Procedure for determining Pre-Set of Expansion Joints

Determine Average design temperature. Maximum temperature minus Minimum temperature divided by 2
Example: 110 + (-20) / 2 = 45 deg F

Determine Offset Temperature (Difference between Installation Temperature and Design temperature)
Installation temperature minus Design temperature
Example: assume a 75 Deg installation temperature
75 - 45 = (30 deg F.)

Determine the Pre-Set offset
Multiply the Distance between Expansion Joints (times 12 to convert to inches) times the Coefficient of expansion
(0.000014 in. / in. / deg. F.) Times the offset Temperature
Example: 200 X 12 X 0.000014 X (30) = (1.008")

The result is the amount of Pre-set from the center of travel on the Expansion Joint.
Example: Set the joint approximately 1” from the center of travel on the positive side of the scale