

**Delaware Department of Transportation
Materials and Research
Dover, Delaware**

DATE: _____

**AIR CONTENT OF FRESHLY MIXED CONCRETE
BY THE PRESSURE METHOD
PERFORMANCE CHECKLIST
AASHTO T152 (ASTM C-231)**

	YES	NO	RECHECK DATE P/F
1. Select a representative sample.	_____	_____	_____
2. Fill container in three equal layers, slightly overfilling the last layer	_____	_____	_____
3. Rod each layer 25 times with hemispherical end of rod, uniformly distributing strokes.	_____	_____	_____
4. Rod bottom layer throughout its depth without forcefully striking bottom of mold.	_____	_____	_____
5. Rod the middle and top layer throughout their depths and penetrating 1 in. into the underlying layers.	_____	_____	_____
6. Tap the sides of the container smartly 10-15 times with the mallet after rodding each layer.	_____	_____	_____
7. Strike off concrete level with top of container using the bar and clean off rim.	_____	_____	_____
8. Clean and moisten inside of cover before clamping to base.	_____	_____	_____
9. Open both petcocks.	_____	_____	_____
10. Close air valve between air chamber.	_____	_____	_____
11. Inject water through petcock until it flows out the other petcock.	_____	_____	_____
12. Continue injecting water into the petcock until it flows out the other petcock.	_____	_____	_____
13. Pump air up to initial pressure line.	_____	_____	_____
14. Allow a few seconds for the compressed air to stabilize.	_____	_____	_____
15. Adjust the gauge to the initial pressure.	_____	_____	_____

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| 16. Close both petcocks. | _____ | _____ | _____ |
| 17. Open air valve between chamber and bowl. | _____ | _____ | _____ |
| 18. Tap sides of bowl sharply. | _____ | _____ | _____ |
| 19. Read the air percentage after lightly tapping the gauge to stabilize the hand. | _____ | _____ | _____ |
| 20. Close the air valve and then open petcocks to release pressure before removing the cover. | _____ | _____ | _____ |
| 21. Calculate air content correctly.
Air Content = (meter reading)-(aggregate correction factor) | _____ | _____ | _____ |

SUPERVISOR

TECHNICIAN