



# ADDENDA

**ANSI/ASHRAE Addendum g to  
ANSI/ASHRAE Standard 62.2-2016**

# Ventilation and Acceptable Indoor Air Quality in Residential Buildings

Approved by the ASHRAE Standards Committee on January 20, 2018; by the Technology Council on January 24, 2018; and by the American National Standards Institute on January 25, 2018.

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. The change submittal form, instructions, and deadlines may be obtained in electronic form from the ASHRAE website ([www.ashrae.org](http://www.ashrae.org)) or in paper form from the Senior Manager of Standards.

The latest edition of an ASHRAE Standard may be purchased on the ASHRAE website ([www.ashrae.org](http://www.ashrae.org)) or from ASHRAE Customer Service, 1791 Tullie Circle, NE, Atlanta, GA 30329-2305. E-mail: [orders@ashrae.org](mailto:orders@ashrae.org). Fax: 678-539-2129. Telephone: 404-636-8400 (worldwide), or toll free 1-800-527-4723 (for orders in US and Canada). For reprint permission, go to [www.ashrae.org/permissions](http://www.ashrae.org/permissions).

© 2018 ASHRAE

ISSN 1041-2336



**ASHRAE Standing Standard Project Committee 62.2**  
**Cognizant TC: 4.3, Ventilation Requirements and Infiltration**  
**SPLS Liaison: Karl L. Peterman**

Paul Francisco\*, *Chair*  
Iain S. Walker\*, *Vice-Chair*  
Paul H. Raymer, *Secretary\**  
David A. Baylon\*  
Terry M. Brennan\*  
Gary Craw  
Roy R. Crawford\*  
David C. Delaquila\*  
S. Craig Drumheller\*  
Philip W. Fairey\*  
Marian Goebes\*

Henry T. Greist  
Sanjeev K. Hingorani  
Mark C. Jackson\*  
David E. Jacobs\*  
Richard J. Karg\*  
Joseph W. Lstiburek\*  
Michael R. Lubliner\*  
Darren B. Meyers\*  
James C. Moore, III\*  
Wayne E. Morris  
Amy B. Musser\*

Marc D.-M. Neufcourt\*  
John P. Proctor\*  
Armin Rudd  
Max H. Sherman  
Sarany Singer  
Don T. Stevens\*  
Brian Toll  
Eric D. Werling\*  
Ted A. Williams\*  
Aykut Yilmaz

\* Denotes members of voting status when the document was approved for publication

---

**ASHRAE STANDARDS COMMITTEE 2017–2018**

Steven J. Emmerich, *Chair*  
Donald M. Brundage, *Vice-Chair*  
Niels Bidstrup  
Michael D. Corbat  
Drury B. Crawley  
Julie M. Ferguson  
Michael W. Gallagher  
Walter T. Grondzik  
Vinod P. Gupta  
Susanna S. Hanson

Roger L. Hedrick  
Rick M. Heiden  
Jonathan Humble  
Srinivas Katipamula  
Kwang Woo Kim  
Larry Kouma  
Arsen K. Melikov  
R. Lee Millies, Jr.  
Karl L. Peterman  
Erick A. Phelps

David Robin  
Peter Simmonds  
Dennis A. Stanke  
Wayne H. Stoppelmoor, Jr.  
Richard T. Swierczyna  
Jack H. Zarour  
Lawrence C. Markel, *BOD ExO*  
M. Ginger Scoggins, *CO*

Steven C. Ferguson, *Senior Manager of Standards*

---

**SPECIAL NOTE**

This American National Standard (ANS) is a national voluntary consensus Standard developed under the auspices of ASHRAE. *Consensus* is defined by the American National Standards Institute (ANSI), of which ASHRAE is a member and which has approved this Standard as an ANS, as "substantial agreement reached by directly and materially affected interest categories. This signifies the concurrence of more than a simple majority, but not necessarily unanimity. Consensus requires that all views and objections be considered, and that an effort be made toward their resolution." Compliance with this Standard is voluntary until and unless a legal jurisdiction makes compliance mandatory through legislation.

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

ASHRAE Standards are prepared by a Project Committee appointed specifically for the purpose of writing the Standard. The Project Committee Chair and Vice-Chair must be members of ASHRAE; while other committee members may or may not be ASHRAE members, all must be technically qualified in the subject area of the Standard. Every effort is made to balance the concerned interests on all Project Committees.

The Senior Manager of Standards of ASHRAE should be contacted for

- a. interpretation of the contents of this Standard,
- b. participation in the next review of the Standard,
- c. offering constructive criticism for improving the Standard, or
- d. permission to reprint portions of the Standard.

**DISCLAIMER**

ASHRAE uses its best efforts to promulgate Standards and Guidelines for the benefit of the public in light of available information and accepted industry practices. However, ASHRAE does not guarantee, certify, or assure the safety or performance of any products, components, or systems tested, installed, or operated in accordance with ASHRAE's Standards or Guidelines or that any tests conducted under its Standards or Guidelines will be nonhazardous or free from risk.

**ASHRAE INDUSTRIAL ADVERTISING POLICY ON STANDARDS**

ASHRAE Standards and Guidelines are established to assist industry and the public by offering a uniform method of testing for rating purposes, by suggesting safe practices in designing and installing equipment, by providing proper definitions of this equipment, and by providing other information that may serve to guide the industry. The creation of ASHRAE Standards and Guidelines is determined by the need for them, and conformance to them is completely voluntary.

In referring to this Standard or Guideline and in marking of equipment and in advertising, no claim shall be made, either stated or implied, that the product has been approved by ASHRAE.

(This foreword is not part of this standard. It is merely informative and does not contain requirements necessary for conformance to the standard. It has not been processed according to the ANSI requirements for a standard and may contain material that has not been subject to public review or a consensus process. Unresolved objections on informative material are not offered the right to appeal at ASHRAE or ANSI.)

## FOREWORD

*Addendum g establishes firm requirements for compartmentalization airtightness for new attached residential dwelling units. Previous language suggested this metric without requiring it. New text in this addendum refers to a new Section A6 in Normative Appendix A. That section is added by proposed Addendum h and would provide a prescriptive path for air sealing as an alternative to the requirements implemented through this addendum for attached dwelling units in which 15% to 80% of the envelope wall area is being altered.*

**Note:** In this addendum, changes to the current standard are indicated in the text by underlining (for additions) and ~~strikethrough~~ (for deletions) unless the instructions specifically mention some other means of indicating the changes.

### Addendum g to Standard 62.2-2016

*Add a new definition to Section 3. The remainder of Section 3 is unchanged.*

**envelope area, dwelling unit:** the sum of the areas of the ceilings, floors, and walls that separate the conditioned space of a dwelling unit from the exterior and from adjacent interior spaces.

*Revise Section 6.1 as shown below. Note that Section A6, which is referenced in this new text, will be added to Appendix A by proposed Addendum h.*

**6.1 Adjacent Spaces and Transfer Air.** Measures shall be taken to minimize air movement across envelope components to dwelling units from adjacent spaces such as garages, unconditioned crawlspaces, unconditioned attics, and other dwelling units. Pressure boundary wall, ceiling, and floor penetrations shall be sealed, as shall any vertical chases adjacent to dwelling units. Doors between dwelling units and common hallways shall be gasketed or made substantially airtight.

Supply and balanced ventilation systems shall be designed and constructed to provide ventilation air directly from the outdoors.

**6.1.1 Compliance for Attached Dwelling Units.** Attached dwelling units, except existing units as described in Normative Appendix A, Section A6, shall ~~One method of demonstrating compliance with Section 6.1 shall be to by~~ verify a leakage rate below a maximum of less than or equal to 0.3 cfm per ft<sup>2</sup> (150 L/s per 100 m<sup>2</sup>) of the dwelling-unit envelope area (i.e., the sum of the area of the walls between dwelling units, exterior walls, ceiling, and floor) at a test pressure of 50 Pa by a blower door test conducted with either ANSI/ASTM E779<sup>2</sup> or ANSI/ASTM E1827<sup>6</sup>, by means of a blower door test at a test pressure of 50 Pa. Testing shall be conducted in accordance with ANSI/RESNET/ICC Standard 380<sup>4</sup>. For horizontally attached single-family dwelling units that are being evaluated for the infiltration credit in Section 4.1.2, the procedure specified in Section 4.1.2 shall be an alternative to the procedure of this section. The test shall be conducted with the dwelling unit as if it were exposed to outdoor air on all sides, top, and bottom by opening doors and windows of adjacent dwelling units.



## **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.

### **About ASHRAE**

ASHRAE, founded in 1894, is a global society advancing human well-being through sustainable technology for the built environment. The Society and its members focus on building systems, energy efficiency, indoor air quality, refrigeration, and sustainability. Through research, Standards writing, publishing, certification and continuing education, ASHRAE shapes tomorrow's built environment today.

For more information or to become a member of ASHRAE, visit [www.ashrae.org](http://www.ashrae.org).

To stay current with this and other ASHRAE Standards and Guidelines, visit [www.ashrae.org/standards](http://www.ashrae.org/standards).

### **Visit the ASHRAE Bookstore**

ASHRAE offers its Standards and Guidelines in print, as immediately downloadable PDFs, on CD-ROM, and via ASHRAE Digital Collections, which provides online access with automatic updates as well as historical versions of publications. Selected Standards and Guidelines are also offered in redline versions that indicate the changes made between the active Standard or Guideline and its previous version. For more information, visit the Standards and Guidelines section of the ASHRAE Bookstore at [www.ashrae.org/bookstore](http://www.ashrae.org/bookstore).

### **IMPORTANT NOTICES ABOUT THIS STANDARD**

**To ensure that you have all of the approved addenda, errata, and interpretations for this Standard, visit [www.ashrae.org/standards](http://www.ashrae.org/standards) to download them free of charge.**

**Addenda, errata, and interpretations for ASHRAE Standards and Guidelines are no longer distributed with copies of the Standards and Guidelines. ASHRAE provides these addenda, errata, and interpretations only in electronic form to promote more sustainable use of resources.**