



**MECHANICAL & GAS  
CODE AMENDMENTS  
TO THE**

**2018  
INTERNATIONAL  
RESIDENTIAL  
CODE**

**FOR MECHANICAL AND FUEL GAS (CHAPTERS 12 – 24)**

## MECHANICAL & GAS CODE FOR RESIDENTIAL

### **AMEND Section 105.1 as follows:**

**105.1 Required.** Any owner or owner's authorized agent who intends to construct, enlarge, alter, move, demolish or change the *occupancy* of a building or structure, which is regulated by this code, or to cause any such work to be performed, shall first make application to the code official and obtain the required permit for work.

### **ADD Section 105.1.3 as follows:**

**105.1.2 Mechanical permits.** A licensed *Mechanical Contractor* who desires to construct, enlarge, alter, move, demolish or change the *occupancy* of a building or structure, or to erect, install, remove, convert or replace any plumbing system, the installation of which is regulated by this code, or to cause any such work to be performed, shall first make application to the code official and obtain the required permit for work.

### **AMEND Section 202 as follows:**

**Board of Appeals.** Whenever the term "Board of Appeals" is used in the City of Bartlett Plumbing Code herein adopted, it shall mean the Code Appeals Board of Bartlett, Tennessee.

**Building Department.** Whenever the term "Building Department" is used in the technical codes herein adopted, it shall mean the Office of Code Enforcement of Bartlett, Tennessee.

**Building Official.** The officer or the other designated authority, or their duly authorized representative, charged with the administration and enforcement of the technical codes.

**Chief Appointing Authority.** Whenever the term "Chief Appointing Authority" is used in the technical codes herein adopted, it shall mean the Mayor of the City of Bartlett, Tennessee.

**City Municipality or Governing Body.** Whenever the word "City" or "Municipality" or "Governing Body" is used in the technical codes herein adopted, it shall mean the City of Bartlett, Tennessee.

**International Building Code.** Whenever the words "International Building Code" are used in the codes herein adopted, they shall mean the 2021 International Building Code with the City of Bartlett TN amendments.

**International Electrical Code.** Whenever the words "International Electrical Code" are used in the codes herein adopted, they shall mean the 2017 National Electrical Code (NEC) with the City of Bartlett TN amendments.

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**International Fuel Gas Code.** Whenever the words “International Fuel Gas Code” are used in the codes herein adopted, they shall mean the 2021 International Fuel Gas Code with the City of Bartlett TN amendments.

**International Mechanical Code.** Whenever the words “International Mechanical Code” are used in the codes herein adopted, they shall mean the 2021 International Mechanical Code with the City of Bartlett TN amendments.

**International Plumbing Code.** Whenever the words “International Plumbing Code” is used in the codes herein adopted, they shall mean the 2021 International Plumbing Code with the City of Bartlett TN amendments.

**International Residential Code.** Whenever the words “International Residential Code” is used in the codes herein adopted, they shall mean the 2018 International Residential Code with the City of Bartlett TN amendments.

**Mechanical Contractor.** Whenever the term *mechanical contractor* is used in the Technical Codes herein adopted, it shall mean a plumbing contractor who holds a current license issued by State of Tennessee or Shelby County Construction Code Enforcement.

**Workmanship.** Workmanship shall mean that the plumbing system be installed uniform in slope, plumb, and level (as required) without stress or strain to piping or structure as required by Other sections of the Code. Valves, pipes and fitting shall be installed in correct relationship to the direction of flow.

### **ADD Section M1305.1.2.2 as follows:**

**M1305.1.2.2 Accessibility.** Attics containing mechanical equipment shall be accessible by a pull down stairway, permanent ladder or permanent stairway.

### **ADD Section M1307.5.1 and M1307.5.2 as follows:**

**M1307.5.1 Mechanical equipment disconnect.** The disconnecting means for heating, air conditioning and refrigeration equipment shall in no case be installed farther than 6 feet (1.83 M) from the service side of the equipment.

**M1307.5.2 Mechanical equipment service receptacle requirements.** A 120 volt, single phase, 15 or 20 ampere rated receptacle outlet shall be installed within 25 feet (7.62 M) of the service side of the heating, air conditioning and refrigeration equipment.

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### **ADD Section M1402.4 as follows:**

**M1402.4 Rooms containing flammable, combustible, or noxious gas.** A separate and individual ventilation system which is not part of any other system shall be provided for ventilation of each room or space containing flammable vapors, noxious gases and flammable ducts or where serving incompatible materials.

### **ADD Section M1411.3.2.1 as follows:**

**M1411.3.2.1 Drain lines.** Condensate drain lines shall be  $\frac{3}{4}$  inch minimum with a maximum horizontal run of 2 feet. Any drain exceeding 2 feet shall be a minimum of 1  $\frac{1}{4}$  inches. No tubing allowed. Contractor shall use approved DWV fittings.  $\frac{3}{4}$  inch drain pan lines shall be allowed to be connected for two drain pans only. Third drain pan shall be installed separately. A 90 degree elbow at  $\frac{3}{4}$  inch drain pan line horizontal termination to outside.

### **ADD Section M1411.3.6 as follows:**

**M1411.3.6 Alternate condensate disposal.** When the condensate drain(s) cannot be connected to the drainage system as determined by the Mechanical Inspector, an alternate method of disposal may be used with prior approval from Mechanical Inspector.

### **ADD Section M1502.3.2 as follows:**

**M1502.3.2 Dryer vent termination.** At termination of dryer exhaust, secure grill/louvers with screws.

### **ADD Section M1502.4.2.1 as follows:**

**M1502.4.2.1 Under slab exhaust clothes drying duct.** Under slab exhaust ducts shall be smooth wall schedule 40 PVC and terminate 12 inches above grade with damper and be non-screened.

### **ADD Section M1602.2 #8:**

8. Undercut of doors do not count as a return.

### **ADD Section M1602.2.1 as follows:**

**M1602.2.1 Return air plenum seal.** Seal all returns with 100% silicone rubber caulk/HVAC caulk.

## **RESIDENTIAL GAS CODE AMENDMENTS**

### **ADD G2413.1.1 as follows:**

**G2413.1.1 Minimum sizing.** When the gas pressure is 0.5 pounds per square inch or less, all consumer gas pipe from the point of delivery of the first branch in the house piping shall not be less than 1 inch in diameter. The minimum size of pipe outlets shall be ½ inch.

### **ADD Section G2417.4.1 as follows:**

**G2415.4.1 Solid floors.** No threaded connectors may be used on piping in solid floors.

### **AMEND Section G2417.4.1 as follows:**

**G2417.4.1 Test pressure.** Low pressure (not in excess of 2 psi gauge) gas piping shall withstand a pressure of 10 psig for a period of not less than 10 minutes without showing any drop in pressure. All high pressure gas piping must have a minimum of 30 psig test.

### **AMEND Section G2422.1.2.1 as follows:**

**G2422.1.2.1 Maximum length.** Connectors shall have an overall length not to exceed 18 inches except for range and domestic clothes dryer connectors, which shall not exceed three feet in length. Connectors shall not be concealed within, or extended through walls, floors, partitions, ceilings or appliance housing. A shutoff valve not less than the nominal size of the connector shall be installed ahead of the connector in accordance with section G2420.5.

### **ADD Section G2432.1.1 as follows:**

**G2432.1.1 Decorative appliances.** All fireplace log and starters shall be installed according to their listings and have a readily accessible manual shutoff valve within reach of and extraneous to the fireplace. A manual main shutoff valve shall be installed ahead of all controls including the pilot gas valve.

### **ADD Section G2432.1.2 as follows:**

**G2432.1.2 Outdoor appliance connectors.** Flexible connectors used outdoors shall be listed for outdoor use. Flexible connectors used in fireplaces and fire boxes shall be approved for such use or be stainless steel.

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### **ADD Section G2433.1.1 as follows:**

**G2433.1.1 Gas log starter support.** Log starters shall have support installed on end of starter.

### **ADD Section G2448.1.2 as follows:**

**G2448.1.2 Prohibited location for water heater installation.** Water heaters, with the exception of those having direct vent systems, shall not be installed in bathrooms and bedrooms or in a closet with access only through a bedroom or bathroom. However, water heaters of the automatic storage type may be installed as a replacement in a bathroom, when specifically authorized by the gas official providing they are properly vented and are supplied with adequate combustion air.

**EXCEPTION:** When a closet having a weather stripped solid door, with an approved door closing device has been designed exclusively for the water heater, and where all air for combustion and ventilation is supplied from outdoors.

### **ADD Section G2450.1.1 as follows:**

**G2450.1.1 Illuminating appliances.** All illuminating gas appliances must have an accessible manual shut off valve within reach of and extraneous to the appliance.

### **ADOPT the following appendices with this code:**

**Appendix A** Sizing & Capacities of Gas Piping

**Appendix B** Sizing of Venting Systems Serving Appliances Equipped with Draft Hoods,

Category I Appliance, and Appliances Listed for Use with Type B Vents

**Appendix C** Exit Terminals of Mechanical Draft and Direct-Vent Venting Systems

**Appendix D** Recommended Procedure for Safety Inspection of an Existing Appliance

Installation

**Appendix E** Manufactured Housing Used as Dwellings

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### **ADD Section AE307.1.1 as follows:**

**AE307.1.1 Trailer park piping.** Where information is not available on the location of the trailer supply connection, the gas riser to each trailer site should be placed in the rear one third section of the site and not less than 18' from the roadside wall of the trailer. It shall be located and protected or supported so as to minimize the likelihood of damage by moving vehicles. When the gas pressure at the terminal of the gas riser at each trailer site is .5 psig or less, the minimum size of the gas piping shall be 1 inch for other than undiluted liquefied petroleum gases.

### **ADD Section AE307.1.2 as follows:**

**AE307.1.2 Connection of trailer.** Piping shall not be installed underground beneath manufactured homes or house trailers. Trailers shall be connected to the gas piping system with rigid pipe or listed connections of adequate size and installed so as to be protected against physical damage.

### **ADD Section AE307.1.1 as follows:**

**AE307.1.3 Location of shut off valves.** Outlets for individual manufactured homes or trailers shall be provided with a readily accessible manual shut off valve located outdoors at the trailer. Trailers shall be connected to the gas piping system with rigid pipe or listed connections for adequate size and installed so as to be protected against physical damage.