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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** |  |
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| 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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