



Designation: C909 – 93 (Reapproved 2005)

## Standard Practice for Dimensions of a Modular Series of Refractory Brick and Shapes<sup>1</sup>

This standard is issued under the fixed designation C909; 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 ( $\epsilon$ ) indicates an editorial change since the last revision or reapproval.

### 1. Scope

1.1 This practice covers the dimensions for rectangular and tapered brick in common usage in the United States.

1.2 The dimensions are modular based on 38 mm as the basic module as described in Practice C861.

### 2. Referenced Documents

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

C861 Practice for Determining Metric Dimensions of Stan-

<sup>1</sup> This practice is under the jurisdiction of ASTM Committee C08 on Refractories and is the direct responsibility of Subcommittee C08.92, The Joseph E. Kopanda Subcommittee for Editorial, Terminology and Classification.

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<sup>2</sup> 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.

dard Series Refractory Brick and Shapes

IEEE/ASTM SI 10 American National Standard for Use of the International System of Units (SI): The Modern Metric System

### 3. Significance and Use

3.1 The dimensions listed in this practice represent the dimensions of rectangular and tapered refractory shapes manufactured and used in the United States.

3.2 The modular concept of dimensions permits a versatile arrangement of bonding during the construction of masonry units.

### 4. Standard Dimensions

4.1 Table 1 lists the standard nominal dimensions for straight, split, soap, arch, wedge, and key brick.

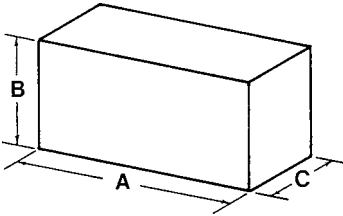
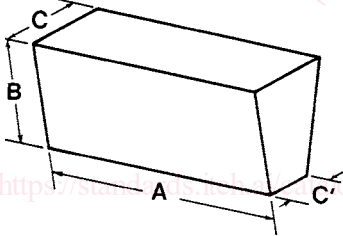
4.2 Table 2 lists the standard nominal dimensions for key brick for oxygen steelmaking furnaces.

[ASTM C909-93\(2005\)](https://standards.iteh.ai/catalog/standards/sist/9f71dae6-a093-4ad9-830e-f7cf9ac2238b/astm-c909-932005)

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TABLE 1 Standard Dimensions, mm

NOTE—It is recognized there are brick sizes, designated by the International Standards Organization, whose dimensions closely approximate some of the shapes shown in Table 1.

Name	A	B	B'	C	C'	Name	A	B	B'	C	C'
											
Straight 64mm	228	114		64		Straight 76 mm	228	114		76	
	228	152		64			228	152		76	
	228	171		64			228	171		76	
	228	228		64			228	228		76	
	304	114		64			304	114		76	
	342			64			342			76	
	342	114		64			342	114		76	
	342	152		64			342	152		76	
Split						Split					
						228	114		51		
						228	114		38		
						228	114		32		
						228	114		25		
Soap 64 mm						Soap 76 mm					
						228	57		76		
						228	89		76		
											
Arch 64 mm	228	114		64	54	Arch 64 mm	228	114		76	70
	228	114		64	44		228	114		76	64
	228	114		64	25		228	114		76	51
	228	114		64	25		228	114		76	25
	228	171		64	57		228	228		776	73
	228	171		64	44		228	228		76	70
	228	228		64	57		228	228		76	64
	228	228		64	48		228	228		76	51
	228	228		64	38		228	228		76	51
	228	228		64	57		304	114		67	70
	228	228		64	48		304	114		76	64
	228	228		64	38		304	114		76	51
	304	114		64	54		342	114		76	70
	304	114		64	44		342	114		76	64
	304	114		64	25		342	114		76	51
	304	114		64	25		342	114		76	25
	342	114		64	54		342	152		76	70
	342	114		64	44		342	152		76	64
	342	114		64	25		342	152		76	51