

**TABLE 1003.1  
SUMMARY OF REQUIREMENTS FOR MASONRY FIREPLACES AND CHIMNEYS**

<b>NOTE: This table provides a summary of major requirements for the construction of masonry chimneys and fireplaces. Letter references are to Figure 1003.1, which shows examples of typical construction. This table does not cover all requirements, nor does it cover all aspects of the indicated requirements. For the actual mandatory requirements of the code, see the indicated section of text.</b>					
ITEM	LETTER	REQUIREMENTS			
		Summary	See Section		
Hearth and hearth extension thickness	A	4-inch minimum thickness for hearth.	1003.9.1		
		2-inch minimum thickness for hearth extension.	1003.9.2		
Hearth extension (each side of opening)	B	8 inches for fireplace opening less than 6 square feet.	1003.10		
		12 inches for fireplace opening greater than or equal to 6 square feet.			
Hearth extension (front of opening)	C	16 inches for fireplace opening less than 6 square feet.	1003.10		
		20 inches for fireplace opening greater than or equal to 6 square feet.			
Hearth and hearth extension reinforcing	D	Reinforced to carry its own weight and all imposed loads.	1003.9		
Firebox dimensions	E	20-inch minimum firebox depth.	1003.11		
		12-inch minimum firebox depth for Rumford fireplaces.			
Thickness of wall of firebox	F	10 inches solid masonry or 8 inches where firebrick lining is used.	1003.5		
Distance from top of opening to throat		8 inches minimum.	1003.7		
Smoke chamber	H	6 inches lined, 8 inches unlined.	1003.8		
Wall thickness					
Dimensions		Not taller than opening width, walls not inclined more than 45 degrees from vertical for prefabricated smoke chamber linings or 30 degrees from vertical for corbeled masonry.	1003.8.1		
chimney vertical reinforcing <sup>a</sup>	I	Four No. 4 full-length bars for chimney up to 40 inches wide. Add two No. 4 bars for each additional 40 inches or fraction of width, or for each additional flue.	1003.3.1		
Chimney horizontal reinforcing	J	1/4-inch ties at each 18 inches, and two ties at each bend in vertical steel.	1003.3.2		
Fireplace lintel	K	Noncombustible material with 4-inch load-bearing length of each side of opening.	1003.7		
Chimney walls with flue lining	L	4-inch-thick solid masonry with liner.	1001.7;		
		1/2-inch grout or airspace between liner and wall.	1001.9		
Effective flue area (based on area of fireplace opening and chimney)	M	See Section 1001.12.	1001.12		
Clearances	N	2 inches interior, 1 inch exterior.	1001.15		
From chimney					
From fireplace				2 inches front, back or sides.	1003.12
Combustible trim or materials				6 inches from opening.	1003.13
Above roof		3 feet above roof penetration, 2 feet above part of structure within 10 feet	1001.6		
Anchorage <sup>a</sup>	O	3/16 inch by 1 inch.	1003.4		
Strap					
Number				two.	
Embedment into chimney				12 inches hooked around outer bar with 6-inch extension.	
Fasten to		Four joists.			
Bolts		Two 1/2-inch diameter.			
Rooting	P	12-inch minimum.	1003.2		
Thickness					
Width		5 inches each side of fireplace wall.			

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 square foot = 0.0929 m<sup>2</sup>, 1 degree = 0.01745 rad.

<sup>a</sup> Required only in Seismic Zones 3 and 4.