
Standard Practice for Grinding the Ends of Cylindrical Concrete Specimens

AASHTO Designation: PP 89-19 (2022)¹

Technically Revised: 2019

Reviewed but Not Updated: 2022

Technical Subcommittee: 3c, Hardened Concrete



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1. SCOPE

- 1.1. This practice describes the process of grinding the ends of cylindrical concrete specimens to a planar surface in order for them to be tested for compressive strength using [T 22M/T 22](#), [ASTM C39/C39M](#), or any other standard that permits grinding the ends of cylindrical concrete specimens to a planar surface prior to testing for compressive strength.
- 1.2. This practice is limited to automated or semi-automated mechanical wet-grinding processes that can accommodate the grinding of cylindrical concrete specimens in a consistent manner.
- 1.3. The values stated in SI units or inch-pound units are to be regarded separately as the standard. Within the text, the inch-pound units are shown in brackets. The values stated in each system are not exact equivalents; therefore, each system shall be used independently of the other. Combining values from the two systems may result in nonconformance with the standard.
- 1.4. *This standard may involve hazardous materials, operations, or equipment. 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.*
- Note 1**—The safety precautions given in the *Manual of Aggregate and Concrete Testing*, located in the Related Materials section of Volume 04.02 of the *Annual Book of ASTM Standards*, are recommended.

2. REFERENCED DOCUMENTS

- 2.1. *AASHTO Standards:*
- [R 39](#), Making and Curing Concrete Test Specimens in the Laboratory
 - [R 100](#), Making and Curing Concrete Test Specimens in the Field
 - [T 22M/T 22](#), Compressive Strength of Cylindrical Concrete Specimens
 - [T 24M/T 24](#), Obtaining and Testing Drilled Cores and Sawed Beams of Concrete
 - [T 231](#), Capping Cylindrical Concrete Specimens
- 2.2. *ASTM Standards:*
- [C31/C31M](#), Standard Practice for Making and Curing Concrete Test Specimens in the Field
 - [C39/C39M](#), Standard Test Method for Compressive Strength of Cylindrical Concrete Specimens
 - [C42/C42M](#), Standard Test Method for Obtaining and Testing Drilled Cores and Sawed Beams of Concrete