



Designation: C909 – 93 (Reapproved 2010)

Standard Practice for Dimensions of a Modular Series of Refractory Brick and Shapes¹

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 (ϵ) 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*:²

¹ 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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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.

C861 Practice for Determining Metric Dimensions of Standard 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.

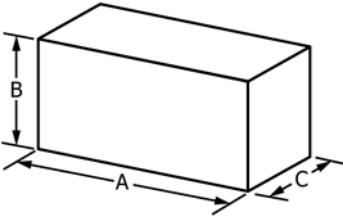
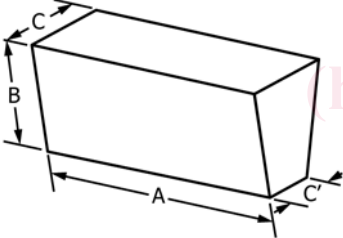
4.2 Table 2 lists the standard nominal dimensions for key brick for oxygen steelmaking furnaces.

[ASTM C909-93\(2010\)](https://standards.iteh.ai/catalog/standards/sist/51493430-3167-4f30-bf21-346213554aac/astm-c909-932010)

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TABLE 1 Standard Dimensions, mm

NOTE 1—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						342						
	342	114		64			342	114		76			
		152		64			342	152		76			
	Split							Split	228	114		51	
									228	114		38	
							228	114		32			
							228	114		25			
Soap 64 mm	228	57		64		Soap 76 mm	228	57		76			
	228	89		64									
 Arch 64 mm	228	114		64	54	228	114		76	70			
	228	114		64	44	228	114		76	64			
	228	114		64	25	228	114		76	51			
						228	114		76	25			
	228	171		64	57	228	228		776	73			
	228	171		64	44	228	228		76	70			
						228	228		76	64			
						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			
						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			