

Method of Test for Slump Loss of Portland Cement Concrete (Drilled Shaft)

1. Scope:

This test is for determining the slump loss of fresh concrete.

2. Apparatus:

- 2.1 Mold conforming to AASHTO T 119.
- 2.2 Tamping rod. A round smooth 5/8" steel rod with the tamping end rounded to a hemispherical tip of 5/8" diameter. The minimum length shall be 18".
- 2.3 Trowel, rubber mallet, small scoop or shovel, and a metal straight edge a minimum of 12 long.
- 2.4 Measuring tape capable of measuring to 1/4.
- 2.5 Plastic.
- 2.6 Air meter. (Type A or B)

3. Procedure:

- 3.1 The Contractor shall batch at least 1 yd³ and place it in a hole lined with plastic or a form configuration lined with plastic in order to prevent moisture loss through the ground or forms.

NOTE: The concrete shall be isolated from vibration for the duration of the test.

- 3.2 Obtain a sample of fresh concrete in accordance with SD 402.
- 3.3 Test the fresh concrete for initial slump in accordance with SD 404.
- 3.4 Test the fresh concrete for initial air content in accordance with SD 403.
- 3.5 Cover the concrete with plastic.
- 3.6 At two and four hours after batching, obtain a sample in accordance with SD 402 and test for slump in accordance with SD 404.

NOTE: Be sure to thoroughly mix the concrete prior to each test.

4. Report:

Report each slump test, initial air content and time each test was performed on a DOT-23.

5. References:

AASHTO T 119
SD 402
SD 403
SD 404
DOT-23