

ANSI/ASHRAE/ICC/USGBC/IES Addendum bx to ANSI/ASHRAE/ICC/USGBC/IES Standard 189.1-2017

Standard for the Design of High-Performance Green Buildings

Except Low-Rise Residential Buildings

The Complete Technical Content of the International Green Construction Code®

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

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- b. participation in the next review of the Standard,
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FOREWORD

Addendum bx updates informative references in Appendix G to their most recent versions and adds new informative references relevant to Section 8.4.2.1.2 and Section 9.4.1.4.4, "Product Life Cycle."

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 bx to Standard 189.1-2017

Modify Section 4.3.3 as shown.

4.3.3 Informative Appendices. The informative appendices to this standard, and informative notes located within this standard, contain additional information that users of this standard may find useful, and are not mandatory or part of this standard.

Modify Appendix G, "Informative References," as shown. (Table appears on next page.)

INFORMATIVE APPENDIX G INFORMATIVE REFERENCES

This appendix contains informative references for the convenience of users of this standard and to acknowledge source documents when appropriate. Section numbers indicate ~~where the reference occurs~~ the relevant sections in this document.

Reference	Title	Section
ASHRAE 1791 Tullie Circle NE Atlanta, Georgia 30329, United States 1-404-636-8400; www.ashrae.org		
ASHRAE Handbook, 2015-2019	HVAC Applications	Appendix F
ASHRAE Standard 62.1-2016 (Appendix C)	Ventilation for Acceptable Indoor Air Quality	Table 10.3.1.4
ASTM International 100 Barr Harbor Dr. West Conshohocken, PA 19428-2959, United States 1-610-832-9585; www.astm.org		
ASTM C755-2010 (2015)	Standard Practice for Selection of Water Vapor Retarders for Thermal Insulation, Appendix X1 Problem Analysis	8.3.6
ASTM E1331-15 (2019)	Standard Test Method for Reflectance Factor and Color by Spectrophotometry Using Hemispherical Geometry	8.4.1
ASTM E1477 - 98a (2013)-(2017)e1	Standard Test Method for Luminous Reflectance Factor of Acoustical Materials by Use of Integrating-Sphere Reflectometers	8.4.1
BUS Methodology https://busmethodology.org.uk/index.html		
Occupant Satisfaction Evaluation Survey	https://busmethodology.org.uk/	10.3.2.1.5
California Environmental Protection Agency Office of Environmental Health Hazard Assessment Post Office Box 4010 Sacramento, CA 95812-4010, United States 1-916-324-7572; www.oehha.ca.gov		
http://www.oehha.org/air/allrels.html	All OEHHHA Acute, 8 hour and Chronic Reference Exposure Levels (chRELEs) as of June 2014	8.4.2, 8.5.2
Carpet and Rug Institute 730 College Drive Dalton, Georgia 30720, United States 1-706-278-3176; www.carpet-rug.org		
	Green Label Plus (https://carpet-rug.org/testing/green-label-plus)	8.4.2.3
Center for the Built Environment University of California, 390 Wurster Hall #1839 Berkeley, CA 94720-1839 (510) 642-4950; http://www.cbe.berkeley.edu		
http://www.cbe.berkeley.edu/research/survey.htm https://cbe.berkeley.edu/research/occupant-survey-and-building-benchmarking/	Indoor Environmental Quality (IEQ) Survey™	10.3.2.1.5
illuminating Engineering Society 120 Wall Street, Floor 17 New York, NY 10005-4001, United States 1-212-248-5017, www.ies.org		
IDA/IES Model Lighting Ordinance MLO-11	Model Lighting Ordinance (MLO)	5.3.6
IES HB-10-11	The Lighting Handbook: Reference and Application	7.4.6, 8.3.5
International Code Council, Inc. (ICC) 500 New Jersey Ave., NW 6th Floor Washington, DC 20001, United States https://www.iccsafe.org/		
IECC-2018/2021	International Energy Conservation Code	Appendix H

Reference	Title	Section
Market Transformation to Sustainability (MTS) 1511 Wisconsin Avenue, N.W. Washington, D.C. 20007, United States 1-202-338-3131; www.sustainableproducts.com		
MTS 1.0 WSIP Guide 2007-2012:1	Whole Systems Integrated Process Guide for Sustainable Buildings and Communities <u>Integrative Process (IP)—ANSI Consensus National Standard Guide—Design and Construction of Sustainable Buildings and Communities</u>	Appendix F
National Institute of Standards and Technology (NIST) 100 Bureau Drive Gaithersburg, MD 20899 1-301-975-2000; https://www.nist.gov/Bees2		
<u>BEES Online 2.0</u>	<u>Building for Environmental and Economic Sustainability (BEES)</u>	<u>9.4.1.4.4</u>
UL GREENGUARD Gold 2211 Newmarket Parkway, #110 Marietta, GA 30067, United States 1-800-427-9681; www.ul.com/environment		
UL2818-2013	Greenguard Certification Program for Chemical Emissions for Building Materials, Finishes and Furnishing	8.4.2, 8.5.2
UL2821-2013	Greenguard Certification Program Method for Measuring and Evaluating Chemical Emissions from Building Materials, Finishes and Furnishings	8.4.2, 8.5.2
<u>UL 2762-2011</u>	<u>EcoLogo Sustainability for Adhesives</u>	<u>8.4.2.1.2</u>
Usable Buildings Trust		
Occupant Satisfaction Evaluation Survey	http://www.busmethodology.org.uk	10.3.2.1.5

**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.

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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