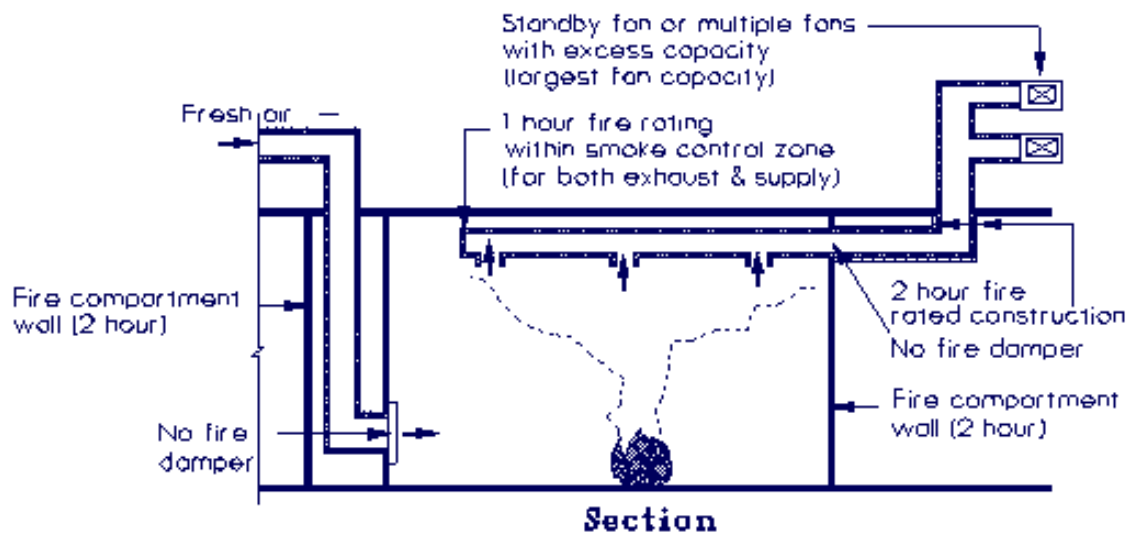


**2.15.1.5.** Fire dampers shall not be required in the following locations:

- a. In floors that do not require protected floor openings.
- b. In a duct system serving only one floor and used only for exhaust of air to the outside and not penetrating a wall or partition having a required fire resistance rating of 2 hours or more or passing entirely through the system and contained within its own dedicated shaft. See **Figure 1.14.**
- c. Where branch ducts connect to enclosed exhaust risers in which the airflow is upward, and steel sub ducts at least 560 mm in length are carried up inside the riser at each inlet.



**Figure 1.14.: Penetrations of ventilation ducts for exhaust and supply air**

**2.15.2. Installation**

- 2.15.2.1.** Air-conditioning, heating, and ventilating ductwork and related equipment, including fire dampers, smoke dampers, combination fire and smoke dampers, and ceiling radiation dampers, shall be installed in accordance with **Chapter 10 of this Code, NFPA 90A or NFPA 90B**, Standard for the Installation of Warm Air Heating and Air-Conditioning Systems.