



Designation: C56 – 22

## Standard Specification for Structural Clay Nonloadbearing Tile<sup>1</sup>

This standard is issued under the fixed designation C56; 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 reappraisal. A superscript epsilon (ε) indicates an editorial change since the last revision or reappraisal.

*This standard has been approved for use by agencies of the U.S. Department of Defense.*

### 1. Scope\*

1.1 This specification covers structural clay nonloadbearing tile (partition, fireproofing, and furring). Tile intended for use in fireproofing structural members shall be of such sizes and shapes that they can be erected to completely cover the exposed surfaces of the members. Fireproofing tile intended for use in load-bearing masonry shall conform to Specification C34.

1.2 The property requirements of this specification apply at the time of purchase. The use of results from testing of tile extracted from masonry structures for determining conformance or non-conformance to the property requirements (Section 5) of this standard is beyond the scope of this specification.

1.3 Tile covered by this specification are manufactured from clay, shale, or similar naturally occurring substances and subjected to a heat treatment at elevated temperatures (firing). The heat treatment must develop sufficient fired bond between the particulate constituents to provide the strength and durability requirements of this specification. (See *firing* and *fired bond* in Terminology C1232.)

1.4 The text of this specification references notes and footnotes that provide explanatory material. These notes and footnotes (excluding those in tables and figures) shall not be considered as requirements of this specification.

1.5 The values stated in inch-pound units are to be regarded as standard. The values given in parentheses are mathematical conversions to SI units that are provided for information only and are not considered standard.

1.6 *This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.*

<sup>1</sup> This specification is under the jurisdiction of ASTM Committee C15 on Manufactured Masonry Units and is the direct responsibility of Subcommittee C15.02 on Brick and Structural Clay Tile.

Current edition approved Dec. 1, 2022. Published December 2022. Originally approved in 1924. Last previous edition approved in 2017 as C56 – 13(2017). DOI: 10.1520/C0056-22.

### 2. Referenced Documents

#### 2.1 ASTM Standards:<sup>2</sup>

C34 Specification for Structural Clay Loadbearing Wall Tile  
C67/C67M Test Methods for Sampling and Testing Brick and Structural Clay Tile  
C1232 Terminology for Masonry

### 3. Terminology

3.1 *Definitions*—For definitions relating to structural clay nonload-bearing wall tile, refer to Terminology C1232.

### 4. Classification

4.1 One grade of tile is covered, designated Grade NB.

### 5. Physical Properties

5.1 Structural clay nonloadbearing tile, when tested in accordance with Test Methods C67/C67M, shall conform to the following requirements for absorption:

| Grade | Absorption by 1-h Boiling, <sup>4</sup> % |
|-------|-------------------------------------------|
|       | Individual Maximum                        |
| NB    | 28                                        |

<sup>4</sup>The range in percentage absorption for tile delivered to any one job shall be not more than 12.

### 6. Dimensions and Permissible Variations

6.1 No overall dimension shall vary more than 3 % over or under the specified dimension for any form or size of tile. See Note 1.

NOTE 1—Purchasers and designers should ascertain the type and size of tile, modular or non-modular, available in the locality under consideration and should specify accordingly, stating the size and type represented by the available tile.

Modular sizes are designated by the specified nominal dimensions which are equal to the actual manufactured dimensions plus the thickness of one mortar joint, not to exceed ½ in. (12.7 mm). For example, if the modular, specified, or nominal dimensions of a unit are 4 by 8 by 12 in. (102 by 203 by 305 mm) the actual manufactured dimensions may be 3½ by 7½ by 11½ in. (114.7 by 215.7 by 317.7 mm).

<sup>2</sup> For referenced ASTM standards, visit the ASTM website, [www.astm.org](http://www.astm.org), or contact ASTM Customer Service at [service@astm.org](mailto:service@astm.org). For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

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