



Designation: C212 – 17

Standard Specification for Structural Clay Facing Tile¹

This standard is issued under the fixed designation C212; 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 (ε) indicates an editorial change since the last revision or reapproval.

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 loadbearing facing tile. Structural facing tile are tile designed for use in interior and exterior unplastered walls and partitions of buildings.

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 nonconformance to the property requirements (Section 6) 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 which provide explanatory material. These notes and footnotes (excluding those in tables and figures) shall not be considered as requirements of the 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.*

¹ 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.

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2. Referenced Documents

2.1 *ASTM Standards*:²

C67 Test Methods for Sampling and Testing Brick and Structural Clay Tile
C1232 Terminology of Masonry

3. Terminology

3.1 *Definitions*—For definitions relating to structural clay facing tile, refer to Terminology C1232.

4. Classification

4.1 Two types of structural clay facing tile are covered, as follows:

4.1.1 *Type FTX*—Smooth-face tile suitable for general use in exposed exterior and interior masonry walls and partitions, and adapted for use where tile low in absorption, easily cleaned, and resistant to staining are required, and where a high degree of mechanical perfection, narrow color range, and minimum variation in face dimensions are desired.

4.1.2 *Type FTS*—Smooth- or rough-texture face tile suitable for general use in exposed exterior and interior masonry walls and partitions and adapted for use where tile of moderate absorption, moderate variation in face dimensions, and medium color range are permitted, and where minor defects in surface finish, including small handling chips, are not objectionable.

4.2 Two classes of structural clay facing tile are covered, as follows:

4.2.1 *Standard*—Tile suitable for general use in exterior or interior masonry walls and partitions.

4.2.2 *Special Duty*—Tile suitable for general use in exterior or interior masonry walls and partitions, and designed to have superior resistance to impact and moisture transmission and to support greater lateral and compressive loads than standard tile construction.

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.

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