

**Delaware Department of Transportation  
Materials and Research  
Dover, Delaware**

DATE: \_\_\_\_\_

**TEMPERATURE OF FRESHLY MIXED CONCRETE  
PERFORMANCE CHECKLIST  
AASHTO T309 (ASTM C-1064)**

|  | YES   | NO    | RECHECK<br>DATE P/F |
|--|-------|-------|---------------------|
| 1. Obtain sample of concrete large enough to provide a minimum of 3 inches of concrete around sensor in all directions.  | _____ | _____ | _____               |
| 2. Use ASTM approved thermometer accurate to $\pm 1^{\circ}\text{F}$ ( $0.5^{\circ}\text{C}$ ) and a range from $0^{\circ}\text{F}$ to $120^{\circ}\text{F}$ ( $-18^{\circ}\text{C}$ - $49^{\circ}\text{C}$ ). | _____ | _____ | _____               |
| 3. Place thermometer in sample with minimum of 3 inches cover around sensor.   | _____ | _____ | _____               |
| 4. Gently press concrete around thermometer.   | _____ | _____ | _____               |
| 5. Complete temperature measurement within 5 minutes after obtaining sample.   | _____ | _____ | _____               |
| 6. Record temperature to nearest degree Fahrenheit (0.5 degree Celsius).   | _____ | _____ | _____               |

\_\_\_\_\_  
SUPERVISOR

\_\_\_\_\_  
TECHNICIAN