



Designation: C 1532 – 02

## Standard Guide for Selection, Removal, and Shipment of Masonry Assemblage Specimens from Existing Construction<sup>1</sup>

This standard is issued under the fixed designation C 1532; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon ( $\epsilon$ ) indicates an editorial change since the last revision or reapproval.

### 1. Scope

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

1.2 The values stated in inch-pound units are to be regarded as the standard. The values given in parentheses are for information only.

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:

- C 43 Terminology of Structural Clay Products<sup>2</sup>
- C 1180 Terminology of Mortar and Grout for Unit Masonry<sup>2</sup>
- C 1209 Terminology of Concrete Masonry Units and Related Units<sup>2</sup>
- C 1232 Terminology of Masonry<sup>2</sup>
- C 1420 Guide for Selection, Removal, and Shipment of Manufactured Masonry Units Placed in Usage<sup>2</sup>
- E 122 Practice for Calculating Sample Size to Estimate, with a Specific Tolerable Error, the Average for Characteristics of a Lot or Process<sup>3</sup>

### 3. Terminology

#### 3.1 Definitions:

3.1.1 For definitions of other terms used in this guide, refer to Terminologies C 43, C 1180, C 1209, and C 1232.

### 4. Significance and Use

4.1 Assemblages of masonry 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 guide provides procedures for selecting, removing, and shipping masonry assemblage specimens removed from existing construction.

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

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

4.5 If only individual units are to be removed from an existing construction, refer to Guide C 1420 as a guide.

### 5. Selection and Removal

#### 5.1 Selection of Test Samples:

5.1.1 *Visual Assessment*—Prior to selecting assemblages 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, such as walls exposed to rain and walls protected from rain.

5.1.2 *Sampling*—Select specimens representative of the entire masonry construction or a portion thereof. Consider aspects such as the orientation of the units of the proposed assemblage specimens (for example, stretcher, header, or

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<sup>2</sup> *Annual Book of ASTM Standards*, Vol 04.05.

<sup>3</sup> *Annual Book of ASTM Standards*, Vol 14.02.