



Designation: ~~C410-60 (Reapproved 2003)~~ Designation: C 410 – 08

Standard Specification for Industrial Floor Brick¹

This standard is issued under the fixed designation C 410; 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 brick made from clay or shale or mixtures thereof and are suitable for surfacing industrial floors. Ceramic shapes known as quarry tile are not covered by this specification. Four types of industrial floor brick are covered (Note 1):

1.1.1 *Type T*—For use where a high degree of resistance to thermal and mechanical shock is required but low absorption is not required.

1.1.2 *Type H*—For use where resistance to chemicals and thermal shock are service factors but low absorption is not required.

1.1.3 *Type M*—For use where low absorption is required. Brick of this type are normally characterized by limited mechanical (impact) shock resistance but are often highly resistant to abrasion.

1.1.4 *Type L*—For use where minimal absorption and a high degree of chemical resistance are required. Brick of this type are normally characterized by very limited thermal and limited mechanical (impact) shock resistance but are highly resistant to abrasion.

NOTE 1—*Discussion of Types of Floor Brick*—The four types of brick included in this specification are designed to cover the diverse needs of many industries for floor units. Recognizing that the requirements of primary aluminum producers for floor brick are quite different from those of chemical manufacturers, and similarly, that the needs of a builder for brick with which to pave an airport terminal building may vary considerably from those of food processing plants, for example, a minimum of four brick types has been deemed necessary. The factors of modulus of rupture, water absorption, and chemical resistance have been selected as the basis for the classification system.

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

2. Referenced Documents

2.1 *ASTM Standards:*²

C 67 Test Methods for Sampling and Testing Brick and Structural Clay Tile

C 279 Specification for Chemical-Resistant Masonry Units C410-08

3. Physical Properties

3.1 Brick shall conform to the physical requirements for the type specified as prescribed in Table 1.

4. Sizes

4.1 The sizes of brick shall be as specified by the purchaser. The maximum permissible variations in dimensions of individual units shall not exceed those given in Table 2.

5. Warpage

5.1 Tolerances for deviation of face or edges of individual brick from a plane surface and from a straight line, respectively, shall not exceed the maximum values specified in Table 3.

6. Texture

6.1 The texture of the finished surface that will be exposed when in place shall conform to an approved sample consisting of not less than four bricks, each representing the texture desired.

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 June 10, 2003. Published July 2003. Originally approved in 1957. Last previous edition approved in 1997 as C410-60(1997).

Current edition approved June 1, 2008. Published June 2008. Originally approved in 1957. Last previous edition approved in 2003 as C 410 – 60 (2003).

² Annual Book of ASTM Standards, Vol 04.05.

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.