

ANSI/ASHRAE/IESNA Addendum *a* to
ANSI/ASHRAE/IESNA Standard 90.1-2001



ASHRAE[®] STANDARD

Energy Standard for Buildings Except Low-Rise Residential Buildings

Approved by the ASHRAE Standards Committee on June 26, 2004; by the ASHRAE Board of Directors on July 1, 2004; and by the American National Standards Institute on July 1, 2004.

This standard is under continuous maintenance 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 are given at the back of this document and may be obtained in electronic form from ASHRAE's Internet Home Page, <http://www.ashrae.org>, or in paper form from the Manager of Standards. The latest edition of an ASHRAE Standard and printed copies of a public review draft may be purchased from ASHRAE Customer Service, 1791 Tullie Circle, NE, Atlanta, GA 30329-2305. E-mail: orders@ashrae.org. Fax: 404-321-5478. Telephone: 404-636-8400 (worldwide), or toll free 1-800-527-4723 (for orders in U.S. and Canada).

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**AMERICAN SOCIETY OF HEATING,
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SPECIAL NOTE

This American National Standard (ANS) is a national voluntary consensus standard developed under the auspices of the American Society of Heating, Refrigerating and Air-Conditioning Engineers (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 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,
- d. permission to reprint portions of the Standard.

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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.

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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.)

FOREWORD

Several of the informative references related to Section 11 in Appendix E are out of date in ANSI/ASHRAE/IESNA Standard 90.1-2001. This addendum updates the references related to building energy simulation software programs and annual weather data.

Note: In this addendum, changes to the current standard are indicated in the text by underlining (for additions) and strikethrough (for deletions).

Addendum *a1* to 90.1-2001 (I-P and SI editions)

In Informative Appendix E, revise the following references as shown:

INFORMATIVE APPENDIX E INFORMATIVE REFERENCES

BLAST

Building Systems Laboratory
University of Illinois
1206 West Green Street
Urbana, Illinois 61801
<http://www.bso.uiuc.edu/BLAST/index.html>
American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.
1791 Tullie Circle, NE
Atlanta, GA 30329 2305
(T) 404-636-8400
(F) 404-321-5478
<http://www.ashrae.org>

DOE-2 Data

Building Energy Simulation news
<http://simulationresearch.lbl.gov/un.html>
U.S. Department of Commerce
Technology Administration
National Technical Information Service
5285 Port Royal Road
Springfield, VA 22161
(T) 1-800-553-6847
(T) 1-888-584-8332
(T) 1-703-605-6000
(F) 1-703-321-8547
<http://www.ntis.gov>

TMY2 Data

National Renewable Energy Laboratory
NREL/RReDC
Attn: Pamela Gray-Hann
1617 Cole Blvd., MS-1612
Golden, Colorado, USA 80401
http://rredc.nrel.gov/solar/old_data/nsrdb/tmy2/

TMY Data

National Climatic Data Center
National Environmental Satellite, Data, and Information Service
National Oceanic and Atmospheric Administration
Climate Services Branch
Federal Building
Room 468
151 Patton Avenue
Asheville, NC 28801-5001
(T) 828-271-4800
(F) 828-271-4876
info@nede.noaa.gov
Free download at <http://doe2.com/Download/Weather/TMY>

WYEC2 Data

American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.
ASHRAE Bookstore
1791 Tullie Circle, NE
Atlanta, GA 30329-2305
(T) 404-636-8400
(F) 404-321-5478
<http://resourcecenter.ashrae.org/store/ashrae/>

WYEC Data

American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.
ASHRAE Customer Service
1791 Tullie Circle, NE
Atlanta, GA 30329 2305
(T) 404-636-8400
(F) 404-321-5478
orders@ashrae.org
Free download at <http://doe2.com/Download/Weather/WYEC>

IWEC Data

American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.
ASHRAE Bookstore
1791 Tullie Circle, NE
Atlanta, GA 30329-2305
(T) 404-636-8400
(F) 404-321-5478

CWEC Data

Canadian Climatic Service
Atmospheric Environment Service
4905 Dufferin Street
Downsview, Ontario
Canada M3H 5T4
(T) 416-739-4328
(F) 416-739-4446
Climate.services@ec.gc.ca

Subsection No.	Reference	Title/Source
11.2.1	DOE-2	National Technical Information Service Support provided by Lawrence Berkeley National Laboratory at the referenced web site
<u>11.2.2</u>	<u>IWEC</u>	<u>International Weather for Energy Calculations</u>
11.2.2	TMY ₂ Data	Typical Meteorological Year
11.2.2	CWEC Data	Canadian Weather for Energy Calculations

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.