

**ERRATA SHEET FOR  
ANSI/ASHRAE/ICC/USGBC/IES STANDARD 189.1-2020  
Standard for the Design of High-Performance Green Buildings  
Except Low-Rise Residential Buildings**

**January 7, 2021**

The corrections listed in this errata sheet apply to all printings of ANSI/ASHRAE/ICC/USGBC/IES Standard 189.1-2020. The first printing of ANSI/ASHRAE/ICC/USGBC/IES Standard 189.1-2020 is identified as “Product code: 86616 12/20” on the outside back cover.

**NOTICE:** ASHRAE now has a list server for Standing Standard Project Committee 189.1 (SSPC 189.1). Interested parties can now subscribe and unsubscribe to the list server and be automatically notified via e-mail when activities and information related to the Standard is available. To sign up for the list server please visit **Project Committee List Servers for Standard** on the Technology / Standards section of the ASHRAE website at <https://www.ashrae.org/technical-resources/standards-and-guidelines/project-committee-list-servers>.

**Page(s)   Erratum**

**43      7.4.3.2 [JO] Ventilation Controls for Densely Occupied Spaces.** Revise Section 7.4.3.2 as shown below. Changes are highlighted in yellow.

(Note: Additions are shown in underline and deletions are shown in ~~strikethrough~~.)

**7.4.3.2 [JO] Ventilation Controls for Densely Occupied Spaces.** The requirements in this section supersede those in ANSI/ASHRAE/IES Standard 90.1, Section 6.4.3.8. *Demand control ventilation (DCV)* shall be provided for *densely occupied spaces* served by systems with one or more of the following:

- a. An air-side economizer
- b. *Automatic* modulating control of the *outdoor air* dampers
- c. A design outdoor airflow greater than 1000 cfm (500 L/s)

**Exceptions to 7.4.3.2:**

- 1. Systems with exhaust air energy recovery complying with Section 7.4.3.7.
- 2. Systems with a design outdoor airflow less than 750 cfm (375 L/s).
- 3. *Spaces* where more than 75% of the *space* design outdoor airflow is used as *makeup air* or *transfer air* to provide *makeup air* for other *spaces*.
- 4. *Spaces* with one of the following occupancy categories as listed in ANSI/ASHRAE Standard 62.1: cells in correctional facilities; daycare sickrooms; science laboratories; barbershops; beauty and nail salons; and bowling alleys (seating).

The *DCV* system shall be designed to comply with ASHRAE Standard 62.1, Section 6.2.6.1. Occupancy assumptions shall be shown in the design documents for spaces provided with *DCV*. All CO<sub>2</sub> sensors used as part of a *DCV* system or any other system that dynamically controls *outdoor air* shall meet the following requirements:

- a. *Spaces* with CO<sub>2</sub> sensors or air-sampling probes leading to a central CO<sub>2</sub> monitoring station shall be provided with at least one sensor or probe for each 10,000 ft<sup>2</sup> (1000 m<sup>2</sup>) of floor *space*. Sensors or probes shall be installed between 3 and 6 ft (1 and 2 m) above the floor.

~~b. CO<sub>2</sub> sensors shall have a rated accuracy of ±50 ppm at 1000 ppm.~~

b.e. *Outdoor air* CO<sub>2</sub> concentrations shall be determined by one of the following:

- 1. *Outdoor air* CO<sub>2</sub> concentrations shall be dynamically measured using one or multiple CO<sub>2</sub> sensors.

The CO<sub>2</sub> sensor locations shall be identified on the *construction documents*.

2. When documented statistical data on the local ambient CO<sub>2</sub> concentrations are available, a fixed value typical of the location where the building is located shall be allowed in lieu of an outdoor sensor.

~~c.d.~~ Occupant CO<sub>2</sub> generation rate assumptions shall be shown in the design documents.