



Designation: C530 – 23

Standard Specification for Structural Clay Nonloadbearing Screen Tile¹

This standard is issued under the fixed designation C530; 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.

1. Scope*

1.1 This specification covers unglazed, structural clay, non-loadbearing screen tile.

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 specification is beyond the scope of this standard.

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.*

2. Referenced Documents

2.1 *ASTM Standards*:²

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.

Current edition approved March 1, 2023. Published March 2023. Originally approved in 1963. Last previous edition approved in 2017 as C530– 13(2017). DOI: 10.1520/C0530-23.

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.

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 nonloadbearing screen tile, refer to Terminology C1232.

4. Classification

4.1 Three grades of screen tile, based on relative durability, are covered as follows:

NOTE 1—Screen walls present many more exposed surfaces than other brick or tile walls, the question of durability and selection of grade may be more critical in the screen walls. For this reason, these requirements are more conservative than for brick.

4.1.1 *Grade SE*—Screen tile exhibiting a uniformly high resistance to disintegration by weathering or by freezing or thawing in the presence of moisture.

4.1.2 *Grade ME*—Screen tile exhibiting a moderate and somewhat nonuniform resistance to weathering. Grade ME tile exhibit good durability in areas of mild to moderate exposure but may not be adequate for severe exposures.

4.1.3 *Grade NE*—Screen tile for interior use (no exposure to rain or freezing).

4.1.4 Grade SE tile may be accepted in lieu of Grades ME or NE. Grade ME tile may be accepted in lieu of Grade NE.

4.2 Two types of screen tile, based on dimensional tolerances, are covered as follows:

4.2.1 *Type STX*—Screen tile having a high degree of mechanical perfection and minimum size variation.

4.2.2 *Type STA*—Screen tile exhibiting characteristic architectural effects resulting from a larger degree of size variation than obtainable with Type STX.

5. Ordering Information

5.1 Orders for material under this specification shall include the following information:

5.1.1 *Grade (4.1)*—When grade is not specified, the requirements for Grade ME shall govern.

5.1.2 *Type (4.2)*—When type is not specified, the requirements for Type STA shall govern.

5.1.3 *Sizes and Shapes*—Specify in accordance with Section 7.

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