

TABLE 16.—DUCTS FOR DWELLINGS

Table with 4 columns: Diameter or diagonal of rectangular ducts in inches, Minimum thickness and weight, Tin galvanized sheet weight per square foot, Aluminum weight per square foot. Rows include sizes from 10 to 18 inches.

A vent of not less than No. 20 B & S gage aluminum, 16-ounce sheet copper, No. 26 U.S. gage metal or of not less than No. 20 U.S. gage galvanized sheet iron...

113.66. Connections and Bracing.—All seams in vents shall be made substantially air and gas tight; and the vents shall be supported on substantial, corrosion-resistant metal brackets or hangers...

113.67. Duct Systems.—All ducts and duct systems required for warm air heating and air-conditioning systems under the provisions of sections 114 and 118 of this code shall be constructed of similar materials approved for vents...

113.68. Hot Air Ducts.—Hot air ducts in proximity to combustible materials shall be sufficiently insulated to prevent temperatures of more than two hundred and fifty (250) degrees F. on the exterior surface...

113.69. Cold Air Ducts.—The construction of cold air ducts shall comply with all the provisions of this code which apply to hot air ducts with the exception of section 113.68...

113.7. Smokepipes and Connections.—The smokepipe or breeching from solid and liquid fuel-fired heating appliances shall be constructed of galvanized iron, or other corrosion-resistant metals...

113.71. Chimney Connections.—Smokepipes shall enter the side of the chimney through a fire-clay or metal thimble or fire ring of masonry...

113.72. Thickness of Metal.—The thickness of metal smokepipes shall be not less than specified in table 16, and of ducts and duct systems...

113.73. Length of Smokepipe.—Smokepipes shall be as short and straight as possible consistent with safe and sound construction...

113.74. Clearances.—Unless covered on the outside with one (1) inch of asbestos insulation or other approved noncombustible material, the following clearances shall be maintained on all combustible materials and construction:

Table with 2 columns: Diameter in inches, Clearance in inches. Rows include diameters 10-12, 12-36, and over 36.

The specified clearances may be reduced one-half (1/2) when an approved metal or other noncombustible enclosing shell is installed so as to provide a continuous one (1) inch ventilating air space around the smokepipe...

113.8. Fireplaces.—The backs and jambs of fireplaces shall be not less than eight (8) inches thick of solid masonry or reinforced concrete with a lining of fire brick, soapstone, cast iron, or other approved noncombustible material...

113.82. Fireplace Heaters.—No heater shall be installed in a fireplace unless it is provided with a flue conforming to this code; except that such appliances may be installed in a fireplace when vented through the provisions of section 113.51.

113.83. Imitation Fireplaces.—The depth of an imitation fireplace or hearth or hearth opening shall be not less than sixteen (16) inches unless such recess meets all the requirements for fireplaces...

113.84. Non-Fireplace Grates.—The grate area of an incinerator is not more than nine (9) square feet, the flue shall be enclosed by not less than four (4) inches of brick or reinforced concrete masonry...

113.85. Spark Arrestors.—Flues for all fuel-fired incinerators shall be provided with a spark arrester of approved noncombustible material having a maximum mesh opening of three-quarter (3/4) inch. The total effective open area of such spark arrester shall be not less than one (1) square foot grate area.

113.86. Domestic Incinerators.—Flues for incinerators of not more than one (1) square foot grate area and not more than two (2) single air inlets may be used on the same flue serving a furnace in a single-family dwelling...

113.87. Heating Equipment Mounting and Installation.—The provisions of this section are limited in application to heating appliances fixed with solid, liquid or gaseous fuels...

113.88. Gas-Fired Appliances.—Except where the manufacturer's instructions specifically provide for the installation of approved gas-fired appliances, the following provisions shall apply to the installation of gas-fired heating equipment...

113.89. Clearances.—Clearances shall be maintained on all combustible materials and construction as specified in section 113.74, and in addition, the following clearances shall be maintained on all combustible materials and construction:

113.90. Double Tie Mounting.—When restaurant-type appliances are not mounted on legs, the floor under the appliance shall be not less than eight (8) inches in height under the base...

113.91. Four-Inch Clearance.—When hotel and restaurant-type appliances are mounted on legs which provide an open ventilated space of not less than eight (8) inches in height under the base, the floor shall be protected with sheet metal...

113.92. Four-Inch Clearance.—When hotel and restaurant-type appliances are mounted on legs which provide an open ventilated space of not less than four (4) inches in height under the base, the floor shall be protected with not less than a single layer of hollow clay tile...

113.93. Wall and Ceiling Clearances and Protection.—All solid, liquid and gas-fired heating appliances shall be installed in accordance with the clearances from wood or other combustible materials or construction of not less than eighteen (18) inches at the top, sides and rear...

113.94. Clearance Variations.—House heating appliances, domestic ranges and space heaters may be installed with modified clearances as herein covered with combustible materials:

Table with 3 columns: Fire resistance of protected construction, Fraction of specified clearances, Top, Sides and rear. Rows include 1/2 hour, 1 hour, and 1 1/2 hour.

113.95. Heating Appliances and Furnaces when Heating Appliances are not mounted on legs, the floor under the appliance shall be not less than eight (8) inches in height under the base...

113.96. Gas-Fired Appliances.—Except where the manufacturer's instructions specifically provide for the installation of approved gas-fired appliances, the following provisions shall apply to the installation of gas-fired heating equipment...

113.97. Clearances.—Clearances shall be maintained on all combustible materials and construction as specified in section 113.74, and in addition, the following clearances shall be maintained on all combustible materials and construction:

113.98. Clearances.—Gas vent connectors shall have the following minimum clearances from combustible construction:

Table with 2 columns: Type of appliance, Clearance in inches. Rows include boiler, space heaters, incinerators.

113.99. Reduced Clearances.—The clearances specified in section 113.98 may be reduced when the combustible construction is protected as herein provided:

Table with 2 columns: Type of Protection, Reduced Clearance. Rows include 1/2 inch noncombustible wall, 1 inch noncombustible wall, 1 inch noncombustible floor.

113.100. Unit Heaters.—Steam and hot water unit heaters shall be installed in accordance with the following provisions:

113.101. Wall Heaters.—Wall heaters shall not be located in walls or partitions of combustible construction unless approved for such installation with integral insulation to prevent a temperature of more than two hundred and fifty (250) degrees F. on the exposed surface...

113.102. Location and Equipment of Heating Appliances.—113.103. Heater Room Ventilation and Air Supply.—All rooms containing heating appliances shall be provided with gravity or mechanical ventilation...

113.104. Prohibited Uses.—No solid, gas or liquid fuel-fired water heaters, radiators, or other heating appliances shall be installed in any room or space with a volume of less than three hundred (300) cubic feet...

113.105. Boiler and Furnace Location.—Boiler rooms shall be located in accordance with the following provisions:

113.106. Gravity Warm Air Furnaces.—Gravity warm air furnaces shall be installed in a double metal casing with intervening air space extending from the bottom of the furnace to the top of the furnace...

113.107. Low Pressure Steam Boilers.—Low pressure steam boilers shall be installed in accordance with the following provisions:

113.108. Low Pressure Hot Water Boilers.—Low pressure hot water boilers shall be equipped with approved water valve, altitude gage, thermometer, and relief valve...

113.109. Gravity Warm Air Furnaces.—Gravity warm air furnaces shall be installed in a double metal casing with intervening air space extending from the bottom of the furnace to the top of the furnace...

113.110. Areas in which floor furnaces are housed shall be free from dampness and danger of flooding and shall be ventilated as required in section 114.45...

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TABLE 16.—CAPACITY OF EXTERIOR FUEL OIL TANKS

Table with 3 columns: Distance from lot lines in feet, Maximum capacity in gallons, Minimum capacity in gallons. Rows include distances 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90, 95, 100.

114.85. Oil Supply Lines.—All oil supply lines shall be installed according to rules and standards of the National Board of Fire Underwriters...

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SECTION 114.0. HEATING EQUIPMENT MOUNTING AND INSTALLATION

The provisions of this section are limited in application to heating appliances fixed with solid, liquid or gaseous fuels...

114.01. Clearances.—Clearances shall be maintained on all combustible materials and construction as specified in section 113.74, and in addition, the following clearances shall be maintained on all combustible materials and construction:

114.02. Double Tie Mounting.—When restaurant-type appliances are not mounted on legs, the floor under the appliance shall be not less than eight (8) inches in height under the base...

114.03. Four-Inch Clearance.—When hotel and restaurant-type appliances are mounted on legs which provide an open ventilated space of not less than eight (8) inches in height under the base, the floor shall be protected with sheet metal...

114.04. Four-Inch Clearance.—When hotel and restaurant-type appliances are mounted on legs which provide an open ventilated space of not less than four (4) inches in height under the base, the floor shall be protected with not less than a single layer of hollow clay tile...

114.05. Wall and Ceiling Clearances and Protection.—All solid, liquid and gas-fired heating appliances shall be installed in accordance with the clearances from wood or other combustible materials or construction of not less than eighteen (18) inches at the top, sides and rear...

SECTION 114.1. HEATING EQUIPMENT MOUNTING AND INSTALLATION

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SECTION 114.2. HEATING EQUIPMENT MOUNTING AND INSTALLATION

The provisions of this section are limited in application to heating appliances fixed with solid, liquid or gaseous fuels...