

FIGURE 7.8.2.1 Upblast Fan Clearances.

7.8.2.2* Fans shall be provided with safe access and a work surface for inspection and cleaning.

7.8.3 Wall Terminations. Wall terminations shall be arranged with or provided with the following properties:

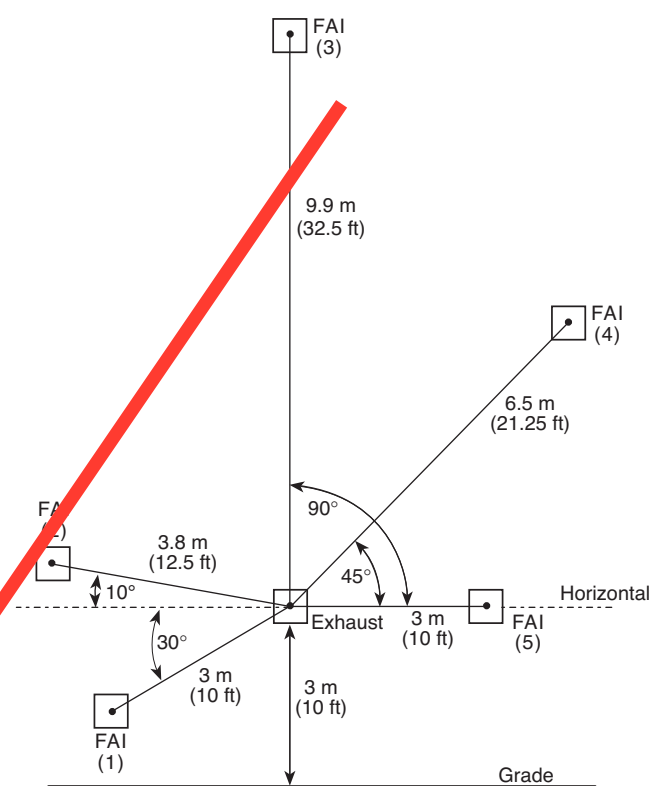
- (1) Through a noncombustible wall with a minimum of 10 ft (3 m) of clearance from the outlet to adjacent buildings, property lines, grade level, combustible construction, electrical equipment or lines, and with the closest point of any air intake or operable door or window at or below the plane of the exhaust termination.
- (2) The closest point of any air intake or operable door or window above the plane of the exhaust termination shall be a minimum of 3 m (10 ft) in distance, plus 76 mm (3 in.) for each 1 degree from horizontal, the angle of degree being measured from the center of the exhaust termination to the center of the air intake or operable door or window, as indicated in Figure 7.8.3.
- (3) A wall termination in a secure area shall be permitted to be at a lower height above grade if acceptable to the authority having jurisdiction.
- (4) The exhaust flow directed perpendicularly outward from the wall face or upward.
- (5) All the ductwork pitched to drain the grease back into the hood(s) or with a drain provided to bring the grease back into a container within the building or into a remote grease trap.
- (6) A listed grease duct complying with Section 7.4 or other ducts complying with Section 7.5.
- (7) An approved fan, provided it meets the requirements of 7.8.3(5) and of 8.1.1 or 8.1.3.

7.8.4* Rooftop Terminations Through Combustible or Limited-Combustible Walls.

7.8.4.1 Ductwork that exits a building through a combustible or limited-combustible wall to terminate above the roof line shall have wall protection provided in accordance with Section 4.2.

7.8.4.2 Where the ductwork exits the building, the opening shall be sealed and shall include a weather-protected vented opening.

7.8.4.3 Where the ductwork exits through a rated wall, the penetration shall be protected in accordance with 4.4.1.



Notes:

1. Fresh air intake (FAI) applies to any air intake, including an operable door or window.
2. Examples:
 - (a) FAIs 1 and 5 are on the same plane of exhaust fan or lower: 3 m (10 ft) min. between closest edges.
 - (b) FAIs 2, 3, and 4 are above the plane of exhaust fan: 3 m + 76 mm (10 ft + 0.25 ft) per degree between closest edges.

FIGURE 7.8.3 Exhaust Termination Distance from Fresh Air Intake (FAI) or Operable Door or Window.

Chapter 8 Air Movement

8.1 Exhaust Fans for Commercial Cooking Equipment.

8.1.1* Upblast Exhaust Fans.

8.1.1.1 Approved upblast fans with motors surrounded by the airstream shall be hinged, supplied with flexible weatherproof electrical cable and service hold-open retainers, and listed for this use.

8.1.1.2 Installation shall conform to the requirements of Section 7.8.

8.1.1.3 Upblast fans shall have a drain directed to a readily accessible and visible grease receptacle not to exceed 3.8 L (1 gal).

8.1.2* In-Line Exhaust Fans.

8.1.2.1 In-line fans shall be of the type with the motor located outside the airstream and with belts and pulleys protected from the airstream by a greasetight housing.

8.1.2.2 In-line fans shall be connected to the exhaust duct by flanges securely bolted as shown in Figure 8.1.2.2(a) through Figure 8.1.2.2(d) or by a system specifically listed for such use.