

RESOLUTION

RESOLUTION DECLARING THE NEED FOR THE ADOPTION OF THE INTERNATIONAL RESIDENTIAL CODE FOR ONE AND TWO FAMILY DWELLINGS, 2015 EDITION, AND PROVIDING CERTAIN LOCAL AMENDMENTS TO SAID CODE.

WHEREAS, the Council of The City of Oklahoma City finds that said City needs an up-to-date code of ordinances to provide for the safety, health and public welfare through properly designed, acceptably installed, and adequately maintained buildings and structures; and

WHEREAS, the Oklahoma City Residential Building Code Review Board has recommended that the International Residential Code for One and Two Family Dwellings, 2015 Edition, may be adapted to meet the needs of The City by the amendment of certain sections thereof, by adding thereto certain sections particularly suitable to this City; and

WHEREAS, it is the desire of the Council to make such changes in the International Residential Code for One and Two Family Dwellings, 2015 Edition, before considering it for approval as amended.

NOW, THEREFORE, BE IT RESOLVED by the Council of The City of Oklahoma City, that the International Residential Code for One and Two Family Dwellings, 2015 Edition, be and the same hereby is ordered, amended, and changed in the following respects;

Section R102.4 Standards and references is hereby amended to read as follows:

Section R102.4 Standards and references. Where the City of Oklahoma City has adopted a specific referenced code or standard different than those listed, the adopted code shall apply.

Section R105.2 Building exception # 1 is hereby amended to read as follows:

1. One-story detached accessory structures used as tool and storage sheds, playhouses and similar uses, provided the floor area does not exceed 200 square feet (18.58 m²), the overall building height is 10 feet or less, and the building is not located on a permanent foundation.

Section R105.2 Building exception # 2 is hereby deleted.

Section R105.2 Building exception # 3 Is hereby amended to read as follows:

Section R105.2 Building exception # 3 Retaining walls that are 18” or less in height measured from the bottom of the footing to the top of the wall, unless supporting a surcharge.

Section R109.1.3 is hereby amended to read as follows

Section RI09.1.3 Floodplain inspections. For construction in areas prone to flooding as established by Table R301.2(1), upon placement of the lowest floor, including basement, and prior to further vertical construction, the building official shall require submission of documentation, prepared and sealed by a registered design professional, of the elevation of the lowest floor, including basement.

Section R110.3 Certificate issued is hereby amended to delete numbered requirements 7 and 8.

Sections R112.1, 112.3 through **R112.4** is hereby deleted.

Section R113.4 Violation Penalty is hereby deleted.

Table R301.2 (1) is hereby amended to fill the table with the following: ground snow load -10 psf; wind speed - 90 mph; seismic design category - C; weathering - moderate; frost line depth - 18 inches; termite – yes; winter design temp. – 13F; ice barrier underlayment required – no; flood hazards – See Chapter 16 of the Oklahoma City Municipal Code; air freezing index – 332; mean annual temp. – 60F.

Section R302.1.1 is hereby added to read as follows:

Section R302.1.1. Zoning requirements. Lot line separations required by the zoning districts are not waived or altered by the provisions of this section.

Section R302.5.1 is hereby amended to add:

Openings between the garage and the residence shall be constructed to form a barrier that will resist the free passage of vapors, flame and products of combustion.

Sections R322.1 through **R322.3.7** are deleted and a new **Section R322.1** is added to read as follows:

Section R322.1 General buildings and structures constructed in whole or in part in flood prone areas as established by The City of Oklahoma City shall comply with the provisions of Chapter 16 of the Oklahoma City Municipal Code.

Section R406.2 is hereby modified to include an additional option for waterproofing:

9. Bentonite.

Figure R703.8.2.1 and **R703.8.2.2** are hereby amended to clarify that the counter flashing shown goes under the flashing coming from behind the brick veneer not over it.

Section R902.1 is amended to add:

All roof coverings shall be required to be a minimum Class A, B or C.

Chapter 11 Energy Efficiency: Is adopted with all modifications made by the OUBCC International Residential Code®, 2015 Edition (IRC®, 2015) 748:20-5-1 through 748:20-5-28

Section M1307.1 is hereby added to read as follows:

Section M1307.1.1 Appliance installation. Mechanical equipment and tank type hot water heater appliances shall be installed in accordance with Section M1307 of this Code except that fuel burning central furnaces and tank type water heaters shall not be installed under a stairwell.

Exception: This requirement shall not apply to areas under stairwells that are sprinkler protected.

1. Fuel-burning central heating units and fuel-burning tank type water heaters installed in a garage or other hazardous location shall be protected by enclosure in a closet.

Exception: An appliance enclosure shall not be required where a direct-vent appliance is installed provided the appliance is protected from impact in an approved manner.

Section M1308.3 is hereby added to read as follows:

Section M1308.3 Construction equipment. Construction equipment such as backhoes, other motorized earth moving equipment, etc., shall not travel within or over a stem wall area or foundation perimeter after plumbing, electrical or mechanical ducts, piping, equipment or materials have been installed.

Exception: Construction equipment shall be permitted within said prohibited areas where such equipment does not travel over or adjacent to any duct, piping, equipment or materials subjecting them to physical damage, provided however that the code official shall be notified prior to the work and provided that the code official shall verify that no damage is done to the installation by such construction equipment.

Section M1309 is hereby added to read as follows:

Section M1309.1 Construction Heat. Construction heat shall be allowed according to the following requirements:

1. An inspection shall be made for construction heat prior to placing the heating system in operation.
2. Filter or filters shall be installed over each return air opening. Filters shall be cleaned or replaced as they become loaded with dust and debris. Air-handling units, appliances, and equipment shall not be in operation while the air filters are being changed.
3. The construction heat thermostat shall have a minimum set point of 55 degrees F.
4. Mechanical equipment and appliances shall be installed in accordance with all safety requirements and limitations of the appliance and equipment manufacturer's installation instructions, relative to construction heat.
5. Mechanical equipment shall be separated and isolated from all construction areas
6. When combustible, flammable, explosive or corrosive materials in any state (solid, liquid, or gaseous) are being used in the construction process, the mechanical system shall not be in use except where approved by the Code Official. The construction area shall be thoroughly ventilated before the mechanical system is put back into service.
7. Failure to provide adequate filtering during construction shall be grounds for requiring ductwork, mechanical equipment, and appliances to be professionally cleaned or replaced before final approval.

Section M1411.3 is amended to add Items 1, 2 and 3 to read as follows:

1. All condensate waste drain lines shall be carried full size from the primary drain pan outlet and piped to a sanitary sewer, storm drain, flood drain, or other approved location or receptor.
2. Drains shall have a slope of not less than 1/8-inch per foot and contain no sags.
3. Drains shall not discharge under any habitable space or on any sidewalk, walkway, street, alley, parking area, or where a nuisance, unsafe condition, or hazard may result.

Section M1602.1.1 is hereby added to read as follows:

Section M1602.1.1 Required minimum area (return air ducts). The total unobstructed area of return air ducts or openings to a warm-air furnace shall be in accordance with the manufacturer's installation instructions but shall not be less than 2 square inches for each 1,000 Btu/h output rating of the furnace. The minimum unobstructed total area of the return air ducts or openings to a central air conditioning unit and/or heat pump shall be in accordance with the manufacturer's installation instructions. Where it cannot be demonstrated that return air ducts have been sized using an approved duct sizing method, the total cross-sectional area of the return air duct shall not be less than 6 square inches for each 1,000 Btu/h nominal cooling output rating.

Exception: An approved engineered air distribution system design.

Section M1603 is hereby added:

M1603 SUPPLY AIR

Section M1603.1 is hereby added to read as follows:

Section M1603.1 Required minimum area (supply air ducts). The minimum unobstructed total area of supply air ducts from a warm-air furnace shall be in accordance with the manufacturer's installation instructions but shall not be less than 2 square inches for each 1,000 Btu/h output rating of the furnace. The minimum unobstructed total area of the supply air ducts or openings from a central air conditioning unit and/or heat pump shall be in accordance with the manufacturer's installation instructions. Where it cannot be demonstrated that supply air ducts have been sized using an approved duct sizing method, the total cross-sectional area of the supply air duct shall not be less than 6 square inches for each 1,000 Btu/h nominal cooling output rating. Dampers, grilles or registers installed for the purpose of controlling the supply airflow shall not be considered as obstructions.

Exception: An approved engineered air distribution system design.

Section G2401.2 is hereby added to read as follows:

Section G2401.2 Work on gas piping systems. Repairs, additions, alterations, relocations, and/or other work on any portion of gas piping systems regulated by the 2015 International Residential Code shall only be performed by a licensed Plumbing or Mechanical contractor that is duly authorized by the State of Oklahoma and The City of Oklahoma City to do gas work, and whose licenses and registrations are current and active. A permit shall be obtained by the contractor prior to performing such work.

Section G2401.2.1 is hereby added to read as follows:

Section G2401.2.1 Required inspections and testing. The code official, upon notification from the permit holder or the permit holder's agent, shall make the following inspections and other such inspections as necessary, and shall either release that portion of the construction or notify the permit holder or the permit holder's agent of violations that are required to be corrected. The holder of the permit shall be responsible for scheduling such inspections.

1. Underground inspection shall be made after trenches or ditches are excavated and bedded, piping is installed and before backfill is put in place. When excavated soil contains rocks, broken concrete, frozen chunks and other rubble that would damage or break the piping or cause corrosive action, clean backfill shall be on the job site.
2. Rough-in inspection shall be made after the roof, framing, fireblocking and bracing are in place and components to be concealed are complete, and prior to the installation of wall or ceiling membranes.
3. Final inspection shall be made upon completion of the installation.
4. The inspector shall issue a certificate of approval at the completion of the work for which a permit has been issued, including construction gas/construction heat, where a building is under construction. If, after all inspections, it is found that such work complies with the provisions of this code and all other requirements of law or ordinances applicable to it, a duplicate of each piping certificate shall be delivered or transmitted to the gas company and used as their authority to establish gas service.
5. Fire damaged, remodeled, relocated buildings and/or meter relocations: Any building that has been fire damaged, remodeled, relocated, or where a gas meter is moved, or where a building has been without gas service for 12 months or longer, an inspection and a pressure test as required by this Code shall be performed on all gas piping before service is restored.

Section G2401.3 is hereby added to read as follows:

Section G2401.3 Gas meter relocation. The relocating of gas meters shall only be done by employees of, or other persons authorized by the gas utility company. Work done to any gas system regulated by the 2015 International Residential Code shall only be done by persons duly authorized by the State of Oklahoma and The City of Oklahoma City. A permit shall be obtained by the Contractor prior to performing such work.

Section G2401.4 is hereby added to read as follows:

Section G2401.4 Gas meter location. Gas meters shall be located as required by the gas supplier.

Section G2415.10.1 is hereby added to read:

Section G2415.10.1 Insulated union at building riser. All underground metallic gas piping shall have an insulated union above ground level before the service enters the building. Where an anode bag is required, the anode lead wire shall be connected below the union.

Section G2415.12 is amended to read as follows:

Section G2415.12 Minimum burial depth. Underground gas piping systems shall be installed a minimum depth of 18 inches below grade, except as provided for in Section G2415.12.1.

Section G2415.13.1 is hereby added to read as follows:

Section G2415.13.1. Gas piping in same ditch with other piping. Gas piping may be installed in the same ditch with other piping such as water, sewer, electrical, or drainage piping provided the installation is approved and a minimum of six inches of horizontal separation of the different piping systems is maintained.

G2415.15.1 is hereby added to read as follows:

G2415.15.1 Future Gas Branches. Gas branches shall have a gas shut off installed and shall be capped gas tight. Branches carrying elevated pressure shall be regulated. Gas branches shall be approved.

Section G2417.4.1 is hereby amended to read as follows:

Section G2417.4.1 Test pressure. The test pressure to be used shall be not less than one and one-half times the proposed maximum working pressure, irrespective of design pressure. The pressure used to test a gas piping system shall not be less than 15 PSIG with a 30 lb. test gauge. Where the test pressure exceeds 125 PSIG, the test pressure shall not exceed a value that produces a hoop stress in the piping greater than 50 percent of the specified minimum yield strength of the piping. The test duration shall be not less than 10 minutes.

Section P2501.2 is amended to read:

Section P2501.2 Application. In addition to the administrative provisions of this chapter the administrative sections of Chapter 42 of the Oklahoma City Municipal Code, shall also apply to the plumbing and gas requirements of Chapter 24 through 32.

Section P2503.4 Building sewer test is amended to read as follows:

Section P2503.4 Building sewer test. When required by local authority having jurisdiction, the building sewer shall be tested by insertion of a test plug at the point of connection with the public sewer, filling the building sewer with water and pressurizing the sewer to not less than 5 foot (1524mm) head of water. The test pressure shall not decrease during a period of not less than for 15 minutes. The building sewer shall be water tight at all points.

Section P2503.7 Water-supply system testing is amended to read as follows:

Section P2503.7 Water-supply system testing. Upon completion of the water-supply system or a section of it, the system or portion completed shall be tested and proved tight under a water pressure of not less than the working pressure of the system or, for piping systems other than PVC or CPVC, by an air test of not less than 50 psi (345 kPa). This pressure shall be held for not less than 15 minutes. The water used for tests shall be obtained from a potable water source.

Section P2603.2.2 is hereby added to read as follows:

Section P2603.2.2 Construction Equipment. Construction equipment. Construction equipment such as backhoes, other motorized earth moving equipment, etc., shall not travel within or over a

stem wall area or foundation perimeter after plumbing, electrical or mechanical ducts, piping, equipment or materials have been installed.

Exception: Construction equipment shall be permitted within said prohibited areas where such equipment does not travel over or adjacent to any duct, piping, equipment or materials subjecting them to physical damage, provided however that the code official shall be notified prior to the work and provided that the code official shall verify that no damage is done to the installation by such construction equipment.

Section P2603.4 is amended to read as follows:

Section P2603.4 Pipes through foundation walls. A pipe that passes through a foundation wall shall be provided with a relieving arch, or a pipe sleeve shall be built into the foundation wall. The relieving arch or pipe sleeve shall conform to one of the materials and standards listed in Table P3002.1(2). The sleeve shall be two pipe sizes greater than the pipe passing through the wall.

Section P2603.5 is amended to read:

Section P2603.5 Freezing. Water, soil and waste pipes shall not be installed outside of a building, in attic or crawl spaces, concealed in exterior walls, or in any other place subject to freezing temperature unless adequate provision is made to protect pipes from freezing by insulation or heat or both. Exterior water supply system piping shall be installed below recorded frost penetration, but not less than two (2) feet [twenty- four (24) inches] below grade.

Section P2704.1 General is amended to read as follows:

Section P2704.1 General. Slip joints shall be made with an approved elastomeric gasket and shall be installed from the fixture to within 18 inches (457 mm) downstream of the trap outlet seal. Fixtures with concealed slip-joint connections shall be provided with an access panel or utility space at least 12 inches (305 mm) in its smallest dimension or other approved arrangement so as to provide access to the slip-joint connections for inspection and repair.

Section P2709.2 is hereby amended to read as follows:

Section P2709.2 Lining required. The adjoining walls and floor framing enclosing on-site built-up shower receptors shall be lined with one of the following materials:

1. Sheet lead.
2. Sheet copper.
3. Plastic liner material that complies with ASTM D 4068 or ASTM D 4551
4. Hot mopping in accordance with Section P2709.2.3. Sheet-applied load-bearing, bonded waterproof membranes that comply with ANSI A118.10.

The lining material shall extend not less than 3 inches (76 mm) beyond or around the rough jambs and not less than 3 inches (76 mm) above finished thresholds. Sheet-applied load bearing, bonded waterproof membranes shall be applied in accordance with the manufacturer's installation instructions

Section P2801.7.1 is hereby added to read as follows:

Section P2801.7.1 Stands and/or platforms. Where water heaters are required to be elevated, they shall be placed on a stand or platform that is structurally appropriate for the intended load of the water heater and its contents.

Section P2902.5.3.1 is hereby added to read as follows:

Section P2902.5.3.1 Installation. Before a final approval is given on lawn or irrigation systems, freeze protection shall be provided for all valves and piping installed in a location subject to freezing. The installing plumbing contractor shall install a separate shut-off valve for the irrigation system in accordance with Sections 55-82-(h) of the 2010-12/16 Cumulative Annual Supplement of The Oklahoma City Municipal Code, 2010. All wiring and electrical controls shall be installed in accordance with the current National Electrical Code.

Section P2903.10 Hose bibb is amended to read as follows:

Section P2903.10 Hose bibb. Hose bibbs subject to freezing, including the "frost-proof" type, shall be equipped with an accessible valve inside the building so that they can be controlled and/or drained during cold periods.

Section P2903.10.1 is hereby added to read as follows:

Section P2903.10.1. Hose connected outlets. All hose connected outlets installed where there is no access to the frost-proof sillcock connection, shall be secured to the structure in an approved manner.

Sections P2904.1.1 is amended to read as follows:

Section P2904.1.1 Required sprinkler locations. Sprinklers shall be installed to protect all areas of a townhouse dwelling unit.

Section P2906.4 Water service pipe is amended to read as follows:

Section P2906.4 Water service pipe. Water service pipe shall conform to NSF 61 and shall conform to one of the standards listed in Table P2906.4. Water service pipe or tubing, installed underground and outside of the structure shall have a minimum working pressure rating of not less than 160 pounds per square inch at 73 degrees Fahrenheit (1103 kPa at 23 degrees Celsius). Where the water pressure exceeds 160 pounds per square inch, (1103 kPa), piping material shall have a rated working pressure equal to or greater than the highest available pressure. Water service piping materials not third-party certified for water distribution shall terminate at least 30 inches outside the exterior wall. Ductile iron water service piping shall be cement mortar lined in accordance with AWWA C104/A21.4.

Section P3003.2 Prohibited joints. is amended to add an exception to read as follows:

Exception: Saddle-type fittings may be used to connect the building sewer to a public sewer.

Section P3003.9.2 Solvent cementing. is hereby amended to read as follows:

Section P3003.9.2 Solvent cementing. Joint surfaces shall be clean and free from moisture. A purple primer that conforms to ASTM F 656 shall be applied. Solvent cement not purple in color and conforming to ASTM D 2564, CSA B 137.3 or CSA B181.2 shall be applied to all joint surfaces. The joint shall be made while the cement is wet and shall be in accordance with ASTM D 2855. Solvent-cement joints shall be installed above or below ground.

Section P3008.1 Sewage backflow is amended to read as follows:

Section P3008.1 Sewage backflow. Where the flood level rims of plumbing fixtures are below the elevation of the manhole cover of the next upstream manhole in the public sewer, the fixtures shall be protected by a backwater valve installed in the building drain, branch of the building drain or horizontal branch servicing such fixtures.

Chapter 34 through Chapter 43 Electrical requirements are deleted and replaced with the following:

The installation of electrical systems, equipment and components shall be in accordance with the Oklahoma City Electrical Code as adopted by The City of Oklahoma City.

The City of Oklahoma City through formal action has chosen not to adopt appendices A through Y of the IRC® 2015 for inclusion in the minimum code for residential construction. Appendices A through Y are informative and provide prescriptive requirements which are not mandatory unless specifically referenced in the adopted ordinance.

APPROVED by City Council and **SIGNED** by the Mayor of The City of Oklahoma City

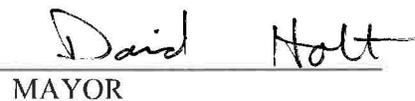
this 24th day of September 2019.

THE CITY OF OKLAHOMA CITY

ATTEST:


City Clerk




MAYOR

REVIEWED for form and legality.

