

ORDINANCE 1103

AN ORDINANCE OF THE CITY OF EUDORA, KANSAS ESTABLISHING CHAPTER 4, ARTICLE 14 OF THE CODE OF THE CITY OF EUDORA, KANSAS, 2018 EDITION, AND AMENDMENTS THERETO, WHICH ADOPTS AND INCORPORATES BY REFERENCE THE 2018 ENERGY CODE, REGULATING BUILDING AND CONSTRUCTION WITHIN THE CITY OF EUDORA, KANSAS.

BE IT ORDAINED BY THE GOVERNING BODY OF THE CITY OF EUDORA, KANSAS:

SECTION 1. The Code of the City of Eudora, Kansas, 2018 Edition, and amendments thereto, is hereby amended by enacting Chapter 4, Article 14, which reads as follows:

ARTICLE 14. ENERGY CONSERVATION CODE

4-1400. ADOPTION OF INTERNATIONAL ENERGY CONSERVATION CODE. The International Energy Conservation Code, 2018 Edition, as published by the International Code Council, is hereby adopted as the Energy Code of City of Eudora, Kansas, regulating and governing energy conservation in the incorporated areas of the City of Eudora, Kansas as herein provided; providing for the issuance of permits and collection of fees therefore; and each and all of the regulations, provisions, penalties, conditions and terms of said Energy Code are hereby adopted, and made a part thereof, as if fully set out herein, with the additions, insertions, deletions and changes hereinafter provided.

The regulations hereby adopted, as amended, shall be known as the Energy Code of the City of Eudora, Kansas, hereinafter interchangeably referred to as the "Code" or the "Energy Code" This Code shall not apply to the extent that the Residential Code adopted pursuant to Article 12 of this Chapter applies.

4-1401. COPIES. Not less than one copy of the International Energy Conservation Code 2018 Edition marked and stamped in the manner provided by K.S.A. 12-3304, shall be filed with the City Clerk and shall be open to inspection and available to the public at reasonable business hours. Subsequent references to the "Energy Code" shall mean the International Energy Conservation Code 2018 Edition, as adopted and amended herein.

4-1402. AMENDMENTS TO ENERGY CODE. The International Energy Conservation Code 2018 Edition is amended or supplemented as provided below.

4-1402.1 Chapter 1 of the Energy Code is deleted and replaced with the provisions of Article 1 of this Chapter 4.

4-1403. Table R402.1.1 is hereby amended to read as follows:

Table N1102.1.1 (R402.1.2). Insulation and Fenestration Requirements by Component. Table N1102.1.1 (R402.1.2). is amended to read as follows: (Wood Frame R-Value changed from R20 or 13+5^h to R15 or 13+2^h)

Table N1102.1.1 (R402.1.1) INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT¹

CLIMATE ZONE	FENESTRATION U-FACTOR	SKYLIGHT ^b U-FACTOR	GLAZED FENESTRATION SHGC	CEILING R-VALUE	WOOD FRAME WALL R-VALUE	MASS WALL R-VALUE ^k	FLOOR R-VALUE	BASEMENT ¹ WALL R-VALUE	SLAB ^h R-VALUE AND DEPTH	CRAWL SPACE ¹ 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	4/6	13	0	0	0
3	0.32	0.55	0.25	38	20 or 13+5 ^h	5/8	19	5/13 ⁱ	0	5/13
4 except Marine	0.32	0.55	0.40	49	15 or 13+2 ^h	5/10	19	10/13	10, 2ft	10/13
5 and Marine ⁴	0.30	0.55	NR	49	20 or 13+5 ^h	13/17	30g	15/19	10, 2ft	15/19
6	0.30	0.55	NR	49	20+5 ^h or 13+10 ^h	15/19	30g	15/19	10, 4 ft	15/19
7 and 8	0.30	0.55	NR	49	20+5 ^h or 13+10 ^h	19/21	38g	15/19	10, 4 ft	15/19

NR = Not Required.

For SI: 1 foot = 304.8 mm.

- a. R-values are minimums. U-factors and SHGC are maximums. When insulation is installed in a cavity which is less than the label or design thickness of the insulation, the installed R-value of the insulation shall not be less than the R-value specified in the table.
- b. The fenestration U-factor column excludes skylights. The SHGC column applies to all glazed fenestration. Exception: In Climate Zones 1 through 3, skylights will be permitted to be excluded from glazed fenestration SHGC requirements, provided that the SHGC for such skylights does not exceed 0.30.
- c. "10/13" means R-10 continuous insulation on the interior or exterior of the home or R-13 cavity insulation at the interior of the basement wall. "15/19" means R-15 continuous insulation on the interior or exterior of the home or R-19 cavity insulation at the interior of the basement wall. Alternatively, "15/19" shall be R-13 cavity insulation on the interior of the basement wall plus R-5 continuous insulation on the interior or exterior of the home.
- d. R-5 shall be provided under the full slab area of a heated slab in addition to the required slab edge insulation R-value for slabs, as indicated in the table. The slab edge insulation for heated slabs shall not be required to extend below the slab.
- e. There are no SHGC requirements in the Marine Zone.
- f. Basement wall insulation is not required in warm-humid locations as defined by Figure R301.1 and Table R301.1.
- g. Alternatively, insulation sufficient to fill the framing cavity and providing not less than an R-value of R-19.
- h. The first value is cavity insulation, the second value is continuous insulation. Therefore, as an example, "13+5" means R13 cavity insulation plus R-5 continuous insulation.
- i. Mass walls shall be in accordance with Section R402.2.5. The second R-value applies where more than half of the insulation is on the interior mass of the wall.

4-1004. Section 402.4.1.2 Testing. Delete section. Codes Administrator will perform an insulation inspection but will not require a blower door test.

4-1005. Section 403.5.1.1 Circulation systems. Is amended to read: Heated water circulation systems may be provided with a circulation pump. The system return pipe shall be a dedicated return pipe or a cold-water supply pipe. Controls for circulating hot water systems pumps shall start the pump based on the identification of a demand for hot water within the occupancy. The control shall automatically turn off the pump when the water in the circulation loop is at the desired temperature and when there is no demand for hot water.

4-1404. Section R403.5.3. Hot Water Pipe Insulation (Prescriptive). Is amended to read: Insulation for hot water pipe with a minimum thermal resistance (R-Value) of R-3 shall be applied to the following:

1. Piping located outside the conditioned space
2. Piping from the water heater to a distribution manifold
3. Piping located under a floor slab
4. Buried piping
5. Supply and return piping in recirculation systems other than demand recirculation systems

4-1405. Section R406.4. ERI-Based Compliance. Table R406.4. is amended to read as follows:

N1107.1. (R406.4) ERI-Based Compliance. Compliance based on an ERI analysis requires that the rated design be shown to have an ERI less than or equal to the appropriate value listed in Table N1106.4 when compared to the ERI reference design.

TABLE N1106.4 (R406.4)
MAXIMUM ENERGY RATING INDEX

CLIMATE ZONE	ENERGY RATING INDEX
1	52
2	52
3	51
4	80
5	55
6	54
7	53
8	53

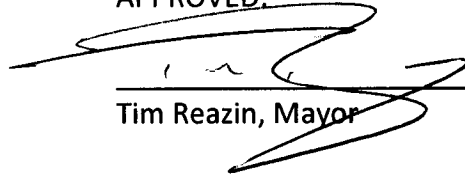
4-1408. SEVERABILITY. If any section, subsection, sentence, clause or phrase in this Article or in the Residential Code is, for any reason, held to be unconstitutional or invalid, such decision shall not affect the validity of the remaining portions hereof. The Codes Administrator declares that it would have passed this code, and each section, subsection, clause or phrase thereof, irrespective of the fact that any one or more sections, subsections, sentences, clauses and phrases be declared unconstitutional or invalid

4-1009. EXISTING RIGHTS OR VIOLATIONS. Nothing in this Article or in the Energy Code hereby adopted shall be construed to affect any suit or proceeding 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 resolution repealed in connection with the adoption of the Energy Code; nor shall any just or legal right or remedy of any character be lost, impaired or affected by this.

PASSED AND APPROVED this 12th day of November, 2019, by the Governing Body of the City of Eudora, Kansas.

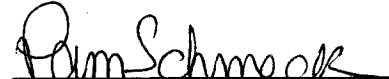
PASSED AND APPROVED this 12th day of November, 2019, by the Governing Body of the City of Eudora, Kansas.

APPROVED:

A handwritten signature in black ink, appearing to read 'Tim Reazin', written over a horizontal line.

Tim Reazin, Mayor

ATTEST:

A handwritten signature in black ink, appearing to read 'Pam Schmeck', written over a horizontal line.

Pam Schmeck, City Clerk