

CHAPTER 14

FIREPLACES, SOLID FUEL-BURNING AND GAS ACCESSORY APPLIANCES

SECTION M-1401.0 GENERAL

M-1401.1 Scope: This chapter shall govern the design, installation, construction and repair of fireplaces, solid fuel-burning appliances and decorative gas appliances accessory to fireplaces. Crematories and incinerators shall comply with the provisions of Chapter 15.

M-1401.2 Hazardous locations: Fireplaces, solid fuel-burning appliances and decorative gas appliances accessory to fireplaces shall not be installed in hazardous locations.

SECTION M-1402.0 ROOM HEATERS

M-1402.1 General: Solid fuel-burning room heaters shall be tested in accordance with UL 1482 listed in Chapter 21.

SECTION M-1403.0 FACTORY-BUILT FIREPLACES

M-1403.1 General: Factory-built fireplaces shall be tested in accordance with UL 127 listed in Chapter 21. Fireplace stoves shall be tested in accordance with UL 737 listed in Chapter 21.

SECTION M-1404.0 MASONRY FIREPLACES

M-1404.1 Dimensions: The firebox of a masonry fireplace shall have a minimum depth of 20 inches (508 mm). The size of the chimney connection shall be a minimum cross-sectional area of 50 square inches (32258 mm²). The minimum cross-sectional area of the fireplace shall equal the cross-sectional area of the chimney connection.

M-1404.1.1 Rumford fireplaces: Rumford fireplaces shall be permitted provided that the depth of the fireplace is at least 12 inches (305 mm) and is at least one-third of the width of the fireplace opening; and that the throat is at least 12 inches (305 mm) above the lintel, and is at least 1/20th the cross-sectional area of the fireplace opening.

M-1404.2 Wall construction: Fireplace walls lined with a minimum of 2 inches of approved low-duty refractory brick shall have a minimum total thickness of 8 inches (203 mm) of solid masonry. Approved medium-duty fire-clay mortar or an equivalent shall be utilized with the low-duty refractory brick. Unlined fireplace walls shall be constructed of solid masonry having a minimum total thickness of 12 inches (305 mm).

M-1404.2.1 Extension of liners: The liner of the fireplace walls shall extend a minimum of 4 inches (102 mm) into the throat of the fireplace.

M-1404.2.2 Throat and smoke chamber: The walls of the throat and smoke chamber shall be constructed of solid masonry having a minimum total thickness of 8 inches (203 mm). The throat and smoke chamber walls are permitted to be reduced in thickness to 4 inches of solid masonry provided that such walls are lined with at least 1 inch of insulating refractory masonry so that the heat transferred through this wall is not more than the heat transferred through 8 inches (203 mm) of solid masonry.

M-1404.2.3 Heat exchangers: Gravity-fed heat exchangers installed in the walls of masonry fireplaces shall not reduce the total thickness of solid masonry.

M-1404.3 Foundation and hearth: The foundation of a fireplace shall be constructed of noncombustible material and shall conform to the requirements of the building code listed in Chapter 21. The hearth and hearth extension shall be constructed of solid masonry having a minimum thickness of 4 inches (102 mm).

M-1404.3.1 Hearth extension: The hearth shall extend a minimum of 16 inches (406 mm) beyond the face of the fireplace opening and a minimum of 8 inches (203 mm) on each side of the fireplace opening for fireplaces having an opening of less than 6 square feet (0.56 m²). The hearth of larger-sized fireplaces shall extend a minimum of 20 inches (508 mm) beyond the face of the fireplace opening and a minimum of 12 inches (305 mm) on each side of the fireplace opening. Combustible forms utilized during the construction of the hearth and hearth extension shall be removed.

M-1404.4 Clearance to combustibles: The exterior surface of fireplace walls shall have a minimum clearance of 4 inches (102 mm) to combustible materials. Combustible material, including framing and sheathing, shall have a minimum clearance of 2 inches (51 mm) from the exterior surface of smoke chamber walls. Combustible material attached to a fireplace face, such as trim and mantels, shall have a minimum clearance of 6 inches (152 mm) from a fireplace opening. Combustible material above and projecting more than 1 1/2 inches (38 mm) from a fireplace face shall have a minimum clearance of 12 inches (305 mm) above a fireplace opening.

M-1404.5 Opening to the chimney: Means shall be provided to shut off the opening to the chimney when the fireplace is not in operation.

Architectural
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CHAPTER 12

CHIMNEYS AND VENTS

SECTION M-1201.0 GENERAL

M-1201.1 Scope: This chapter shall govern the installation, maintenance, repair and approval of all chimneys, vents and connectors.

M-1201.2 Location: Chimney or vent termination openings shall be located a minimum of 10 feet (3048 mm) from the lot line unless otherwise approved.

M-1201.3 Size of chimney or vent: The size of the chimney or vent, in other than multiple connections and engineered systems, shall have a minimum area equal to the area of the appliance connection.

M-1201.4 Abandoned inlet openings: Abandoned inlet openings in chimneys and vents shall be closed by an approved method.

M-1201.5 Cutting or notching: A structural member shall not be cut, notched or pierced in excess of the limitations specified in the building code listed in Chapter 21, unless proven safe by a structural analysis.

SECTION M-1202.0 DEFINITIONS

M-1202.1 General: The following words and terms shall, for the purposes of this chapter and as stated elsewhere in this code, have the meanings shown herein.

Appliance (mechanical):

Appliance, high heat: Any appliance operating at higher temperatures than a medium-heat appliance.

Appliance, low heat: Any appliance in which the products of combustion at the point of entrance to the flue under normal operating conditions have a temperature of 1,000 degrees F. (538 degrees C.) or less.

Appliance, medium heat: Any appliance in which the products of combustion at the point of entrance to the flue under normal operating conditions have a temperature not greater than 2,000 degrees F. (1093 degrees C.).

Appliance, unvented: An appliance designed or installed in such a manner that the products of combustion are not conveyed by a vent or chimney directly to the outside atmosphere.

Appliance, vented: An appliance designed and installed in such a manner that all of the products of combustion are conveyed directly from the appliance to the outside atmosphere through an approved chimney or vent system.

Chimney: A primarily vertical enclosure containing one or more passageways.

Factory-built: A chimney that is factory made and labeled by an approved testing or inspection agency for the venting of gas appliances, gas incinerators and solid or liquid fuel burning appliances.

High-heat appliance type: An approved chimney for removing the products of combustion from fuel-burning, high-heat appliances producing combustion gases in excess of 2,000 degrees F. (1093 degrees C.) measured at the appliance fuel outlet.

Low-heat appliance type: An approved chimney for removing the products of combustion from fuel-burning, low-heat appliances producing combustion gases not in excess of 1,000 degrees F. (538 degrees C.) under normal operating conditions, but capable of producing combustion gases 1,400 degrees F. (760 degrees C.) during intermittent firing for periods up to 1 hour. All temperatures shall be measured at the appliance flue outlet.

Masonry: A field-constructed chimney of solid masonry units, stones or reinforced concrete.

Medium-heat appliance type: An approved chimney for removing the products of combustion from fuel-burning medium-heat appliances producing combustion gases not exceeding 2,000 degrees F. (1093 degrees C.) measured at the appliance flue outlet.

Metal: A field-constructed chimney made of metal.

Chimney connector: A pipe that connects a fuel-burning appliance to a chimney.

Chimney liner: The lining material of approved fire clay or other approved material.

Vent: A conduit or passageway for conveying products of combustion from fuel-fired appliances, or their vent connectors to the outside atmosphere.

Vent connector: The pipe that connects an approved fuel-burning appliance to a chimney or vent.

SECTION M-1203.0 WHERE REQUIRED

M-1203.1 General: Every fuel-burning appliance shall discharge the products of combustion to a vent, factory-built chimney, masonry chimney or metal chimney, except for appliances conforming to Section M-1203.2. The chimney or vent shall be designed for the type of appliance being vented.

M-1203.1.1 Special vent systems: Appliances that have been tested for utilization with a special vent system shall be vented in accordance with the manufacturer's installation instructions.

M-1203.2 Unvented appliances: A chimney or vent shall not be required for appliances that are tested for unvented operation. Unvented appliances shall be operated and installed in accordance with the manufacturer's installation instructions.

SECTION M-1204.0 VENT SYSTEM

M-1204.1 Approval: All vent systems shall bear the label of an approved agency. Type B and BW vents shall be tested in accordance with UL 441 listed in Chapter 21. Type L vents shall be tested in accordance with UL 641 listed in Chapter 21.

M-1204.2 Connection and size: Appliances shall be approved for connection to a vent system.

M-1204.3 Installation: Vent systems shall be installed and terminated in accordance with the manufacturer's installation instructions.

M-1204.3.1 Starting height: The vent system shall originate at a point that is convenient for the appliance installation.

M-1204.3.2 Protection of the vent system: Vent systems shall be protected from physical damage, except for the floor where the connecting appliance is located. Floor and ceiling penetrations shall be firestopped in accordance with the building code listed in Chapter 21.

SECTION M-1205.0 FACTORY-BUILT CHIMNEYS

M-1205.1 Approval: All factory-built chimneys shall bear the label of an approved agency. Factory-built chimneys for residential-type and building-heating appliances shall be tested in accordance with UL 103 listed in Chapter 21. Factory-built chimneys for medium-heat appliances shall be tested in accordance with UL 959 listed in Chapter 21.

M-1205.2 Installation: Factory-built chimneys shall be installed in accordance with the manufacturer's installation instructions.

M-1205.2.1 Starting height: The chimney shall originate at a point that is convenient for the appliance installation.

M-1205.2.2 Protection of the chimney: Factory-built chimneys shall be protected from physical damage, except for the floor where the connecting appliance is located. Floor and ceiling penetrations shall be firestopped in accordance with the building code listed in Chapter 21.

M-1205.2.3 Termination: Factory-built chimneys shall terminate outdoors above the roof of the building. Chimney outlets shall be located a minimum of 3 feet (914 mm) above the highest point that the chimney penetrates the roof. Chimney outlets shall be a minimum of 2 feet (610 mm) higher than any portion of the building within 10 feet (3048 mm).

M-1205.3 Connection: Factory-built chimneys for installation with closed combustion, wood-burning residential and low-heat appliances shall comply with the "Type HT" requirements of UL 103 listed in Chapter 21. Chimneys for factory-built fireplaces shall conform to UL 127 listed in Chapter 21. Factory-built chimneys for open combustion chamber free-standing fireplace

stoves conforming only to UL 737 in Chapter 21 shall utilize residential-type and building-heating appliance chimneys that conform to UL 103 listed in Chapter 21.

SECTION M-1206.0 MASONRY CHIMNEYS, GENERAL REQUIREMENTS

M-1206.1 Foundations: Masonry chimneys shall be supported on approved noncombustible foundations. The supports shall be independent of the building construction and the load shall be transferred to the ground.

M-1206.2 Structural design: Chimneys shall not support any structural load other than the weight of the chimney unless such chimneys are designed to act as supporting members. Chimneys shall be anchored laterally at the ceiling lines and at each floor line that is more than 6 feet (1829 mm) above grade.

M-1206.3 Corbeling: Masonry chimneys shall not be corbeled from a wall more than 6 inches (152 mm). A masonry chimney shall not be corbeled from a wall that is less than 12 inches (305 mm) in thickness, unless the chimney projects equally on each side of the wall. In the second story of a two-story building, corbeling of masonry chimneys on the exterior of the enclosing walls shall not exceed the exterior wall thickness. The maximum horizontal projection of each course of brick shall not exceed one-half of the height of the masonry unit and one-third of the thickness or depth of the masonry unit.

M-1206.4 Change in size or shape: Masonry chimneys shall not change in size or shape within 6 inches (152 mm) above or below any combustible floor, ceiling or roof component penetrated by the chimney.

M-1206.5 Offsets: Where a masonry chimney is constructed with a fire-clay flue liner surrounded by one wythe of masonry, the maximum offset shall be such that the centerline of the flue above the offset does not extend beyond the center of the chimney wall below the offset. Where the chimney offset is supported by masonry below the offset in an approved manner, the maximum offset limitations shall not apply. Each individual corbeled masonry course of the offset shall not exceed the projection limitations specified in Section M-1206.3.

M-1206.6 Cleanouts: All masonry chimneys, except chimneys serving fireplaces, shall be provided with an approved cleanout having a tight-fitting cover. Such cleanouts shall be installed at least 12 inches (305 mm) below the lowest chimney inlet opening.

M-1206.7 Firestopping: All spaces between chimneys and floors and ceilings through which chimneys pass shall be firestopped with noncombustible material. The firestopping of spaces between chimneys and wood joists, beams or headers shall be to a depth of 1 inch (25 mm), and shall only be placed on strips of metal or metal lath laid across the spaces between combustible material and the chimney.

SECTION M-1207.0 MASONRY CHIMNEYS FOR LOW-HEAT APPLIANCES

M-1207.1 Construction: Masonry chimneys for low-heat appliances shall be constructed of solid masonry units or reinforced concrete with walls not less than 4 inches (102 mm) thick or rubble stone masonry not less than 12 inches (305 mm) thick.

SECTION M-1210.0 METAL CHIMNEYS, GENERAL REQUIREMENTS

M-1210.1 Support: Metal chimneys shall be supported on approved *noncombustible* foundations. The supports shall be independent of the building construction and the load shall be transferred to the ground.

M-1210.2 Cleanouts: Cleanout openings shall be provided at the base of every metal chimney.

M-1210.3 Construction: Metal chimneys shall be riveted or welded. Chimneys shall be structurally supported and anchored to the building. Metal chimneys shall have a minimum thickness as specified in Table M-1210.3.

**Table M-1210.3
METAL CHIMNEY MINIMUM THICKNESS**

Area of chimney (square inches) ^a	Minimum nominal thickness (inches)
0 - 154	0.060 (No. 16 Manufacturers Standard Gage)
154 - 254	0.075 (No. 14 Manufacturers Standard Gage)
Greater than 254	0.135 (No. 10 Manufacturers Standard Gage)

Note a. 1 square inch = 645.16 mm².

SECTION M-1211.0 METAL CHIMNEYS FOR LOW-HEAT APPLIANCES

M-1211.1 Termination height: Metal chimneys for low-heat *appliances* shall terminate outdoors above the roof of the building. Chimney outlets shall be located a minimum of 3 feet (914 mm) above the highest point that the chimney penetrates the roof. Chimney outlets shall be a minimum of 2 feet (610 mm) higher than any portion of the building within 10 feet (3048 mm).

M-1211.2 Exterior clearances: Exterior metal chimneys shall be installed in accordance with Sections M-1211.2.1 through M-1211.2.3.

M-1211.2.1 Clearance to combustibles: Exterior metal chimneys that serve low-heat *appliances* shall have a minimum clearance of 6 inches (152 mm) to *combustible materials*.

M-1211.2.2 Clearance from other than combustible walls: Exterior metal chimneys over 18 inches (457 mm) in diameter shall have a minimum clearance of 4 inches (102 mm), and those 18 inches (457 mm) or less in diameter shall have a minimum clearance of 2 inches (51 mm) from a building wall of *noncombustible* construction.

M-1211.2.3 Clearance from window, door or walkway: An exterior metal chimney shall be a minimum of 24 inches (610 mm) from any door or window or from any walkway, unless insulated or shielded in an approved manner to prevent burns to persons coming into contact with the chimney.

M-1211.3 Interior clearances: Interior metal chimneys shall be installed as required in Sections M-1211.3.1 through M-1211.3.5.

M-1211.3.1 Enclosure: A metal chimney shall be enclosed in a fire-resistance rated shaft in accordance with the shaft requirements of the building code listed in Chapter 21.

M-1211.3.2 Access: The enclosure shall provide a minimum clear space of 12 inches (305 mm) on all sides of the chimney for inspection and repair.

M-1211.3.3 Openings: The enclosing walls shall be without openings, except doorways equipped with approved self-closing fire doors at various floor levels for inspection purposes.

M-1211.3.4 Clearance: Metal chimneys that serve low-heat *appliances* located in the same story as the connecting *appliances* shall have a minimum clearance of 18 inches (457 mm) to *combustible materials*. Such interior metal chimneys over 18 inches (457 mm) in diameter shall have a minimum clearance of 4 inches (102 mm), and such chimneys 18 inches (457 mm) or less in diameter shall have a minimum clearance of 2 inches (51 mm) from a building wall of *noncombustible* construction.

M-1211.3.5 Roof penetration: Metal chimneys passing through a roof constructed of *combustible material* shall be guarded by a ventilating thimble of approved corrosion-resistant metal, extending a minimum of 9 inches (229 mm) below and 9 inches (229 mm) above the roof construction, and of a size to provide a minimum 6-inch (152 mm) clearance on all sides of the chimney, or the *combustible material* in the roof construction shall be cut away so as to provide a minimum 18-inch (457 mm) clearance on all sides of the chimney with the opening closed up with *noncombustible material*.

SECTION M-1212.0 METAL CHIMNEYS FOR MEDIUM-HEAT APPLIANCES

M-1212.1 Lining: Metal chimneys for medium-heat *appliances* shall be lined with an approved medium-duty refractory brick, laid in an approved medium-duty fire-clay mortar. The minimum lining thickness shall be 2½ inches (635 mm) for chimneys wherein the greatest cross-sectional dimension is 18 inches (457 mm) or less, and the minimum lining thickness shall be 4½ inches (114 mm) laid on the 4½-inch (114 mm) bed for chimneys wherein the greatest cross-sectional dimension is more than 18 inches (457 mm). The lining shall start 2 feet (610 mm) or more below the lowest chimney connector entrance and shall extend to a minimum height of 25 feet (7620 mm) above the highest chimney connector entrance. Chimneys terminating 25 feet (7629 mm) or less above the highest chimney connector entrance shall be lined to the top.

M-1212.2 Termination height: Metal chimneys for medium-heat *appliances* shall extend a minimum of 10 feet (3048 mm) higher than any portion of any building within 25 feet (7620 mm).

M-1212.3 Exterior clearances: Exterior metal chimneys shall be installed in accordance with Sections M-1212.3.1 through M-1212.3.3.

M-1212.3.1 Clearance to combustibles: Exterior metal chimneys that serve medium-heat *appliances* shall have a minimum clearance of 24 inches (610 mm) to *combustible materials*.

M-1212.3.2 Clearance from other than combustible construction: Exterior metal chimneys over 18 inches (457 mm) in diameter shall have a minimum clearance of 4 inches (102 mm) from other than combustible construction.

M-1215.4.2 Vertical vents: Vertical vents shall terminate in accordance with the following requirements:

1. Where located adjacent to walkways, the termination of mechanical draft systems shall not be less than 7 feet (2134 mm) above the level of the walkway.
2. Vents shall terminate at least 3 feet (914 mm) above any forced air inlet located within 10 feet (3048 mm).
3. Where the vent termination is located below an adjacent roof structure, the termination point shall be located at least 3 feet (3048 mm) from such structure.
4. The vent shall terminate at least 4 feet (1219 mm) below, 4 feet (1219 mm) horizontally from, or 1 foot (305 mm) above any door, window or gravity air inlet for the building.
5. A vent cap shall be installed to prevent rain from entering the vent system.
6. The vent termination shall be located at least 3 feet (914 mm) horizontally from any portion of the roof structure.

SECTION M-1216.0 CONNECTORS

M-1216.1 Vent connector construction: Vent connectors shall be constructed of metal. The minimum nominal thickness of the connector shall be 0.019 inch (No. 28 Gage) for galvanized steel, 0.022 inch (No. 26 B & S Gage) for copper, and 0.020 inch (No. 24 B & S Gage) for aluminum.

M-1216.2 Chimney connector construction: Chimney connectors shall be constructed of metal. The minimum thickness of the connector shall conform to Table M-1216.2(1) for low-heat appliances and to Table M-1216.2(2) for medium- and high-heat appliances.

Connectors for low-heat appliances shall be of steel pipe having resistance to corrosion and heat not less than that specified in Table M-1216.2(1). Connectors for medium-heat appliances and high-heat appliances shall be of steel not less than the thickness specified in Table M-1216.2(2).

Table M-1216.2(1)
MINIMUM CHIMNEY CONNECTOR THICKNESS FOR
LOW-HEAT APPLIANCES

Diameter of connector (inches) ^a	Minimum nominal thickness (galvanized) (inches)
0 - 5	0.022 (No. 26 Gage)
6 - 9	0.028 (No. 24 B & S Gage)
10 - 16	0.034 (No. 22 Gage)
Greater than 16	0.064 (No. 16 Gage)

Note a. 1 inch = 25.4 mm.

Table M-1216.2(2)
MINIMUM CHIMNEY CONNECTOR THICKNESS FOR
MEDIUM- AND HIGH-HEAT APPLIANCES

Area (square inches) ^a	Equivalent round diameter (inches) ^a	Minimum nominal thickness (inches)
0 - 154	0 - 14	0.060 (No. 16 Manufacturers Standard Gage)
155 - 201		0.078 (No. 14 Manufacturers Standard Gage)
202 - 254		0.105 (No. 12 Manufacturers Standard Gage)
Greater than 254	Greater than 18	0.135 (No. 10 Manufacturers Standard Gage)

Note a. 1 inch = 25.4 mm; 1 square inch = 645.16 mm².

M-1216.3 Installation: Connectors shall be installed in accordance with Sections M-1216.3.1 through M-1216.3.7.

M-1216.3.1 Supports and joints: Connectors shall be supported in an approved manner, and joints shall be fastened with sheet metal screws, rivets or other approved means.

M-1216.3.2 Size: The connection shall be the same size as the appliance flue outlet.

M-1216.3.3 Length: The maximum horizontal length of a connector shall be 75 percent of the height of the chimney or vent, except that the maximum horizontal length of insulated connectors shall be 100 percent of the height of the chimney or vent.

M-1216.3.4 Connection: The connector shall extend to the inner face of the chimney or vent liner, but not beyond. A connector entering a masonry chimney shall be cemented to masonry in an approved manner. Where thimbles are installed to facilitate removal of the connector from the masonry chimney, the thimble shall be permanently cemented in place with high-temperature cement.

M-1216.3.4.1 Chimney connector pass-through: Chimney connectors for domestic-type appliances shall not pass through walls or partitions constructed of combustible material to reach a masonry chimney unless:

1. The connector is labeled for wall pass-through and is installed in accordance with the manufacturer's instructions; or
2. The connector is put through a device labeled for wall pass-through; or
3. The connector has a diameter not larger than 10 inches and is installed in accordance with one of the methods in Table M-1216.3.4.1 and Figure M-1216.3.4.1. Concealed metal parts of the pass-through system in contact with flue gases shall be of stainless steel or equivalent material that resists corrosion, softening or cracking up to 1,800 degrees F. (980 degrees C.).

M-1216.3.5 Pitch: Connectors shall rise vertically to the chimney or vent with a minimum pitch equal to 1/4 inch per foot (21 mm/m).

M-1216.3.6 Location: Connectors shall be located entirely within the room in which the connecting appliance is located except as permitted in Section M-1216.3.4.1.

921.2 Firestopping materials: All *firestopping* shall consist of approved noncombustible materials securely fastened in place. *Firestops* of approved noncombustible materials or of materials of two thicknesses of 1-inch lumber with broken lap-joint, or one thickness of 23/32-inch plywood with joints backed by 23/32-inch plywood, or of 2-inch lumber installed with tight joints, shall be used in open spaces of wood framing.

921.3 Draftstopping materials: *Draftstopping* materials shall not be less than 1/2-inch gypsum board, 3/8-inch plywood or other approved materials adequately supported.

921.4 Integrity: The integrity of all *firestopping* and *draftstopping* shall be continuously maintained.

921.5 Required inspection: *Firestopping* and *draftstopping* shall not be concealed from view until inspected and approved.

921.6 Firestopping required: *Firestopping* shall be provided in the locations specified in Sections 921.6.1 through 921.6.7.

921.6.1 Concealed wall spaces: *Firestopping* shall be provided in concealed spaces of stud walls and partitions, including furred or studded-off spaces of masonry or concrete walls, and at the ceiling and floor or roof levels. *Firestopping* is not required at the ceiling level of walls, partitions and furred spaces constructed of noncombustible materials as defined by Section 902.4.

921.6.2 Connections between horizontal and vertical spaces: *Firestopping* shall be provided at all interconnections between vertical and horizontal spaces such as occur at soffits over cabinets, drop ceilings, cove ceilings and similar locations.

921.6.3 Stairways: *Firestopping* shall be provided in concealed spaces between stairway stringers at the top and bottom of the run.

921.6.4 Ceiling and floor openings: *Firestopping* shall be provided at openings around vents, pipes, ducts, chimneys and fireplaces at ceiling and floor levels, with noncombustible materials. Factory-built chimneys and fireplaces shall be firestopped in accordance with UL 103 and UL 127 listed in Appendix A.

921.6.5 Architectural trim: *Firestopping* shall be provided in exterior cornices and other exterior architectural elements where permitted of combustible construction in Section 926.0, or where erected with combustible frames, at maximum intervals of 20 feet (6096 mm). If noncontinuous, such elements shall have closed ends, with at least 4 inches (102 mm) of separation between sections.

921.6.6 Combustible finish and trim: *Firestopping* shall be provided in the space behind combustible trim and finish where permitted under this code and all other hollow spaces where permitted in fire-resistance rated construction at 10-foot (3048 mm) intervals; or the space shall be solidly filled with noncombustible materials.

921.6.7 Concealed sleeper spaces: Concealed sleeper spaces formed by floor sleepers (1 m²); or the space shall be firestopped.

921.7 Draftstopping required: Types 3, 4 and 5 construction shall be firestopped. 921.7.2.

921.7.1 Floors: Where suspended or attached directly to the ceiling, the space between the ceiling and the floor shall be firestopped as specified in Section 921.7.2.

921.7.1.1 Use Groups R-1, R-2, R-3: *Draftstopping* shall be provided where walls do not extend to the floor.

Exception: Where the space between the ceiling and the floor is sprinklered, *draftstopping* is not required.

921.7.1.2 Use Group R-3: In buildings divided into approximately equal units (1 m²). The *draftstopping* shall be provided at the floor.

Exception: Where the space between the ceiling and the floor is sprinklered, *draftstopping* is not required.

921.7.1.3 Other use groups: In buildings where *draftstopping* is provided so that horizontal areas are not less than 100 sq ft.

Exception: Where the space between the ceiling and the floor is sprinklered, *draftstopping* is not required.

921.7.2 Attics and concealed spaces: Attics and concealed spaces shall be firestopped as specified in Section 921.7.2.1.

921.7.2.1 Use Group R: In buildings where overhang or other concealed roof spaces are provided above and in line with the tenant's roof sheathing above.

Exceptions

1. Where *corridor* walls are provided, *draftstopping* is not required above or below.
2. Where flat roofs with solid sheathing are provided over tenant separation walls, *draftstopping* is not required.
3. Where the space above a building is sprinklered at the ceiling, *draftstopping* is not required.