

# Public Review Draft

Proposed Addendum br to Standard 189.1-2017

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

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

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## Foreword

This addendum removes the JO (jurisdictional option) designation from Section 8.3.1.3b, which requires ozone removal when outdoor air concentrations are expected to be elevated. Given the serious health impacts of elevated ozone concentrations and the ease of removing ozone from air, this requirement is more appropriate as a core requirement of the standard than as a jurisdictional option. Note that addendum 189.1bg (not yet published) makes other changes to this section, which are shown at the end of this document for reference only.

*[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 br to 189.1-2017

*Revise Informative Table 4.2 as follows:*

SECTION	SECTION TITLE OR DESCRIPTION AND DIRECTIVES	Jurisdictional Requirement
8.3.1.3.(b)	Ozone	—No

*Revise Section 8 as follows:*

### 8.3.1.3 Filtration and Air Cleaner Requirements

**b. ~~[JO]~~ Ozone. Outdoor air ozone removal.** Air cleaning devices for ozone shall be provided for buildings located in an area that is designated “nonattainment” in an area that exceeds the National Ambient Air Quality Standards (NAAQS) for ozone, as determined by the *authority having jurisdiction (AHJ)*. Such air cleaning devices shall have an ozone removal efficiency of no less than 40% where installed, operated, and maintained in accordance with the manufacturer’s recommendations. Such air cleaning devices shall be operated whenever the outdoor ozone level is expected to exceed the NAAQS. This requirement supersedes the requirements of ASHRAE Standard 62.1, Section

6.2.1.3. This requirement applies to all buildings, including health care facilities covered by ASHRAE/ASHE Standard 170.

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### **For Reference Only**

*[Note to Reviewers: Addendum bg, which is still in the process of public review and comment resolution, proposes revisions to this same section as well as changing the title as noted above. That addendum retains the [JO] designation, which is proposed for removal by the current addendum. If the revisions to section 8.3.1.3b proposed by addendum bg and this addendum are both approved, Section 8.3.1.3b will appear as follows:]*

**b. Outdoor air ozone removal.** Air cleaning devices for ozone shall be provided for buildings located in an area that is designated “non-attainment” for ozone by the US EPA, or located in an area that does not comply with applicable ambient air quality standards for ozone as determined by the *authority having jurisdiction (AHJ)*. Such air cleaning devices shall have an ozone removal efficiency of not less than 40% where installed, operated, and maintained in accordance with the manufacturer’s recommendations, and shall be installed in all *outdoor air* intakes. This requirement supersedes the requirements of ASHRAE Standard 62.1, Section 6.1.4.3. This requirement applies to all buildings, including health care facilities covered by ASHRAE/ASHE Standard 170.

#### **Exceptions to 8.3.1.3b:**

1. The system design *outdoor air* intake flow is 1.5 air change per hour or less.
2. Controls are provided that sense outdoor ozone level and reduce intake airflow to 1.5 air change per hour or less while complying with the outdoor airflow requirements of Section 8.3.1.1.
3. *Outdoor air* is brought into the building and heated by direct-fired *makeup air* units.