

Performance Exam Checklist

Air Content of Concrete (Volumetric Method) for AASHTO T 196

Participant Name _____

Exam Date _____

Procedure Element

Yes No

1. Bowl filled in two equal layers?
2. Each layer rodded 25 times?
3. Bowl tapped (sharply) 10 to 15 times after rodding each layer?
4. Excess concrete removed with strike-off bar or plate?
5. Flange of bowl wiped clean?
6. Using funnel, water added, then alcohol added, then final water added until liquid level appears in neck?
7. Funnel removed & water adjusted to zero mark using rubber syringe?
8. Screw cap is attached and tightened?

Initial Reading

9. Unit inverted and agitated at 5 second intervals for a minimum of 45 seconds and until concrete is free from base?
10. Unit vigorously rolled $\frac{1}{4}$ to $\frac{1}{2}$ turn forward and back several times with base at a 45° angle. Then turn base about $\frac{1}{3}$ turn and rolling process resumed.
11. Was meter checked for leaking?
 - a. If leak was found, was test started over with new sample?
12. Apparatus placed upright, top loosened and allowed to stand until air rises to the top?
 - a. < 0.25 percent change in 2 minutes (without excessive foam), initial reading recorded to the nearest 0.25%?
 - b. More than 6 minutes to stabilize or excessive foam, was test discarded and new test run?

Confirmation of Initial Meter Reading

13. 1 minute rolling repeated and liquid level checked?
14. Confirmation reading > 0.25 percent of initial, new reading recorded as new initial reading, repeat 1 minute rolling
15. Level of liquid read < 0.25 percent change, final meter reading recorded to nearest 0.25%?
16. Apparatus disassembled and checked for undisturbed concrete

Calculations

17. Correction factor from Table 1 subtracted for use of 2.5 pts or more of alcohol?
18. If required, number of calibration cups of water added to air content?
19. Air content reported to the nearest 0.25 percent air?

First Attempt: Pass Fail

Second Attempt: Pass Fail

Signature of Examiner _____

Comments: