

**Errata Sheet Number 2 for Second Printing  
 ERRATA FOR ASHRAE/IES STANDARD 90.1-1989  
 Energy Efficient Design of New Buildings  
 Except Low-Rise Residential Buildings  
 May 8, 1991**

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.

**Definitions Section:** Seasonal energy efficiency ratio, p.6 units should be BTU, not BTU/h.

**Equation 8B-4, p.75:**

Insert a minus sign (-) after the CP<sub>3</sub>U Term to read as follows:

$$\text{CMC} = \text{Cooling Delta Load Factor} = [1 - e^{-\text{CP}_1(\text{HC}-1)}] \times$$

$$\left| \begin{array}{c} \text{CP}_2 + \text{CP}_3\text{U} - \frac{\text{CP}_4}{1 + (\text{CP}_5 + \text{CP}_6\text{U}) e^{-(\text{CP}_7 + \text{CP}_8\text{U}^2)(\text{HC}-1)}} \end{array} \right|$$

$$\times \left[ \frac{1.0}{0.7} \right]$$

**Figure 8B-4, p.81:**

New figure attached. The curve should intersect the U = 1.0 line at HDD65 = 196. It currently intersects at around HDD65 = 500.

**Table 13-6b p. 108, Remarks -**

System #4

From: Minimum VAV setting per 9.5.2 Exception: Supply...

To: Minimum VAV setting per 9.5.2, exception (a). Supply...

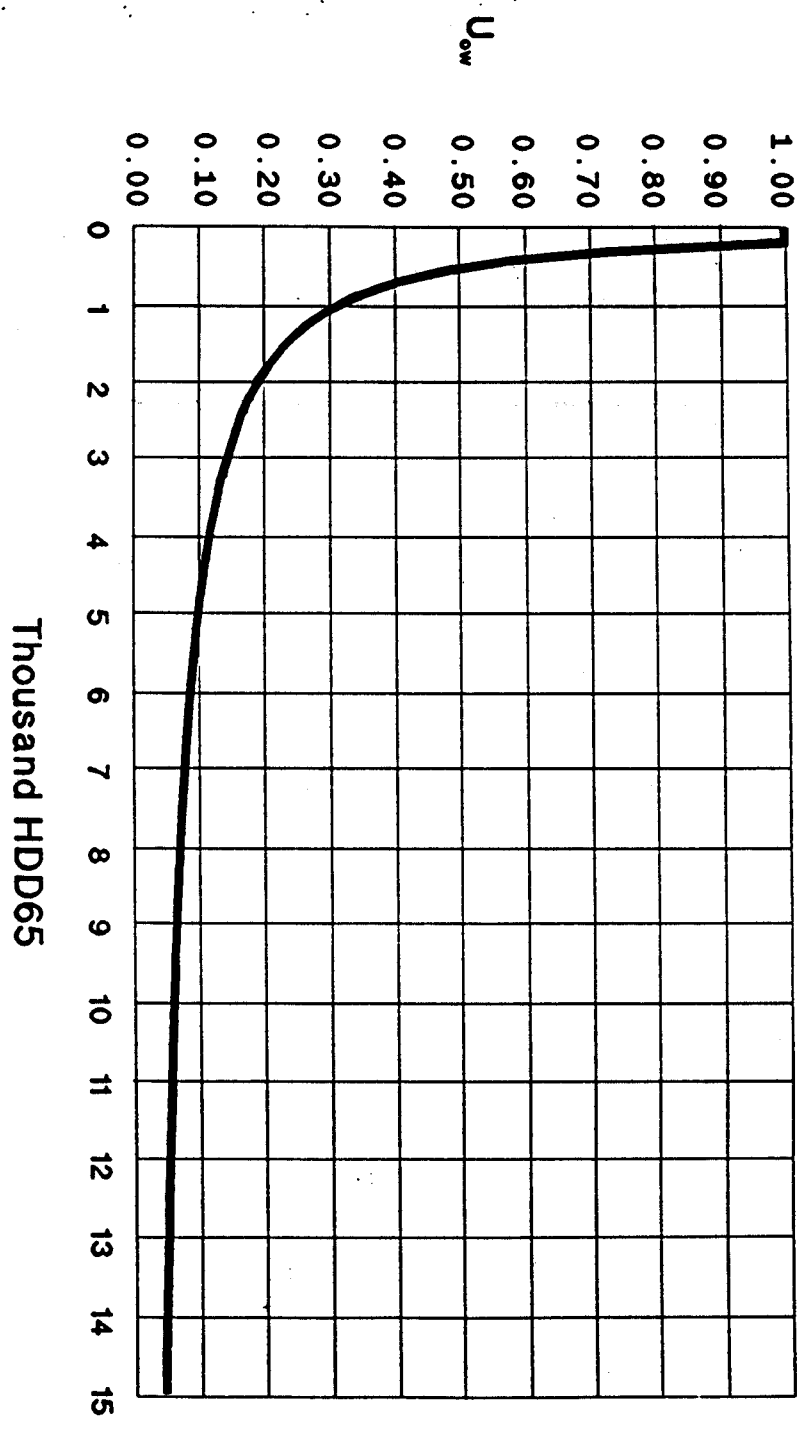
**Table 13-6d p. 109, Remarks -**

System #5

From: Minimum VAV setting per 9.5.2 Exception: Supply...

To: Minimum VAV setting per 9.5.2, exception (a). Supply...

# Overall Thermal Transmittance of Opaque Wall Sections



Note: for HDD65 < 196,  $U_{ow} = 1.0$   
 for  $196 \leq \text{HDD65} \leq 15000$ ,  $U_{ow} = 42.787 \times \text{HDD65}^{-0.712}$