

ERRATA SHEET FOR SECOND PRINTING

ASHRAE/IES STANDARD 90.1-1989
ENERGY EFFICIENT DESIGN OF NEW BUILDINGS EXCEPT LOW-RISE RESIDENTIAL BUILDINGS

November 9, 1990

The following errata apply to the first and second printing of ASHRAE/IES 90.1-1989. The outside back cover marking identifying the printing is "90.1 1-90 REPRINT 7-90" for the second printing, and is blank for the first printing.

Errata

Fig. 8-8, p. 32 and Fig. 8b-4, p. 81. Delete the caption of Fig. 8B-4 and substitute in its place the current caption of Fig. 8-8. The new caption of Fig. 8B-4 will then read:

"Maximum Overall Transmittance of Opaque Wall Sections with $HC < 7$."

Change the Fig. 8-8 caption to read:

"Maximum Overall Thermal Transmittance of Opaque Walls Enclosing Conditioned Spaces Exposed to Interior Unconditioned Spaces"

Comment: to carry out the original intent of the project committee. The current caption of Fig. 8-8 applies to Fig. 8B-4. Fig. 8-8 is referenced in paragraph 8.6.8 and is intended to apply to opaque walls enclosing conditioned spaces.

8.6.10.2(a), p. 33. In item (a) of paragraph 8.6.10.2, change the figure reference from "Fig. 8-7" to "Fig. 8B-4."

Appendix B, Table B-2, p. 125. In the left column of Table B-2, under "Retail Establishments," delete the following titles shown with strikeout markings:

- 98 Type A ~~(Mass Merchandising)~~
- 99 Type B ~~(Service Retail)~~
- 100 Type C ~~(Mixed Use Retail)~~
- 101 Type D ~~(Specialty Shop)~~
- 102 Type E ~~(Fine Merchandising)~~
- 103 Type F ~~(Service Establishment)~~.

In Table B-2, p. 125 add footnote (a) keyed to "Retail Establishments," worded as follows, similar to note "e" to Table 6-6b. A similar note will be added to future revisions of the software:

"(a) See Section 3, Definitions, for classification of retail establishments."

Comment: There is an error in the present classification title listing in Appendix B. The listing is correctly given in Section 3 Definitions. Table 6-6b properly refers the reader to the Definitions Section for "Type" meaning. It is best to have retail establishments defined in only one place.

Fig. 8-1, p. 22. In the box "GENERAL REQUIREMENTS" in Fig. 8-1, add reference to paragraph 8.4.9, worded as follows:

"8.4.9 Thermal Resistance of Below-Grade Components (R)"

Comment: This paragraph reference was inadvertently omitted from Figure 8-1.

8B.1, p. 74. In 8B.1, the first paragraph, last sentence, delete the terms "WC_h, WC_c."

Comment: Orientations and aspect ratios for WC_h and WC_c are defined in paragraph 8B.2(a).

8B.1, p. 75. In the Cooling Delta Load Factor Equation (CMC), the definition of CP₈ should be changed to:

$$CP_8 = C_8/(AB)^2 + C_9/(AB) + C_{10}/(A^2/\sqrt{B}) + C_{11}$$

Comment. Corrects a typographical error by adding a missing quotient symbol to the third term, consistent with the ENVSTD program.

Table 8B-2, CXU05, East, p. 76. In the Cooling Equation Coefficient for CXU05, East, change the exponent for the constant -0.909694 from E-03 to E-05.

Comment: Corrects a typographical error.