

**ERRATA SHEET FOR THE FIRST PRINTING OF
ANSI/ASHRAE/IESNA STANDARD 90.1-2004 (SI edition)
Energy Standard for Buildings Except Low-Rise Residential Buildings**

November 29, 2005

The corrections listed in this errata sheet apply to the first printing of ANSI/ASHRAE/IESNA Standard 90.1-2004, SI edition, identified as “86248 PC 1/05” on the outside back cover of the standard. Shaded items have been added since the previously published errata sheet dated April 20, 2005 was distributed.

More than one errata sheet may be required for a specific document. Please review the entire list on the ASHRAE website related to the applicable document and download all that apply.

NOTICE: ASHRAE now has a list server for Standing Standards Project Committee 90.1 (SSPC 90.1). 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 and the User’s Manual is available. To sign up for the list server please visit **Standards List Servers** on the Standards and Codes section of the ASHRAE website at <http://www.ashrae.org/template/AssetDetail/assetid/22410>.

Page(s) Erratum

17	Section 5. Building Envelope. In the compliance path figure at the beginning of Section 5 correct the spelling of prescriptive so it reads “5.5 – Prescriptive Path”.
19	Table 5.5.3.1. Change the title of Table 5.5.3.1 as follows: <i>(Note: Additions are shown in underline and deletions are shown in strikethrough.)</i> Roof U-Factor Multipliers for Exception to 5.5.1.1 5.5.3.1
22 through 30	TABLES 5.5-1 through 5.5-8 Building Envelope Requirements. Add a footnote to the bottom of Tables 5.5-1 through 5.5-8 as follows: “The following definitions apply: ci = continuous insulation (see Section 3.2), NR = no (insulation) requirement.”
24	TABLE 5.5-3 Building Envelope Requirements for Climate Zone 3 (A, B, C). In footnote “b” of Table 5.5-3 change “non-residential” to “nonresidential”.
34 & 35	Section 6.4.3.2 (a) Off-Hour Controls. Change Section 6.4.3.2 (a) Off-Hour Controls to Section 6.4.3.3 Off-Hour Controls and renumber the remainder of Section 6.4.3 as follows: <i>Text not shown will remain the same except as shown below in underline(addition) and strikethrough (deletion)</i> 6.4.3.2 Setpoint Overlap Restriction. (a)6.4.3.3 Off-Hour Controls. HVAC systems shall have the offhour controls required by Sections 6.4.3.2 3 .1 through 6.4.3.2 3 .4. Exceptions to 6.4.3.23:

6.4.3.23.1 Automatic Shutdown.

Exception to 6.4.3.23.1:

6.4.3.23.2 Setback Controls.

Exception to 6.4.3.23.2:

6.4.3.23.3 Optimum Start Controls.

6.4.3.23.4 Zone Isolation. ...Each isolation area shall be controlled independently by a device meeting the requirements of 6.4.3.23.1 (Automatic Shutdown)...

Exceptions to 6.4.3.23.4:

6.4.3.34 Ventilation System Controls.

6.4.3.34.1 Stair and Shaft Vents.

6.4.3.34.2 Gravity Hoods, Vents, and Ventilators.

Exceptions to 6.4.3.34.1 and 6.4.3.34.2:

6.4.3.34.3 Shutoff Damper Controls.

Exceptions to 6.4.3.34.3:

6.4.3.34.4 Dampers. Where *outdoor air* supply and exhaust air dampers are required by Section 6.4.3.34, they shall have a maximum leakage rate when tested in accordance with AMCA Standard 500 as indicated in Table 6.4.3.34.4.

TABLE 6.4.3.34.4 Maximum Damper Leakage

6.4.3.34.5 Ventilation Fan Controls. Fans with motors greater than $\frac{3}{4}$ hp (0.5 kW) shall have automatic controls complying with Section 6.4.3.23.1 that are capable of shutting off fans when not required.

Exception to 6.4.3.34.5:

6.4.3.45 Heat Pump Auxiliary Heat Control.

Exception to 6.4.3.45:

6.4.3.56 Humidifier Preheat.

6.4.3.67 Humidification and Dehumidification.

Exceptions to 6.4.3.67:

6.4.3.78 Freeze Protection and Snow/Ice Melting Systems.

6.4.3.89 Ventilation Controls for High-Occupancy Areas.

Exception to 6.4.3.89:

43 and
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TABLE 6.8.1A Air Conditioners and Condensing Units. Change the title of Table 6.8.1A from “Air Conditioners and Condensing Units” to “Electronically Operated Unitary Air Conditioners and Condensing Units – Minimum Efficiency Requirements”.

45 **TABLE 6.8.1B Electrically Operated Unitary and Applied Heat Pumps – Minimum Efficiency Requirements.** In Table 6.8.1B for equipment type “Air Cooled (Cooling Mode)”, under size category “ ≥ 70 kW”, change the minimum efficiency from “2.78 COP_c” to “2.64 COP_c” for “Electric Resistance (or None)” and from “2.72 COP_c” to “2.58 COP_c” for “All other” heating section type.

65 **Table 9.6.1 Lighting Power Densities Using the Space-by-Space Method.** In the second column, for the Building Specific Space Type “Retail”, change the referenced section as follows:
(*Note: Additions are shown in underline and deletions are shown in strikethrough.*)

Retail [For accent lighting, see ~~9.3.1.2.1(e)~~ 9.6.3(c)]

130 **Normative Appendix D Climatic Data.** At the top of the page delete the second sentence that reads “Table numbers corresponding to the envelope criteria tables in Normative Appendix B are also included.”

168 **Table F-2 Addenda to ANSI/ASHRAE/IESNA Standard 90.1-2001, Approval Dates.** In the third and fourth columns for Addenda q, t, u, y, z, aa, ab, ac, ae, ag, ah, ai, al, and am change the July 1, 2001 date to July 1, 2004 (14 places in each of the two columns).