

## Errata for 2012 Uniform Plumbing Code – 8th Printing

The following is a list of changes that we found after the eighth printing of the 2012 Uniform Plumbing Code. These changes may or may not apply to your code book. However, we do encourage you to check your code book with this list to ensure that all the changes are updated. Thank you.

### Appendix I

**IS 5 – Table 1**      Revise table to correct the temperature unit conversions.

<b>TABLE 1 THERMAL EXPANSION TABLE</b>							
Chart Shows Length Changes in Inches vs. Degrees Temperature Change Coefficient of Linear Expansion: $e = 5.5 \times 10^{-5} \frac{\text{in}}{\text{in } ^\circ\text{F}}$							
LENGTH (feet)	40°F	50°F	60°F	70°F	80°F	90°F	100°F
20	0.528	0.660	0.792	0.924	1.056	1.188	1.320
40	1.056	1.330	1.584	1.848	2.112	2.376	2.640
60	1.584	1.980	2.376	2.772	3.168	3.564	3.96
80	2.112	2.640	3.168	3.696	4.224	4.752	5.280
100	2.640	3.300	3.960	4.620	5.280	5.940	6.600

  

<b>TABLE 1 (METRIC) THERMAL EXPANSION TABLE</b>							
Chart Shows Length Changes in Millimeters vs. Degrees Temperature Change Coefficient of Linear Expansion: $e = 9.821 \times 10^{-5} \frac{\text{mm}}{\text{mm } ^\circ\text{C}}$							
LENGTH (mm)	22°C	28°C	33°C	39°C	44°C	50°C	56°C
6096	13.2	16.8	19.8	23.4	26.3	29.9	33.5
12 192	26.3	33.5	39.5	46.7	52.7	59.9	67.1
18 288	39.5	50.3	59.3	70.0	79.0	89.8	100.6
24 384	52.7	67.1	79.0	93.4	105.4	119.7	134.1
30 480	65.9	83.8	98.8	116.7	131.7	149.7	167.6

Example:  
 Highest Temperature expected    100°F (38°C)  
 Lowest Temperature expected     $\frac{-50^\circ\text{F} \quad (10^\circ\text{C})}{50^\circ\text{F} \quad (28^\circ\text{C})}$

Length of run – 60 feet (18 288 mm) from chart, read 1.980 inches (50.3 mm) linear expansion that must be provided for.