
Standard Method of Test for

Temperature of Freshly Mixed Hydraulic-Cement Concrete

AASHTO Designation: T 309M/T 309-05

ASTM Designation: C 1064/C 1064M-04



**American Association of State Highway and Transportation Officials
444 North Capitol Street N.W., Suite 249
Washington, D.C. 20001**

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1. The values stated in SI units are to be regarded as the standard.
2. All references to ASTM standards contained in ASTM C 1064/C 1064M-04, listed in the following table, shall be replaced with the corresponding AASHTO standard.

<i>Referenced Standards</i>	
ASTM	AASHTO
C 172	T 141
	R 18

3. Replace Sections 4.2 and 4.4 of ASTM C 1064/C 1064M-04 with the following:
4.2 Temperature Measuring Device—The temperature measuring device shall be capable of measuring the temperature of the freshly mixed concrete to $\pm 0.5^{\circ}\text{C}$ ($\pm 1^{\circ}\text{F}$) throughout the entire temperature range likely to be encountered in the fresh concrete. Liquid-in-glass thermometers having a range of -18 to 49°C (0 to 120°F) are satisfactory. Other thermometers of the required accuracy, including the metal immersion type, are acceptable.
4.4 Reference Temperature Measuring Device—The reference temperature measuring device shall be readable to 0.2°C (0.5°F) that has been verified and calibrated. The calibration certificate or report indicating conformance to the requirements of ASTM E 77 shall be available for inspection.
4. Replace Section 5 of ASTM C 1064/C 1064M-04 with the following:
5. Calibration of Temperature Measuring Device
5.1 Each temperature measuring device used for determining temperature of freshly mixed concrete shall be calibrated every 6 months per R 18, or whenever there is a question of accuracy. This calibration shall be performed by comparing the readings on the temperature measuring device at two temperatures at least 15°C (27°F) apart.