



## Standard Specification for Thin Veneer Brick Units Made From Clay or Shale<sup>1</sup>

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### 1. Scope \*

1.1 This specification covers thin veneer brick units made from clay, shale, fire clay, sand, or mixtures thereof, and fired to incipient fusion for use in adhered or fastened veneer applications. Three types of thin veneer brick units in each of two grades are covered. In this specification, the term thin veneer brick shall be understood to mean clay masonry unit with a maximum thickness of 1 $\frac{3}{4}$  in. (44.45 mm).

NOTE 1—Brick intended for paving should be specified under Specification C 902.

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

1.3 Brick 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 the specification. (See “firing” and “fired bond” in Terminology C 43.)

1.4 The values stated in inch-pound units are to be regarded as standard. The metric equivalents may be approximate.

1.5 The text of this standard 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 standard.

### 2. Referenced Documents

#### 2.1 ASTM Standards:

C 43 Terminology of Structural Clay Products<sup>2</sup>

C 67 Test Methods for Sampling and Testing Brick and Structural Clay Tile<sup>2</sup>

C 902 Specification for Pedestrian and Light Traffic Paving Brick<sup>2</sup>

E 835/E 835M Guide for Modular Coordination of Clay and Concrete Masonry Units<sup>3</sup>

<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 Clay Brick and Structural Clay Tile.

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

<sup>3</sup> Annual Book of ASTM Standards, Vol 04.07.

### 3. Grades

3.1 Two grades of thin veneer brick units are covered for exposure conditions to weather and are defined in Table 1 as Interior and Exterior.

### 4. Types

4.1 Three types of thin veneer brick units are covered as follows:

4.1.1 *Type TBS (Standard)*—Thin veneer brick for general use in masonry.

4.1.2 *Type TBX (Select)*—Thin veneer brick for general use in masonry where a higher degree of precision and lower permissible variation in size than permitted for Type TBS is required.

4.1.3 *Type TBA (Architectural)*—Thin veneer brick for general use in masonry selected to produce characteristic architectural effects resulting from nonuniformity in size and texture of the individual units.

4.2 When the type is not specified, the requirements for Type TBS will govern.

### 5. Physical Properties

5.1 *Durability*—The thin veneer brick shall conform to the physical requirements in Table 1 for the grade specified. When the grade is not specified, the requirements for Grade Exterior shall govern. If the water absorption of each unit is less than 8.0 % after submersion in cold water for 24 h, the requirements for saturation coefficient shall be waived. If exterior or interior grade thin veneer brick are intended for use on interiors only, the requirements for water absorption (5-h boiling) and for saturation coefficient for interior grade in Table 1 shall govern.

5.2 *Freezing and Thawing*—The requirements specified in 5.1 for water absorption (5-h boiling) and saturation coefficient shall be waived provided a sample of 5 typical exterior grade thin veneer brick, meeting all other requirements, complies with the following requirements when subjected to 50 cycles of the freezing-and-thawing test:

5.2.1 *Grade Exterior: Weight Loss Requirement*—Not greater than 0.5 % loss in dry weight of any individual unit.

5.2.2 *Grade Exterior: Breakage Requirement*—No individual unit separates into two or more significant pieces.

5.2.3 *Grade Exterior: Cracking Requirement*—No individual unit develops a crack that exceeds, in length, the unit's least dimension.

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