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| DOTLOGO2 | | | | | **Illinois Modified AASHTO T 121 Checklist**  **Unit Weight, Yield, and Air Content (Gravimetric)   of Concrete** | | | | | |
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| The following is a summary checklist of the key steps involved in determining the unit weight of freshly mixed concrete. | | | | | | | | | | |
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| **Did the tester:** | | |  | | | | | **YES** | **NO** |  |
|  | | | | | | | | | | |
| 1. | Determine and record the weight (mass) of the empty container? | | | | | | |  |  |  |
|  | | | | | | | | | | |
| 2. | Dampen the container, the hand scoop or trowel, the tamping rod, and the strike-off plate? | | | | | | |  |  |  |
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| 3. | Fill the container in three equal layers by volume, slightly overfilling the top layer? | | | | | | |  |  |  |
|  | | | | | | | | | | |
| 4. | Rod each layer 25 times for a 0.5 ft3 (0.014 m3) or smaller container? | | | | | | |  |  |  |
|  | | | | | | | | | | |
| 5. | Rod the bottom layer throughout its depth, without forcibly striking the bottom of the measure? | | | | | | |  |  |  |
|  | | | | | | | | | | |
| 6. | Rod the middle and top layers about 1 in. (25 mm) into the underlying layer? | | | | | | |  |  |  |
|  | | | | | | | | | | |
| 7. | Tap the sides of the container smartly 10-15 times with the mallet after rodding each layer? | | | | | | |  |  |  |
|  | | | | | | | | | | |
| 8. | Strike off the concrete level with the top of the container using the strike-off plate and clean off the rim? | | | | | | |  |  |  |
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| 9. | Determine and record the total mass (weight) of the container and concrete? | | | | | | |  |  |  |
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| Tester: | |  | | Observer: | |  | Date: | |  | |
|  | | | | | | | | | | |
| REMARKS: | |  | | | | | | | | |
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