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| DOTLOGO2 | | | | | **Illinois Modified AASHTO T 152 Checklist**  **Air Content of Freshly Mixed Concrete by the Pressure Method, Type B Meter** | | | | | |
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| The following is a summary checklist of the key steps involved in determining the air content of freshly mixed concrete by the pressure method, using the Type B meter. | | | | | | | | | | |
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| **Did the tester:** | | |  | | | | | **YES** | **NO** |  |
|  | | | | | | | | | | |
| 1. | Dampen the inside of the air meter bowl and top, the hand scoop or trowel, the tamping rod, and the strike-off bar? | | | | | | |  |  |  |
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| 2. | Fill the bowl in three equal layers by volume, slightly overfilling the top layer? | | | | | | |  |  |  |
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| 3. | Rod each layer 25 times with the hemispherical end of the tamping rod, uniformly distributing the strokes? | | | | | | |  |  |  |
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| 4. | Rod the bottom layer throughout its depth, without forcefully striking the bottom of the bowl? | | | | | | |  |  |  |
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| 5. | Rod the middle and top layers about 1 in. (25 mm) into the underlying layer? | | | | | | |  |  |  |
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| 6. | Tap the sides of the bowl smartly 10-15 times with the mallet after rodding each layer? | | | | | | |  |  |  |
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| 7. | Strike off the concrete level with the top of the bowl using the strike-off bar and clean off the rim? | | | | | | |  |  |  |
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| 8. | Clean and moisten the inside of the cover before clamping it to the base? | | | | | | |  |  |  |
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| 9. | Open both petcocks? | | | | | | |  |  |  |
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| 10. | Close the main air valve between the air chamber and the bowl? | | | | | | |  |  |  |
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| 11. | Inject water through the petcock until it flowed out the other petcock? | | | | | | |  |  |  |
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| 12. | Continue injecting water into the petcock while jarring the meter to insure all air was expelled? | | | | | | |  |  |  |
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| 13. | Pump air until the gauge needle was on the initial pressure line? | | | | | | |  |  |  |
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| 14. | Allow a few seconds for the compressed air to cool? | | | | | | |  |  |  |
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| 15. | Adjust the gauge needle to the initial pressure line? | | | | | | |  |  |  |
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| 16. | Close both petcocks? | | | | | | |  |  |  |
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| 17. | Open the main air valve between the chamber and bowl? | | | | | | |  |  |  |
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| 18. | Read the air percentage after lightly tapping the gauge to ensure the needle is not sticking? | | | | | | |  |  |  |
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| 19. | Close the main air valve and then open the petcocks to release the air pressure before removing the cover? | | | | | | |  |  |  |
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| 20. | Calculate and record the air content to the nearest tenth of a percent?  Air Content = Gauge Reading - Aggregate Correction Factor | | | | | | |  |  |  |
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| Tester: | |  | | Observer: | |  | Date: | |  | |
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| REMARKS: | |  | | | | | | | | |
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