



WSDOT Test Method T 818

Air Content of Freshly Mixed Self-Compacting Concrete by the Pressure Method

1. The air test will be performed in accordance with WSDOT FOP for WAQTC T 152 with the following modifications to the procedure:
 - a. Change item 3 to read: Fill the base completely in one lift.
Note: Filling the base with concrete by using multiple scoops or by pouring from a bucket or similar container has been found to be acceptable.
 - b. Change item 4 to read: Do not consolidate the concrete by rodding, vibration, or tamping. When the base is filled, lightly tap around the exterior of the base with a rubber mallet to allow entrapped air bubbles to escape.
 - c. Delete items 5 through 11.

Performance Exam Checklist

WSDOT T 818

Air Content of Freshly Mixed Self Compacting Concrete by the Pressure 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. The tester has a copy of the current procedure on hand?	_____	_____
2. All equipment is functioning according to the test procedure, and if required, has the current calibration/verification tags present?	_____	_____
3. Container filled in one layer, slightly overfilling?	_____	_____
4. Sides of the container lightly tapped with the mallet?	_____	_____
5. Concrete struck off level with top of container using the bar and rim cleaned off?	_____	_____
6. Inside of cover cleaned and moistened before clamping to base?	_____	_____
Using a Type B Meter		
7. Both petcocks open?	_____	_____
8. Air valve closed between air chamber and the bowl?	_____	_____
9. Water injected through petcock until it flows out the other petcock?	_____	_____
10. Water injection into the petcock continued while jarring and tapping the meter to insure all air is expelled?	_____	_____
11. Air pumped up to initial pressure line?	_____	_____
12. A few seconds allowed for the compressed air to stabilize?	_____	_____
13. Gauge adjusted to the initial pressure?	_____	_____
14. Both petcocks closed?	_____	_____
15. Air valve opened between chamber and bowl?	_____	_____
16. Sides of bowl tapped with the mallet?	_____	_____
17. Air percentage read after lightly tapping the gauge to stabilize the hand?	_____	_____
18. Air valve closed and then petcocks opened to release pressure before removing the cover?	_____	_____
19. Air content recorded to 0.1 percent?	_____	_____
20. All calculations performed correctly?	_____	_____

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

Examiner Signature: _____ WAQTC #: _____

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