|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| DOTLOGO2 | | | | | | | | **Calibration of Concrete Test Equipment**  **Air Meter, Type “A”** | | | | | | | | |
|  | | | | | | | | | | | | | | | | |
| Owner of Equipment: | | |  | | | | | Manufactured By: | | | |  | | | | |
|  | | | | | | | | | | | | | | | | |
| Model No.: | |  | | | Serial No.: | |  | | | IDOT No.: | | | |  | | |
|  | | | | | | | | | | | | | | | | |
| Inspection References: (check one) | | | | | | Illinois Modified AASHTO T 152 | | | | | ASTM C 231 | | | | | |
|  | | | | | | | | | | | | | | | | |
| Frequency: | | a. Every 12 months according to Illinois Modified AASHTO T 152 (or every 3 months according to ASTM C 231, or  b. When there is an elevation change of more than 600 ft (183 m) from the location at which the test equipment is calibrated, or  c. When there is a question of calibration. | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | |
| Calibration Equipment: | | | | INTERNAL CALIBRATION CYLINDER | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | |
|  | | | | | | | | 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) | | | | | | | |  |  |  | | |  | |  |  |
| Clamps, funnel assembly, & petcocks work properly? (Y/N) | | | | | | | |  |  |  | | |  | |  |  |
| Are gasket and gauge in good condition? (Y/N) | | | | | | | |  |  |  | | |  | |  |  |
| Record bowl height (mm (in.)). | | | | | | | |  |  |  | | |  | |  |  |
| Record bowl diameter (mm (in.)). (0.75 to 1.25 times the height?) | | | | | | | |  |  |  | | |  | |  |  |
| Record effective volume of calibration cylinder (%).B | | | | | | | |  |  |  | | |  | |  |  |
| Record Calibration Point Reading (%).B | | | | | | | |  |  |  | | |  | |  |  |
| Is the air meter accurate? C (Y/N) | | | | | | | |  |  |  | | |  | |  |  |
| Is tamping rod tip hemispherical? (Y/N) | | | | | | | |  |  |  | | |  | |  |  |
| Record diameter of tamping rod and hemispherical tip.  (16 ± 2mm (5/8 ± 1/16 in.)) | | | | | | | |  |  |  | | |  | |  |  |
| Record tamping rod length. (Refer to test method for acceptable length, but 400 mm (16 in.) to 600 mm (24 in.) is typically acceptable.) | | | | | | | |  |  |  | | |  | |  |  |
| Record rubber mallet weight (mass).  (0.57 ± 0.23 kg (1.25 ± 0.50 lb)) | | | | | | | |  |  |  | | |  | |  |  |
|  | | | | | | | | | | | | | | | | |
| Name of Inspector/Comments: (For CBM\*: Supervisor shall initial each calibration following completion.) | | | | | | | | | | | | | | | | |
| # 1 |  | | | | | | | | | | | | | | | |
| # 2 |  | | | | | | | | | | | | | | | |
| # 3 |  | | | | | | | | | | | | | | | |
| # 4 |  | | | | | | | | | | | | | | | |
| # 5 |  | | | | | | | | | | | | | | | |
| # 6 |  | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | |
| \*CBM: Central Bureau of Materials | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | |
| 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) checked above shall have precedence over this calibration form.  B Effective volume of calibration cylinder = (calibration cylinder volume ÷ bowl volume) × 0.98 × 100 (Portland Cement Concrete Level I Technician Course manual, Appendix E)  C Refer to Portland Cement Concrete Level I Technician Course manual, Appendix E. | | | | | | | | | | | | | | | | |