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| DOTLOGO2 | | | | | **Illinois Modified AASHTO T 152 Checklist**  **Air Content of Freshly Mixed Concrete by the Pressure Method, Type A 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 A 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. | Add water through the funnel valve until the level was slightly above the index mark, or until water flowed from the upper petcock? | | | | | | |  |  |  |
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| 10. | Adjust the bottom of the meniscus (water level) to be level with the index mark? | | | | | | |  |  |  |
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| 11. | Close the funnel valve and upper petcock and apply pressure using the hand pump? | | | | | | |  |  |  |
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| 12. | Read the air content at 15 psi (103 kPa), or apply the proper multiplication factor (1.25 or 2.00) if the test was conducted at 10 or 5 psi (69 or 34 kPa), respectively? | | | | | | |  |  |  |
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| 13. | 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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