

15.2 Chute Intake Doors.

15.2.1 General Access Gravity Waste Chutes.

15.2.2 All chute intake doors into a waste chute shall be provided with a self-closing, positive latching and gasketed fire door assembly in accordance with 15.1.2. [82:6.2.3.3.1.1]

15.2.3 The fire door assembly shall be installed in accordance with its listing. [82:6.2.3.3.1.2]

15.2.4 The design and installation shall be such that no part of the frame or door projects into the chute. [82:6.2.3.3.1.3]

15.2.5 The area of each chute intake door shall be limited to one-third of the cross-sectional area of a square chute and 44 percent of the area of a round chute. [82:6.2.3.3.1.4]

15.3 Limited-Access Gravity Chutes.

15.3.1 All chute intake doors into a linen or waste chute shall be provided with a self-closing, positive-latching and gasketed fire door assembly in accordance with 15.1.2. [82:6.2.3.3.2.1]

15.3.2 The fire door assembly shall be installed in accordance with its listing. [82:6.2.3.3.2.2]

15.3.3 The design and installation shall be such that no part of the frame or door projects into the chute. [82:6.2.3.3.2.3]

15.3.4 A lock shall be provided for the chute intake door. [82:6.2.3.3.2.4]

15.3.5 The area of each waste chute intake door shall be limited to two-thirds of the cross-sectional area of the chute. [82:6.2.3.3.2.5]

15.3.6 The area of each linen chute intake door shall not exceed the cross-sectional area of the chute. [82:6.2.3.3.2.6]

15.4 Pneumatic Chute Intake Doors.

15.4.1 All full vacuum chute intake outer doors shall be provided with a gasketed, self-closing, positive-latching fire door assembly with a fire protection rating of not less than 1 hour. [82:6.3.3.2.1]

15.4.2 The door frame shall be installed onto the station and shall be set flush to the shaft wall. [82:6.3.3.2.2]

15.4.3 The width of the opening shall be permitted to be equivalent to the internal diameter of the chute, and the height shall be a maximum of one and a half times the diameter. [82:6.3.3.2.3]

15.4.4 Minimum door size for a waste or linen loading door shall be 457 mm (18 in.) and shall be side-hinged. [82:6.3.3.2.4]

Chapter 16 Access Doors

16.1 Doors.

16.1.1 General. This chapter shall cover the installation of both horizontal and vertical access doors in fire-rated walls, floors, and floor-ceiling or roof-ceiling assemblies.

16.1.2 Components.

16.1.2.1 An access door shall be an integral unit including the door, frame, hinges, latch, and closing device (where required) bearing a label that reads "Frame and Fire Door Assembly."

16.1.2.2 A vertical access door shall be permitted to have hinges that are not part of the labeled assembly, provided the hinges conform to Table 6.4.3.1.

16.1.2.3 Access doors shall be self-closing.

16.1.2.4 Access doors shall be self-latching.

16.1.2.4.1 A horizontal access door that does not open downward and that remains in place when an upward force of 1 lb/ft² (48 N/m²) is applied over the entire exposed surface of the door shall not be required to be self-latching.

16.1.2.5 Self-closing access doors that are intended to be used to allow a person to completely enter the concealed space behind the door shall be operable from the inside without the use of a key or tool.

16.1.2.6 Access doors shall be installed in accordance with their listing.

16.2 Types of Doors.

16.2.1 Horizontal Access Doors.

16.2.1.1 Door assemblies used in fire resistance-rated floor-ceiling or roof-ceiling assemblies shall be tested in the horizontal position in accordance with the procedures described in ASTM E119, *Standard Test Methods for Fire Tests of Building Construction and Materials* or ANSI/UL 263, *Standard for Fire Tests of Building Construction and Materials*, and shall be labeled as horizontal access doors.

16.2.1.2 A horizontal access door shall bear a label that includes the additional wording "For Horizontal Installation."

16.2.1.3 A horizontal access door shall be used in a fire resistance-rated floor-ceiling or roof-ceiling assembly only where it has been tested and listed for use as a component of the assembly.

16.2.1.4 Horizontal access doors shall not be required to be subject to the hose stream test.

16.2.2 Vertical Access Doors.

16.2.2.1 Vertical access doors shall have a fire protection rating of ¾ hour, 1 hour, or 1½ hours. (See Annex E.)

16.2.2.2 Vertical access doors shall be used only in walls.

16.2.2.3 Where the AHJ determines that a vertical access door is located in proximity to combustibles so that in a fire condition the door is likely to transmit heat to ignite the combustibles, the temperature rise on the unexposed face of the door shall not exceed 250°F (139°C) at the end of a 30-minute exposure to the standard fire test as described in NFPA 252.

16.2.2.3.1 Such an access door as described in 16.2.2.3 shall bear a label indicating a maximum temperature rise of 250°F (139°C).

16.2.2.4 Closing by means of gravity using top-hinging vertical access doors shall be permitted to meet the requirements for self-closing doors.

16.2.2.5 A vertical access door shall bear a label that includes the additional wording "For Vertical Installation."

16.2.3 Floor Fire Door Assemblies. Floor fire door assemblies shall be tested in accordance with the procedures described in NFPA 288.