



Standard Practice for Selection, Removal, and Shipment of Manufactured Masonry Units and Masonry Specimens from Existing Construction¹

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1. Scope*

1.1 This practice covers the process of selection, removal, and shipment of masonry specimens from existing construction that are intended for testing. These specimens can be either individual masonry units or assemblages. Assemblages are a portion of existing masonry, typically consisting of masonry units, mortar, grout, reinforcing steel, collar joint, and masonry accessories. The specimens may be taken from single- or multiple-wythe construction, or portions thereof. This practice also covers procedures for reporting as part of this process.

1.2 The values stated in either SI units or inch-pound units are to be regarded separately as standard. The values stated in each system may not be exact equivalents; therefore, each system shall be used independently of the other. Combining values from the two systems may result in non-conformance with the standard.

1.3 *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 requirements prior to use.*

2. Referenced Documents

2.1 ASTM Standards:²

C1180 Terminology of Mortar and Grout for Unit Masonry

C1232 Terminology of Masonry

E122 Practice for Calculating Sample Size to Estimate, With Specified Precision, the Average for a Characteristic of a Lot or Process

¹ This practice is under the jurisdiction of ASTM Committee C15 on Manufactured Masonry Units and is the direct responsibility of Subcommittee C15.04 on Research.

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² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

3. Terminology

3.1 Definitions:

3.1.1 For definitions of terms used in this practice, refer to Terminologies C1180 and C1232.

4. Significance and Use

4.1 Masonry specimens are sometimes removed as part of an assessment of the condition of masonry construction. Such specimens are commonly prepared for shipment to a laboratory where the specimens are assessed with visual techniques, petrographic techniques, or standard test methods. The process of selecting, removing, and shipping the specimens can have an effect on test results. This practice provides procedures for selecting, removing, and shipping masonry specimens removed from existing construction.

4.2 The selection and removal processes described in this practice are primarily intended for walls. Selection and removal of masonry specimens from locations other than walls requires user judgment in order to obtain appropriate specimens.

4.3 This practice also covers reporting of the selection, removal, and shipping processes. This information allows interested parties to assess the impact of these processes on test results.

4.4 This practice does not address the use of test results conducted on removed masonry specimens. This practice does not determine whether the removed masonry materials met original specification requirements.

5. Selection and Removal

5.1 Selection of Test Samples:

5.1.1 *Visual Assessment*—Prior to selecting specimens for removal, perform a visual survey of the exposed surface to assess the in-place, undisturbed condition of the masonry wall and other related construction.

5.1.1.1 Record observations from the visual survey with photographs or drawings, or both, that represent the appearance of the masonry. Include sample locations identified in 5.2.

5.1.1.2 Conduct the visual assessment either over the whole construction or on a representative sample of the whole. Examine locations with different exposures.

*A Summary of Changes section appears at the end of this standard