
Standard Practice for Sampling Asphalt Mixtures after Compaction (Obtaining Cores)

AASHTO Designation: R 67-20¹

Technical Subcommittee: 2c, Asphalt–Aggregate Mixtures

Release: Group 3 (July)



**American Association of State Highway and Transportation Officials
555 12th Street NW, Suite 1000
Washington, D.C. 20004**

Sampling Asphalt Mixtures after Compaction (Obtaining Cores)

AASHTO Designation: R 67-20¹



Technical Subcommittee: 2c, Asphalt–Aggregate
Mixtures

Release: Group 3 (July)

1. SCOPE

- 1.1. This method describes the process for removal of a core sample of compacted asphalt mixture from a pavement for laboratory testing. Cores may range in diameter from 2 in. to 12 in.
- 1.2. *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*

2. REFERENCED DOCUMENT

- 2.1. *ASTM Standard:*
- D3549, Standard Test Method for Thickness or Height of Compacted Asphalt Mixture Specimen

3. SIGNIFICANCE

- 3.1. Samples obtained in accordance with the procedure may be used for measuring asphalt mixture thickness, density, and other testing.

4. APPARATUS

- 4.1. *Core Drilling Machine*—A power-driven core drilling machine shall be used to obtain the sample. The device shall be capable of obtaining a core to the full depth of the asphalt mixture sampled and shall consist of a rigid frame or platform such that the core barrel can be maintained perpendicular to the pavement surface during the drilling process. The core drilling machine must be of sufficient horsepower and have the ability to reach a sufficient depth to minimize distortion of the compacted cores of asphalt mixture.
- 4.2. *Core Drill Bit*—The cutting edge of the core drill bit shall be made of hardened steel or other suitable material with diamond chips embedded in the metal or as recommended by the core drill bit manufacturer in order to drill through the compacted asphalt mixture cleanly. The inside diameter of the core barrel shall be as specified.