

FIGURE 4.2(a) Chimney or Vent Termination Less Than 10 ft (3.1 m) from Ridge, Wall, or Parapet.

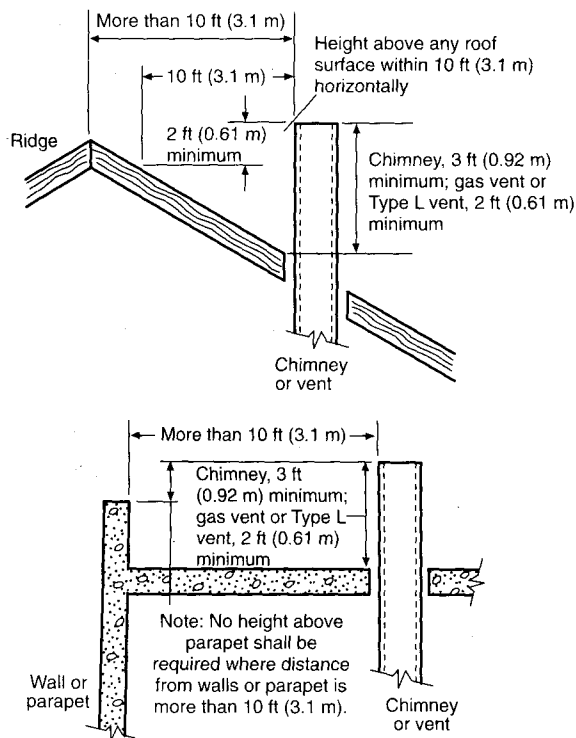


FIGURE 4.2(b) Chimney or Vent Termination More Than 10 ft (3.1 m) from Ridge, Wall, or Parapet.

4.5.2 Lining Support. Lining made of castable or plastic refractories shall be secured to the supporting walls by anchors made of corrosion-resistant steel capable of supporting the refractory load at 1500°F (816°C).

4.5.3 Space Surrounding Liner or Vent. The remaining space surrounding a chimney liner, gas vent, special gas vent, or plastic piping installed within a chimney flue shall not be used to vent another appliance.

4.6 Caps and Spark Arresters for Chimneys and Vents.

4.6.1 Design. Chimney or vent caps, where required for the termination of chimneys or vents, shall be designed to prevent the entry of rain, snow, and birds and other animals.

4.6.2 Rain Cap Height. The minimum distance from the underside of an unlisted rain cap to the top of covered flues shall be the lesser dimension of the width or depth of the covered flue. Where more than one flue is covered, the lesser dimension of the highest flue shall be used.

4.6.3 Screening. Screening material attached to chimney or vent caps to prevent the entry of animals and insects shall not adversely affect the chimney or vent draft.

4.6.4 Spark Arresters.

4.6.4.1 Spark arresters, where required by the AHJ for chimneys attached to solid fuel-burning equipment, shall meet the following requirements:

- (1) The net free area of the arrester shall be not less than three times the net free area of the outlet of the chimney flue it serves.
- (2) The arrester screen shall have heat and corrosion resistance equivalent to 19 gauge [0.041 in. (1.04 mm)] galvanized steel or 24 gauge [0.024 in. (0.61 mm)] stainless steel.
- (3) Openings shall not allow the passage of spheres having a diameter larger than ½ in. (12.7 mm) or block the passage of spheres having a diameter of less than ⅜ in. (9.5 mm).
- (4) The spark screen shall be accessible for cleaning, and the screen or chimney cap shall be removable to allow cleaning of the chimney flue.

4.6.4.2 Where part of a listed chimney termination system, spark arresters shall be constructed and installed in accordance with the listing.

Chapter 5 Selection of Chimney and Vent Types

5.1 Chimney Types.

5.1.1 Selection. Chimney selection shall be limited to three basic chimney types: factory-built, masonry, and unlisted metal [see Figure 5.1.1(a) through Figure 5.1.1(c)].

5.1.2 Application. Each basic chimney type is defined in Chapter 3, and the application of each is determined by Table 5.2.2.1, with specific construction or installation requirements in Chapters 6, 7, and 8.

5.2 Chimney or Vent Selection.

5.2.1 General. The selection of a chimney or vent shall be based on the following:

- (1) Type of appliance connected thereto
- (2) Fuel used by the appliance
- (3) Temperature of the flue gases at the appliance outlet
- (4) Pressure within the chimney or vent