|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| DOTLOGO2 | | | | | | | **Calibration of Concrete Test Equipment**  **Air Meter, Volumetric** | | | | | | | |
|  | | | | | | | | | | | | | | |
| Owner of Equipment: | | |  | | | | Manufactured By: | | |  | | | | |
|  | | | | | | | | | | | | | | |
| Model No.: | |  | | | Serial No.: |  | | | IDOT No.: | | |  | | |
|  | | | | | | | | | | | | | | |
| Inspection References: (check one) | | | | Illinois Modified AASHTO T 196 | | | | | ASTM C 173 | | | | | |
|  | | | | | | | | | | | | | | |
| Frequency: | | a. Every 12 months, or  b. When there is a question of calibration. | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | |
|  | | | | | | | CalibrationsA | | | | | | | |
|  | | | | | | | # 1 | # 2 | # 3 | | # 4 | | # 5 | # 6 |
| Record date of inspection. (mm/dd/yy) | | | | | | |  |  |  | |  | |  |  |
| Indicate date of next inspection. (mm/dd/yy) | | | | | | |  |  |  | |  | |  |  |
| Are interior and exterior clean? (Y/N) | | | | | | |  |  |  | |  | |  |  |
| Do clamps and screw cap work properly? (Y/N) | | | | | | |  |  |  | |  | |  |  |
| Are gasket and transparent scale in good condition? (Y/N) | | | | | | |  |  |  | |  | |  |  |
| Record bowl height. | | | | | | |  |  |  | |  | |  |  |
| Record bowl diameter. (1.00 to 1.25 times the height?) | | | | | | |  |  |  | |  | |  |  |
| Does funnel spout extend to a point just above the top section’s bottom? (Y/N) | | | | | | |  |  |  | |  | |  |  |
| Is calibrated cup total capacity or graduated increments equal to 1.00 ± 0.04% of the volume of the bowl? (Y/N) | | | | | | |  |  |  | |  | |  |  |
| Is the rubber bulb syringe capacity at least 2 oz. (50 mL)? (Y/N) | | | | | | |  |  |  | |  | |  |  |
| Is the alcohol 70 % by volume isopropyl alcohol? (Y/N) | | | | | | |  |  |  | |  | |  |  |
| Is tamping rod tip hemispherical? (Y/N) | | | | | | |  |  |  | |  | |  |  |
| Record diameter of tamping rod and hemispherical tip.  (5/8 ± 1/16 in. (16 ± 2 mm)) | | | | | | |  |  |  | |  | |  |  |
| Record tamping rod length. (Refer to test method for acceptable length, but 16 in. (400 mm) to 24 in. (600 mm) is typically acceptable.) | | | | | | |  |  |  | |  | |  |  |
| Record strike-off bar length.B (≥ 12 in. (300 mm)) | | | | | | |  |  |  | |  | |  |  |
| Record strike-off bar width.B (≥ 3/4 in. (20 mm)) | | | | | | |  |  |  | |  | |  |  |
| Record strike-off bar thickness.B (≥ 1/8 in. (3 mm)) | | | | | | |  |  |  | |  | |  |  |
| Record mallet weight (mass). (1.25 ± 0.50 lb (0.57 ± 0.23 kg)) | | | | | | |  |  |  | |  | |  |  |
| Indicate rubber or rawhide mallet head. | | | | | | |  |  |  | |  | |  |  |
|  | | | | | | | | | | | | | | |
| Name of Inspector/Comments: (For BMPR\*: Supervisor shall initial each calibration following completion.) | | | | | | | | | | | | | | |
| # 1 |  | | | | | | | | | | | | | |
| # 2 |  | | | | | | | | | | | | | |
| # 3 |  | | | | | | | | | | | | | |
| # 4 |  | | | | | | | | | | | | | |
| # 5 |  | | | | | | | | | | | | | |
| # 6 |  | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | |
| \*BMPR: IDOT Bureau of Materials and Physical Research | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | |
| A A “No” answer or measured value outside of indicated tolerances requires the equipment to be repaired or replaced. For any discrepancy, the applicable inspection reference(s) indicated above shall have precedence over this calibration form.  B Refer to Illinois Modified AASHTO T 196 or ASTM C 173 to obtain required dimensions for high density polyethylene or other plastic strike-off bars. | | | | | | | | | | | | | | |