



**CITY OF BARTLETT
AMENDMENTS
TO THE**

**2021
INTERNATIONAL
FUEL GAS
CODE**

FUEL GAS CODE

When adopting the 2021 International Fuel Gas Code, the following Appendices will also be adopted: A, B, & C.

AMEND Section 101.1 as follows:

101.1 Title.

These regulations shall be known as the Fuel Gas Code of the City of Bartlett TN, hereafter referred to as “this code.”

AMEND Section 103.1 as follows:

103.1 Creation of agency. The City of Bartlett, TN Code Enforcement Department is hereby created and the official in charge thereof shall be known as the code official. The function of the agency shall be the implementation, administration and enforcement of the provisions of this code.

AMEND Section 106.1 as follows:

106.1 When permit required. A licensed *Mechanical Contractor* or *Plumbing 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 fuel gas 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:

Code Official. Whenever the term “*Code Official*” is used in the City of Bartlett Plumbing Code herein adopted, it shall mean the Director of the City of Bartlett Construction Code Enforcement.

Board of Appeals. Whenever the term “Board of Appeals” is used in the City of Bartlett Fuel Gas 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 Construction 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.

FUEL GAS CODE

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.

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 contractor who holds a current Mechanical license issued by State of Tennessee or Shelby County Construction Code Enforcement.

Plumbing Contractor. Whenever the term “Plumbing 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 fuel gas 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 301.3.1 as follows:

301.3.1 Approval installation of listed or unlisted equipment. All listed appliances and equipment shall be installed in accordance with their listings. All unlisted appliances and equipment shall be installed in accordance with the manufacturer's instructions, the gas codes, and the gas official. All appliances shall be equipped with a gas appliance pressure regulator which will satisfactorily limit the gas supply pressure, unless not required by the appliances listing.

ADD Section 301.12.1 as follows:

301.12.1 Seismic Protection for Gas Piping. A seismic-letter will be required for gas piping installation.

AMEND Section 301.15 as follows:

301.15 Prohibited Locations. The *appliances, equipment,* and systems regulated by this code shall not be located in an air duct, clothes chute, chimney or vent, ventilating duct dumbwaiter or elevator shaft.

Exception: Where the *code official* finds that it is impossible to avoid installing gas piping through or in building duct system for heat, ventilating or air conditioning system, the gas pipe may be installed in a casing of non-combustible, rigid gas tight material.

ADD Section 301.15.1 as follows:

301.15.1 Plenums. Gas piping shall be prohibited in plenum spaces unless such spaces are accessible. This provision shall not apply to gas piping in non-plenum concealed locations. Shut off valves, union shut off valves, or unions for gas piping shall be prohibited in all concealed locations and all spaces used as plenums.

ADD Section 305.4.1 as follows:

305.4.1 Gas utilization equipment. Gas utilization equipment may be installed in a repair garage when there is no dispensing or transferring of liquefied petroleum gas or other flammable liquids, provided all burners, burner flames, and burner ignition devices are located not less than 18 inches above the floor, and provided continuous mechanical ventilation is supplied at a rate of not less than one cubic foot per minute per square foot of floor area. For installations in below-grade areas, an approved means shall be provided for introducing an equal amount of outdoor air. The equipment and the ventilation system shall be interlocked so the equipment will not operate unless the ventilation system is in operation. Gas utilization equipment shall be located or protected so it is not subject to physical damage by a moving vehicle.

ADD Section 306.1.1 as follows:

306.1.1 Access and service space. Only a permanent access ladder, inside stairway, or pulldown stairs shall be used to provide access. Scuttle holes shall not be used as a means of providing access.

ADD Section 401.1.2 as follows:

401.1.2 Medical gas systems. Medical gas systems shall be installed in accordance with the requirements of NFPA 99C gas and vacuum systems.

AMEND Section 401.3 to add the following new sub-section:

401.3.1 Gas safety inspection for out of service locations. No fuel gas system which has been out of service for 365 consecutive days or more on residential property or 90 consecutive days or more on commercial property shall be used without a successful safety inspection conducted by the City of Bartlett TN Construction Code Enforcement. An inspection will be made once a licensed and registered gas contractor has obtained a permit for the required test and/or repairs and requested the safety inspection.

ADD Section 401.5 #1 as follows:

401.5 #1 Identification and labeling. All indoor and outdoor piping with a line pressure of 2 psi or higher shall be labeled with amount of pressure within the pipe. Labels shall not be spaced more than 20 feet apart.

ADD Section 402.3 #4 - #5 as follows:

4. 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.

5. In CSST piping systems, ½ inch tubing allowed if sized to manufacturer specification.

ADD Section 402.6 #9 as follows:

9. All gas piping up with a line pressure up to 2 psi can be screwed or welded. All gas piping 5 psi or greater shall be welded. All gas piping over 2 inches shall be welded.

Exception: Three fittings at cut off valve to regulator on 5 psi systems.

ADD Section 403.3.3.1 as follows:

403.3.3.1 Approval. Copper, copper alloy, and aluminum tubing or piping shall be used only for specialty use on natural gas with prior approval by the *code official*.

ADD Section 403.3.2.1 as follows:

403.3.2.1 Approval. Schedule 10 steel piping allowed only with prior approval from the *code official*.

ADD Section 403.10.1 #1 as follows:

1. The use of welded steel fittings either shop, field fabricated or manufactured commercially for connecting pipe and fittings by welding is permissible. 2 psi piping systems may be screwed or welded. 5 psi piping systems shall be welded.

AMEND 403.9.5 #1 as follows:

1. Threaded fittings in sizes larger than 2 inches (51 mm) shall not be used.

ADD 403.10.4 #10 as follows:

10. Fittings (except stopcocks and valves) shall be malleable iron or steel when used with steel or wrought iron pipe and shall be copper or copper alloy when used with copper or copper alloy pipe or tubing. The use of welded steel fittings, either shop or field fabricated and connecting of pipe and fittings by welding is permissible.

ADD 403.10.4 #11 as follows:

11. No bushings allowed on interior gas piping unless approved by manufacturer of equipment being installed.

ADD 404.5.1 as follows:

404.5.1 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 404.5.2 as follows:

404.5.2 Connection of house 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 404.6.1 as follows:

404.6.1 Piping in solid floors. No threaded connectors may be used on piping in solid floors.

ADD Section 404.9.1 as follows:

404.9.1 Protection of above ground piping. All gas piping exposed to outside weather shall be protected with approved paint coatings to prevent corrosion.

ADD Section 404.12.2 as follows:

404.12.2 Separation from underground electrical. Underground gas piping shall maintain a minimum of 12 inches of separation where buried in the same ditch as direct-burial conductors, raceways, conduits, etc.

AMEND Section 406.4.1 as follows:

406.4.1 Method of Testing. Low pressure (not in excess of 2 psi gauge) gas piping shall withstand a pressure of 10 psig without showing any drop in pressure. All high pressure gas piping must have a minimum of 30 psig test.

ADD Section 409.1.4 as follows:

409.1.4 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.

ADD 409.5.1.1 as follows:

409.5.1.1 Fireplace logs and starters. All fireplace logs and starters must 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.

AMEND Section 411.1 #10 and #11 as follows:

10. Flexible connectors used outdoors shall be listed for outdoor use. Flexible connectors used in fireplace fireboxes shall be approved for such use or be stainless steel.

11. Connectors shall have an overall length not to exceed 18 inches except for range and domestic clothes dryer connectors, which shall not exceed 3 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 409.5. Connectors shall be sized to provide the total demand of the connected appliance.

ADD Section 501.10.1 as follows:

501.10.1 Room exhausters and appliance blowers. A fan or blower shall not be discharged into any vent, chimney or vent connector into which a gas appliance is vented by natural draft.

AMEND Section 503.10.2.3 as follows:

503.10.2.3 Residential type appliance connectors

Where vent connectors for residential type appliances are not installed in attic or other unconditioned spaces, connectors for listed appliances having draft hoods and for appliances having draft hoods and equipped with listed conversion burners shall be one of the following:

1. Type B or Type L Vent Material
2. Delete
3. Delete
4. Delete
5. Delete
6. A Listed Vent Connector

Vent connectors shall not be covered with insulation.

Exception: Listed insulated vent connectors shall be installed according to the terms of their listing.

ADD Section 603.2 as follows:

603.2 Log starters

Log starters shall have support installed on end of starter.

ADD Section 624.1.2 Water Heaters as follows:

624.1.2 Prohibited installations. 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 *code official*, providing they are properly vented and are supplied with adequate combustion air.

Exception: When a closet, having a weather stripped solid door 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 624.1.3 thru 624.1.4 as follows:

624.1.3 Water heater location. Water heaters shall be located as close as practical to the vent.

624.1.4 Installation in garages prohibited.

Gas fired water heaters or central furnaces shall not be installed in residential garages. Combustion air ducts shall not terminate in a residential garage. Doors in garages, accessing gas fired appliances in closets, furnace rooms etc. shall be weather stripped to provide an air tight seal which will prevent gasoline vapors from entering the appliance closet or room. Appliances shall be installed a minimum of 18 inches above ground level.

ADD Section 628.5 as follows:

628.5 Shutoff. All illuminating gas appliances must have an accessible manual shut off valve within reach of and extraneous to the appliance.