

## Equipment Checklist

### ASTM C-511 Mixing Rooms, Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the Testing of Hydraulic Cements and Concretes

		P	F	N/A
<b>Temperature Measuring Device</b>				
1.	The reference temperature measuring device used to verify the temperature recorder, must be accurate and readable to 0.5 °C.			
2.	Temperature recorder shall record temperatures every 15 min or less and shall be accurate and readable to 1 °C.			
3.	Temperature recorder data shall be evaluated at a minimum of once each week and a record of this evaluation with date checked and data within temperature range shall be maintained in the laboratory.			
4.	Temperature recorder shall be verified at least every six months or whenever there is a question of accuracy.			
5.	For moist cabinets and rooms, position the reference temperature measuring device in a readable position in the air as near as practical to the temperature recorder probe.			
6.	For water storage tanks, position the reference temperature measuring device in a readable position in water as near as practical to the temperature recorder probe.			
7.	Verify the accuracy of the temperature recorder by comparing the reading of the temperature recorder with that of the reference temperature measuring device. The difference between the temperature readings shall be within 1 °C.			
<b>Moist Cabinets and Moist Rooms</b>				
8.	Maintain the atmosphere in a moist cabinet or moist room at a temperature of 23.0 ± 2 °C and a relative humidity of not less than 95%.			
9.	Maintain atmospheric conditions within a moist cabinet or moist room such that test specimens in storage are saturated with moisture to the degree needed to ensure that exposed surfaces of all specimens in storage both look and feel moist.			
10.	Moist cabinets and moist rooms will be equipped with a temperature recorder.			
11.	Ensure that test specimens are not exposed to dripping or running water.			
<b>Water Storage Tanks</b>				
12.	The water storage tanks shall be constructed of non-corroding materials.			
13.	The water storage tank shall be located in an area where the water temperature will be at 23.0 ± 2 °C			
14.	Provision for automatic control of water temperature at 23.0 ± 2 °C shall be made where a tank is located in an area not having temperature controlled within 23.0 ± 2 °C.			
15.	When water storage tanks are not located in a moist cabinet or moist room, the tanks shall be equipped with a temperature recorder with its sensing element in the storage water.			
16.	The water in a storage tank shall be saturated with calcium hydroxide.			
17.	The water in the storage tank shall be thoroughly stirred at intervals not to exceed one month.			
18.	Tanks shall be cleaned and refilled with water containing 3 g/L of calcium hydroxide at intervals not to exceed 24 months.			
19.	Do not use continuously running fresh water or demineralized water in storage tanks.			
20.	A closed system, circulating the saturated lime water between or among storage tanks, may be used.			

**Remarks:**

Date: \_\_\_\_\_ Technician: \_\_\_\_\_ IA Observer: \_\_\_\_\_

Technician's E-mail Address: \_\_\_\_\_

Employer's/ Supervisor's E-mail Address: \_\_\_\_\_