

**Standard Method of Test for
Method of Verification of Hydrated Lime Weighing Systems
for Hot-Mix Asphalt**

SCDOT Designation: SC-T-78 (9/08)

1. SCOPE

- 1.1. This method applies to the verification of hydrated lime weighing systems for hot-mix asphalt.

2. SIGNIFICANCE AND USE

- 2.1. The purpose of this procedure is to check the lime rate to ensure that the lime rate meets SCDOT specifications to prevent asphalt mixtures from stripping.

3. APPARATUS

- 3.1. Four 50-pound test weights that are certified once a year by an authorized public official or scale servicer. Documentation of weight certifications shall be maintained in the field laboratory.

4. PROCEDURE

- 4.1. With the weigh pod empty, record the scale indicator reading on SCDOT Form 400.14.
- 4.2. Apply all four test weights and record the scale indicator reading. The display reading on the scale indicator is to be within ± 20 pounds of the actual weight when the four 50-pound weights (200 pounds) are attached to the empty weigh pod.
- 4.3. The weigh pod is to be loaded approximately half full with hydrated lime with four 50-pound weights attached. Record the scale indicator reading on Form 400.14 for verification.
- 4.4. Remove the four 50-pound weights one at a time and record the scale indicator reading on Laboratory Form 979. The scale indicator reading in the control room shall reflect the weight changes to within ± 5 pounds of the actual weight on the weigh pod.

5. CALCULATIONS

- 5.1. When performing the procedures in Section 4, the scale weight is subtracted from the actual calculated weight and its absolute value is compared to the allowable tolerance.

6. REPORT

- 6.1. The actual weight difference shall be within the allowable tolerance of ± 5 pounds for each 50-pound test weight removed. All data must be reported on SCDOT Form 400.05 – Daily Report of Asphalt Plant Inspection and calculations recorded on SCDOT Form 400.14 – Verification of Hydrated Lime Weighing Systems for Hot Mix Asphalt.