupancy Ventilation Control. Ventilation systems ~~servicing zones that are not continuously occupied~~ shall have controls designed to ~~automatically provide outdoor air~~ to the zones, prior to their scheduled occupancy, where the zones served by the ventilation system have been unoccupied for 24 hours or longer. For zones without scheduled occupancy, the preoccupancy ventilation controls shall provide outdoor air to the zone within 24 hours of the last time outdoor air was provided to the zone. This preoccupancy ventilation shall be provided continuously at the ~~system zone~~ design *minimum outdoor airflow* for a period of one hour prior to the expected occupancy, or at an *outdoor air* rate and for a time period that provides the same number of air changes as the design *minimum outdoor airflow* for one hour. ~~If the preoccupancy ventilation period requires ventilation earlier than as required by ANSI/ASHRAE/IES Standard 90.1, Section 6.4.3, the preoccupancy ventilation start time of Section 8.3.1.7 shall take precedence.~~ The requirements for preoccupancy ventilation control duration and outdoor air rate supersede any conflicting requirement in ANSI/ASHRAE/IES Standard 90.1. The required combination of ventilation duration and airflow to the zone to accomplish preoccupancy ventilation shall not be modified in response to: sensed occupancy, demand control ventilation (DCV) controls, or preoccupancy building warm-up, cooldown or setback.

Exceptions to 8.3.1.10:

1. Zones that are continuously occupied
2. Hotel and motel guest rooms subject to automatic control of HVAC and lighting as required in Sections 7 and 8.