

Performance Exam Checklist

AASHTO T 196

Air Content of Concrete (Volumetric Method)

Participant Name: _____ Exam Date: _____

Record the symbols "P" for passing or "F" for failing on each step of the checklist.

Procedure Element	Trial 1	Trial 2
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 $\frac{1}{8}$ 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?	_____	_____

Procedure Element

Trial 1 Trial 2

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? _____

Comments: First Attempt: Pass _____ Fail _____ Second Attempt: Pass _____ Fail _____

Examiner Signature: _____ WAQTC #: _____