



For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm.

FIGURE 1001.1
FIREPLACE AND CHIMNEY DETAILS

CHIMNEYS AND FIREPLACES

TABLE 1001.1
SUMMARY OF REQUIREMENTS FOR MASONRY FIREPLACES AND CHIMNEYS

ITEM	LETTER ^a	REQUIREMENTS
Hearth slab thickness	A	4"
Hearth extension (each side of opening)	B	8" fireplace opening < 6 square feet. 12" fireplace opening ≥ 6 square feet.
Hearth extension (front of opening)	C	16" fireplace opening < 6 square feet. 20" fireplace opening ≥ 6 square feet.
Hearth slab reinforcing	D	Reinforced to carry its own weight and all imposed loads.
Thickness of wall of firebox	E	10" solid brick or 8" where a firebrick lining is used. Joints in firebrick 1/4" maximum.
Distance from top of opening to throat	F	8"
Smoke chamber wall thickness Unlined walls	G	6" 8"
Chimney Vertical reinforcing ^b	H	Four No. 4 full-length bars for chimney up to 40" wide. Add two No. 4 bars for each additional 40" or fraction of width or each additional flue.
Horizontal reinforcing	J	1/4" ties at 18" and two ties at each bend in vertical steel.
Bond beams	K	No specified requirements.
Fireplace lintel	L	Noncombustible material.
Chimney walls with flue lining	M	Solid masonry units or hollow masonry units grouted solid with not less than 4-inch nominal thickness.
Distances between adjacent flues	—	See Section 1003.13.
Effective flue area (based on area of fireplace opening)	P	See Section 1003.15.
Clearances Combustible material Mantel and trim Above roof	R	See Sections 1001.11 and 1003.18. See Section 1001.11, Exception 4. 3' at roofline and 2' at 10'.
Anchorage ^b Strap Number Embedment into chimney Fasten to Bolts	S	3/16" × 1" Two 12" hooked around outer bar with 6" extension. 4 joists Two 1/2" diameter.
Footing Thickness Width	T	12" min. 6" each side of fireplace wall.

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Note: This table provides a summary of major requirements for the construction of masonry chimneys and fireplaces. Letter references are to Figure 1001.1, 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.

- a. The letters refer to Figure 1001.1.
- b. Not required in Seismic Design Category A, B or C.