

ORDINANCE 2018 - 33

AN ORDINANCE AMENDING ORDINANCE 2012 – 37, ARTICLE II, CHAPTER 8, SECTIONS 19-21 OF THE MT. JULIET CODE AND ORDINANCE 2017-38, ARTICLE II, CHAPTER 8, SECTIONS 9-20 (2) “ADDITIONAL CODES ADOPTED” OF THE MT. JULIET MUNICIPAL CODE TO ADOPT THE 2018 EDITION OF THE NATIONAL CODE AND TO ADD LOCAL REGULATIONS

WHEREAS, Tenn. Code Annotated §§’s 6-54-501 through 6-54-511 authorizes municipalities to adopt building, electrical, and fire codes by reference; and,

WHEREAS, the City of Mt. Juliet Board of Commissioners are of the opinion that it is necessary for the health, safety, and welfare of the citizens of Mt. Juliet, Tennessee, to adopt the 2017 Edition of the National Electrical Code and the 2018 Edition of the National Building Code, regulating the conditions and maintenance of all property, buildings, and structures; by providing the standards for the supplied utilities and facilities and other physical things and conditions essential to ensure buildings that structures are safe, sanitary and fit for occupation and use; and the condemnation of buildings and structures unfit for human occupancy and use and the demolition of such structures in the City of Mt. Juliet; and providing for issuance of permits and collections of fees.

NOW THEREFORE, BE IT ORDAINED by the City Commission of City of Mt. Juliet, Wilson County, Tennessee, as follows:

Section 1: Ordinance 2012-37 is eliminated and replaced with this ordinance that adopts the 2018 Edition of the National Building Code.

Section 2: Ordinance 2017-38 is eliminated and replaced with this ordinance that adopts the 2017 Edition of the National Electrical Code.

Section 3. Article II, Chapter 8, Sections 19-21 of the Mt. Juliet Municipal Code is amended by deleting the current Article II, Chapter 8, Sections 19-21 in their entirety and substituting in lieu thereof the following:

CHAPTER 1 INTERNATIONAL BUILDING CODE ADOPTED

8-19 Adoption of International Building Code. The International Building Code, 2018 Edition and other adopted codes, one (1) copy is in the Office of the Building Official in the Building and Codes Department of the City of Mt. Juliet, as published by the International Code Council, be and is hereby adopted as the official building code of the City of Mt. Juliet for regulating and governing the conditions and maintenance of all property buildings and structures; by providing the standard for supplied utilities and facilities and other physical things and conditions essential to ensure that structures are safe, sanitary and fit for occupation and use; and the condemnation of buildings and structures unfit for human occupancy and use and the demolitions of such structures in the City of Mt. Juliet; and providing for the issuance of permits and collection of fees; and each and all of the regulations, provisions, penalties, conditions and terms of the International Building Code are hereby adopted and made a part hereof, as if fully set out in the Ordinance with the additions prescribed in Section 8-20.

8-20. Additional Codes Adopted. The following additional cods are hereby adopted:

2018 Edition of International Residential Code; plus Appendices A, B, C, E, F, G, H, I, J, K, M, N, O, P and Q; and amended as follows;

1. Section R101.1, Insert “City of Mt. Juliet Tennessee” in “Name of Jurisdiction”,

2. Table R301.2(1) adding the following Snow Load "10#", wind speed "90", Seismic "B", weathering "severe", Frost Line Depth, 6", Termite "Moderate to Heavy", Winter design temperature "14°F", Ice Barrier Required, "No", Flood Hazards, "As shown on FEMA FIRM Panel _____, Dated _____, Air Freezing Index "1500 or less", and Mean Annual Temperature "57°F".
3. Section 303.4 Add the following language to the end of the code section to read, "...or approved air exchanger on the HVAC System which will make up the required ventilation."
4. Section R313.2 Remove and replace the words, "one-and two-family dwellings" with "all residential dwellings except, Single-Family Dwellings"
5. Section P2503.5.1 Remove the words, "Other than plastic"

2018 Edition of International Building Code; plus appendices A, B, C, E, F, G H, I, J, K, L, and N and amended as follows:

1. Section 1015.8, change "36" inches to "24" inches

2018 Edition of International Mechanical Code plus Appendix A

2018 Edition of International Plumbing Code plus Appendices B, C, D, and E

2018 Edition of International Existing Building Code plus Appendix A, B and Resource A

2018 Edition of International Fuel Gas Code plus Appendices A, B, C and D

2018 Edition of International Property Maintenance Code

2018 Edition of International Fire Code plus Appendices A,B, C, D, E, F, G, H, I, J, and K

2018 Edition of International Energy Conservation Code as amended as follows:

1. Replace Table C402.2 with Table 502.2(1) & (2) from the 2009 Edition of the IECC
2. Replace Table R402.1.1 with table 402.1 from the 2009 Edition of the IECC
- 3.

2018 Edition of Life Safety Code plus Annexes A, B and C

2017 ICC ANSI A117.1 and the 2010 Edition of the Americans with Disabilities Act for Accessibility Code

2018 International Swimming Pool and Spa Code

2014 ICC-500 Construction of Storm Shelter

2017 ICC-40 Construction of Log Homes

2017 ICC-300 Construction of Bleachers, Folding and Telescopic Seating, and Grandstands

Article 90 through Chapter 9 inclusive are adopted and incorporated into this chapter as the technical section of the electrical code of the City of Mt. Juliet, by reference as fully as though copied into this chapter.

The City of Mt. Juliet's adoption of the 2017 NEC is hereby amended by the following:

Amendments to the National Electrical Code.

- A. Section 100.1 of the 2017 Edition of the National Electrical code is amended by deleting the definition of Authority Having Jurisdiction and substituting the following:

Authority having jurisdiction — The Chief Building Official of the City of Mt. Juliet.

MT. JULIET LOCAL AMENDMENTS

8-20. Additional Codes Adopted. The following additional codes are hereby adopted.

2018 Edition of International Residential Code; plus Appendices A, B, C, E, F, G, H, I J, K, M, N, O, P and Q; and amended as follows;

R101.1 Title.

These provisions shall be known as the Residential Code for One- and Two-family Dwellings of (NAME OF JURISDICTION) *City of Mt. Juliet Tennessee*, and shall be cited as such and will be referred to herein as “this code.”

Table R301.2(1) adding the following Snow Load “10#”, wind speed “90”, Seismic “B”, weathering “severe”, Frost Line Depth, 6”, Termite “Moderate to Heavy”, Winter design temperature “14°F”, Ice Barrier Required, “No”, Flood Hazards, “As shown on FEMA FIRM Panel , Dated , Air Freezing Index “1500 or less”, and Mean Annual Temperature “57°F”.

TABLE R301.2(1)
CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA

GROUND SNOW LOAD	WIND DESIGN		SEISMIC DESIGN CATEGORY ^f	SUBJECT TO DAMAGE FROM			WINTER DESIGN TEMP ^e	ICE BARRIER UNDERLAYMENT REQUIRED ^h	FLOOD HAZARDS ^g	AIR FREEZING INDEX ⁱ	MEAN ANNUAL TEMP ^j
	Speed ^d (mph)	Topographic effects ^k		Weathering ^a	Frost line depth ^b	Termite ^c					
10	90	NA	B	SEVERE	6"	Mod to Hwy	14°F	NO	SEE FIRM	1,500 or Less	57°F

3. Section 303.4 Add the following language to the end of the code section to read, “...or approved air exchanger on the HVAC System which will make up the required ventilation.”

R303.4 Mechanical ventilation.

Where the air infiltration rate of a dwelling unit is less than 5 air changes per hour when tested with a blower door at a pressure of 0.2 inch w.c (50 Pa) in accordance with Section N1102.4.1.2, the dwelling unit shall be provided with whole-house mechanical ventilation in accordance with Section M1507.3 or approved air exchanger on the HVAC System which will make up the required ventilation.

4. Section R313.2 Remove and replace the words, “one-and two-family dwellings” with “all residential dwellings except, Single-Family Dwellings”

R313.2 One- and two-family dwellings automatic fire systems.

An automatic residential fire sprinkler system shall be installed in ~~one—and two-family dwellings.~~ all residential dwellings except one- and two-family dwellings.

5. Section P2503.5.1 Remove the words, “Other than plastic”

P2503.5.1 Rough plumbing.

DWV systems shall be tested on completion of the rough piping installation by water or for piping systems, by air with no evidence of leakage. Either test shall be applied to the drainage system in its entirety or in sections after rough piping has been installed, as follows:

1. Water test. Each section shall be filled with water to a point not less than 10 feet above the highest fitting connection in that section, or to the highest point in the completed system. Water shall be held in the section under test for a period of 15 minutes. The system shall prove leak free by visual inspection.
2. Air test. The portion under test shall be maintained at a gauge pressure of 5 pounds per square inch (psi) or 10 inches of mercury column. This pressure shall be held without introduction of additional air for a period of 15 minutes.

**TABLE 502.2(1)
BUILDING ENVELOPE REQUIREMENTS – OPAQUE ASSEMBLIES**

CLIMATE ZONE	1	2	3	4 except Marine	5 and Marine 4	6	7	8
Roofs								
Insulation entirely above deck	R-15 ci	R-15 ci	R-15 ci	R-15 ci	R-20 ci	R-20 ci	R-25 ci	R-25 ci
Metal buildings (with R-5 thermal blocks) ^a	R-19 + R-10	R-19	R-19	R-19	R-19	R-19	R-19 + R-10	R-19 + R-10
Attic and other	R-30	R-30	R-30	R-30	R-30	R-30	R-38	R-38
Walls, Above Grade								
Mass	NR	NR	R-5.7 c ^{a,*}	R-5.7 c ^f	R-7.6 ci	R-9.5 ci	R-11.4 ci	R-13.3 ci
Metal building ^a	R-13	R-13	R-13	R-13	R-13 + R-13	R-13 + R-13	R-13 + R-13	R-13 + R-13
Metal framed	R-13	R-13	R-13	R-13	R-13 + R-3.8 ci	R-13 + R-3.8 ci	R-13 + R-7.5 ci	R-13 + R-7.5 ci
Wood framed and other	R-13	R-13	R-13	R-13	R-13	R-13	R-13	R-13 + R-7.5 ci
Walls, Below Grade								
Below grade wal ^f	NR	NR	NR	NR	NR	NR	R-7.5 ci	R-7.5 ci
Floors								
Mass	NR	R-5 ci	R-5 ci	R-10 ci	R-10 ci	R-10 ci	R-15 ci	R-15 ci
Joist/Framing	NR	R-19	R-19	R-19	R-19	R-30	R-30	R-30
Slab-on-Grade Floors								
Unheated slabs	NR	NR	NR	NR	NR	NR	NR	R-10 for 24 in. below
Heated slabs	R-7.5 for 12 in. below	R-7.5 for 24 in. below	R-10 for 36 in. below	R-10 for 36 in. below	R-10 for 48 in. below			
Opaque Doors								
Swinging	U – 0.70	U – 0.70	U – 0.70	U – 0.50				
Roll-up or sliding	U – 1.45	U – 0.50	U – 0.50	U – 0.50				

2. Replace Table R402.1.1 with Table 402.1.1 from the 2009 Edition of the IECC

**TABLE R402.1.1
INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT³**

CLIMATE ZONE	FENESTRATION U-FACTOR ^b	SKYLIGHT ^d U-FACTOR	GLAZED FENESTRATION SHGC ^{b,9}	CEILING R-VALUE	WOOD FRAME WALL R-VALUE	MASS WALL R-VALUE ^l	FLOOR R-VALUE	BASEMENT ^c WALL R-VALUE	SLAB ^d R-VALUE & DEPTH	CRAWL SPACE ^c WALL R-VALUE
1	NR	0.75	0.25	30	13	3/4	13	0	0	0
2	0.40	0.65	0.25	38	13	4/8	13	0	0	0
3	0.35	0.55	0.25	38	20 or 13+5 ⁿ	8/13	19	5/13 ^f	0	5/13
4 except Marine	0.35	0.55	0.40	49	20 or 13+5 ⁿ	8/13	19	10/13	10, 2 ft	10/13
5 and Marine 4	0.32	0.55	NR	49	20 or 13+5 ⁿ	13/17	30 ^g	15/19	10, 2 ft	15/19
6	0.32	0.55	NR	49	20+5 or 13+10 ⁿ	15/20	30 ^g	15/19	10, 4 ft	15/19
7 and 8	0.32	0.55	NR	49	20+5 or 13+10 ⁿ	19/21	38 ^g	15/19	10, 4 ft	15/19

**TABLE 402.1.1
INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT^a**

CLIMATE ZONE	FENESTRATION U-FACTOR	SKYLIGHT ^b U-FACTOR	GLAZED FENESTRATION SHGC	CEILING R-VALUE	WOOD FRAME WALL R-VALUE	MASS WALL R-VALUE	FLOOR R-VALUE	BASEMENT ^c WALL R-VALUE	SLAB ^d R-VALUE & DEPTH	CRAWL SPACE ^e WALL R-VALUE
1	1.20	0.75	0.40	30	13	3	13	0	0	0
2	0.75	0.75	0.40	30	13	4	13	0	0	0
3	0.65	0.65	0.40 [*]	30	13	5	19	0	0	5 / 13
4 except Marine	0.40	0.60	NR	38	13	5	19	10 / 13	10, 2 ft	10 / 13
5 and Marine 4	0.35	0.60	NR	38	19 or 13+5 ^f	13	30'	10 / 13	10, 2 ft	10 / 13
6	0.35	0.60	NR	49	19 or 13+5 ^f	15	30'	10 / 13	10, 4 ft	10 / 13
7 and 8	0.35	0.60	NR	49	21	19	30'	10 / 13	10, 4 ft	10 / 13

8-21 Penalty. It shall be illegal for any person to violate any provision of a code adopted by the City of Mt. Juliet. Violations shall be punished by a fine not to exceed One Hundred Dollars (\$100.00). Each day that a violation continues after due notice has been served shall be deemed a separate offense.

Effective Date:

The 2017 Edition of the National Electrical Code shall take effect on October 1, 2018

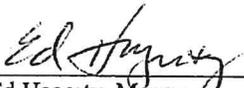
The 2018 Edition of the National Building Code shall take effect on January 1, 2019

BE IT FURTHER ORDAINED

In case of conflict between this ordinance or any part hereof, and the whole or part of any existing ordinance of the City, the most restrictive code provision will apply. If any section, clause, provision or portion of this ordinance is held to be invalid or unconstitutional by any court of competent jurisdiction, such holding shall not affect any other section, clause, provision or portion of this ordinance.

That nothing in this ordinance or in the International Building Codes hereby adopted shall be construed to affect any suit or proceedings pending in any, court, or any rights acquired, or liability incurred, or any cause or causes of action acquired or existing, under any act or ordinance hereby repealed, not shall may just or legal right, remedy of any character be lost, impaired or affected by this ordinance.

PASSED: 9/10/2018


Ed Hagerty, Mayor

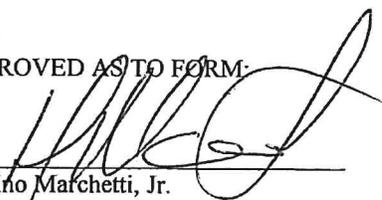
FIRST READING: 8/13/2018

SECOND READING: 9/10/2018

ATTEST:


Sheila S. Luckett, MMC
City Recorder

APPROVED AS TO FORM:


L. Gino Marchetti, Jr.
City Attorney


Kenneth D. Martin, City Manager