ANSI/ASHRAE Addendum b
to ANSI/ASHRAE Standard 90.2-2007

ASHRAE STANDARD

Energy-Efficient Design of Low-Rise Residential Buildings

Approved by the ASHRAE Standards Committee on June 26, 2010; by the ASHRAE Board of Directors on June 30, 2010; and by the American National Standards Institute on July 1, 2010.

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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, or
d. permission to reprint portions of the Standard.

(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 objectors on informative material are not offered the right to appeal at ASHRAE or ANSI.)

FOREWORD

This addendum updates references in Standard 90.2-2007.

Addendum b to 90.2-2007

[Modify Section 10 as follows (I-P and SI units).]

NORMATIVE REFERENCES

AAMA		
American Architectural Manufacturers Association Des Plaines, IL		
AAMA/WDMA/CAS 101/I.S.2/A440~~-05~~**-08**	Standard Specification for Windows, Doors and Unit Skylights	Table 5.9.1

ARI		
Air-Conditioning and Refrigeration Institute Arlington, VA		
ARI Standard 210/240 ~~(1989)~~**(2008)**	Unitary Air-Conditioning Equipment and Air-Source Heat Pump Equipment	Table 6.9
ARI Standard 325 ~~(1993)~~**(1998)**	Ground Water-Source Heat Pump	Table 6.9

ASHRAE		
American Society of Heating, Refrigerating and Air-conditioning Engineers, Inc. Atlanta, GA		
ASHRAE Handbook—Fundamentals ~~(2001)~~**(2009)**	*ASHRAE Handbook—Fundamentals*	5.2.1, 5.2.2, 8.8.3.4.2, 8.8.5.1, 8.8.5.2, 8.8.5.4
ANSI/ASHRAE/IESNA Standard 90.1-~~2001~~**2007**	Energy Efficient Design of New Buildings Except Low-Rise Residential Buildings	7.3, A3.1

ASTM		
~~**American Society of Testing and Materials**~~ **ASTM International**		
~~**West Conshokocken, PA**~~ **West Conshohocken, PA**		
ASTM C90 ~~(2005)~~**(2008)**	Standard Specification for Loadbearing Concrete Masonry Units	5.3
ASTM E96 ~~(1992)~~**(2005)**	Standard Test Method for Water Vapor Transmission of Materials	3.3, 6.4
ASTM E283 ~~(1991)~~**(2004)**	Standard Test Method for Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors	Table 5.9.1, 8.8.3.4.2
ASTM E408 1971 (Reapproved ~~2002~~)**2008**	Standard Test Method for Total Normal Emittance of Surfaces Using Inspection-Meter Techniques	5.5
ASTM E779 ~~(2003)~~**(2007)**	Standard Test Method for Determining Air Leakage Rate by Fan Pressurization	8.8.3.4.3

NFRC		
National Fenestration Rating Council Silver Spring, MD		
NFRC 100 ~~(2001)~~**(2009)**	Procedures for Determining Fenestration Product U-Factors	5.8
NFRC 200 ~~(2001)~~**(2009)**	Procedures for Determining Fenestration Product Solar Heat Gain Coefficients at Normal Incident	5.8

NFPA		
National Fire Protection Association Quincy, MA		
ANSI Z223.1/NFPA 54 ~~(2002)~~**(2009)**	National Fuel Gas Code	6.6.2
NFPA 31 (2001)	Standard for the Installation of Oil Equipment; Solid Fuel Burning Equipment	6.6.2
NFPA 211 ~~(2000)~~ **(2006)**	Standard for Chimneys, Fireplaces, Vents, and Solid Fuel-Burning Appliances	6.6.2

[Modify Informative Appendix B as follows (I-P and SI units).]

(This appendix 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 objectors on informative material are not offered the right to appeal at ASHRAE or ANSI.)

INFORMATIVE APPENDIX B
INFORMATIVE REFERENCES

CRRC		
Cool Roof Rating Council Oakland, CA www.coolroofs.org		
CRRC-1 ~~(2002)~~**(2009)**	Cool Roof Rating Council Product Rating Program	5.5

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.