

★ **Roll Call Number**

Agenda Item Number

40 I

Date February 10, 2020

An Ordinance entitled, " AN ORDINANCE to amend the Municipal Code of the City of Des Moines, Iowa, 2000, adopted by Ordinance No. 13,827, passed June 5, 2000, as heretofore amended, by repealing and replacing Article II. Energy Code of Chapter 26, Buildings and Building Regulations, relating to adopting the 2018 edition of the State of Iowa Energy Code",

(Council Communication No. 20-049)

presented.

Moved by _____ that this ordinance be considered and given first vote for passage.

FORM APPROVED:

(First of three required readings)

Judy K. Parks-Kruse
 Judy K. Parks-Kruse
 Assistant City Attorney

COUNCIL ACTION	YEAS	NAYS	PASS	ABSENT
COWNIE				
BOESEN				
GATTO				
GRAY				
MANDELBAUM				
VOSS				
WESTERGAARD				
TOTAL				

MOTION CARRIED APPROVED

CERTIFICATE

I, P. Kay Cmelik, City Clerk of said City hereby certify that at a meeting of the City Council of said City of Des Moines, held on the above date, among other proceedings the above was adopted.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my seal the day and year first above written.

 Mayor

 City Clerk

ORDINANCE NO. _____

AN ORDINANCE to amend the Municipal Code of the City of Des Moines, Iowa, 2000, adopted by Ordinance No. 13,827, passed June 5, 2000, as heretofore amended, by repealing and replacing Article II. Energy Code of Chapter 26, Buildings and Building Regulations, relating to adopting the 2018 edition of the State of Iowa Energy Code.

Be It Ordained by the City Council of the City of Des Moines, Iowa:

Section 1. That the Municipal Code of the City of Des Moines, Iowa, 2000, adopted by Ordinance No. 13,827, passed June 5, 2000, as heretofore amended, is hereby amended by repealing and replacing Article II. Energy Code of Chapter 26, Buildings and Building Regulations, relating to adopting the 2018 edition of the State of Iowa Energy Code as follows:

ARTICLE II. ENERGY CODE

~~Division 1. Generally~~

~~**Sec. 26-200. Adoption of the International Energy Conservation Code.**~~

- ~~(a) This article shall consist of the International Energy Conservation Code ("IECC"), 2015 edition, published by the International Code Council, including both the Commercial Provisions and the Residential Provisions thereof, which are incorporated by this reference in their entirety, except as otherwise indicated in this article.~~
- ~~(b) This article and all provisions incorporated in this article, by reference or otherwise, shall be known as the energy code. References to section numbers in this article not preceded by "26-" will be to sections in the IECC. References to sections numbers in this article preceded with a "C" will be to the Commercial Provisions in the IECC. References in this article to sections preceded with an "R" will be to the Residential Provisions in the IECC.~~
- ~~(c) Nothing in this division shall be interpreted to apply a lower standard or requirement than imposed by the residential energy code or the nonresidential energy code of the state of Iowa building code. In the event the residential energy code or the nonresidential energy code of the state of Iowa building code imposes a higher standard or requirement, the applicable energy code of the state of Iowa building code shall be enforced in lieu of this division.~~

~~Division 2. Deletions and Amendments~~

~~**Sec. 26-210. Deletions.**~~

~~The following sections are deleted from the International Energy Conservation Code, and are of no force or effect in this article:~~

- (1) ~~Section C109~~
- (2) ~~Section R109~~

Sec. 26-211. Amendments and additions.

~~The remaining sections in this division are and represent amendments and additions to the requirements contained in the International Energy Conservation Code, and where their requirements conflict with that code, the requirements of this division shall prevail.~~

Sec. 26-212. Statement of review.

~~A statement that a review has been accomplished and that the design is in compliance with the energy efficiency standards shall be provided. If the building volume exceeds 100,000 cubic feet of enclosed space that is heated or cooled, the review shall be signed and sealed by the responsible registered architect or licensed professional engineer. This statement shall be filed with the building official on a form approved by the building official prior to construction or before obtaining building permits. The building official may issue permits for footings and foundations prior to the submittal of the statement of review.~~

Sec. 26-213. Scope of IECC residential provisions.

~~Delete section R101.2 of the IECC and insert in lieu thereof the following new section:~~

~~R101.2 Scope. This code applies to residential buildings and the buildings' sites and associated systems and equipment, except the remodeling or renovation of one- and two-family dwelling units. The remodeling or renovation of one- and two-family dwelling units is not within the scope of the IECC or this article.~~

Sec. 26-214. Testing.

~~Delete the first three sentences of section R402.4.1.2 of the IECC and insert in lieu thereof the following new sentences:~~

~~The building or dwelling unit shall be tested and verified as having an air leakage rate not exceeding 4 air changes per hour. Testing shall be conducted with a blower door at a pressure of 0.2 inches w.g. (50 Pascals). Testing shall be conducted by an approved third party holding one of the following certifications, or an equivalent certification approved by the building official:~~

- ~~(1) Building Analyst certified by Building Performance Institute, Inc.~~
- ~~(2) Home Energy Rating System Rater certified by Residential Energy Services Network.~~
- ~~(3) Duct and Envelope Tightness (DET) Verifier certified by the Illinois Association of Energy Raters.~~

Sec. 26-215. Sealing.

~~Delete section R403.3.2 of the IECC and insert in lieu thereof the following new section:~~

~~R403.3.2 Sealing (mandatory). Ducts, air handlers, and filter boxes shall be sealed. Joints and seams shall comply with either the State Mechanical Code or International Residential Code, as applicable.~~

~~EXCEPTIONS:~~

- ~~(1) — Air impermeable spray foam products shall be permitted to be applied without additional joint seals.~~
- ~~(2) — Where a duct connection is made that is partially inaccessible, three screws or rivets shall be equally spaced on the exposed portion of the joint so as to prevent a hinge effect.~~
- ~~(3) — Continuously welded and locking type longitudinal joints and seams in ducts operating at static pressures less than 2 inches of water column (500 Pa) pressure classification shall not require additional closure systems.~~

Sec. 26-216 Duct leakage (Prescriptive).

Delete section R403.3.4 and insert in lieu thereof the following new section:

~~R403.3.4 Duct Leakage (Prescriptive). The total leakage of the ducts, where measured in accordance with Section R403.3.3 shall be as follows:~~

- ~~(1) — Rough in test: Total leakage shall be less than or equal to 6 cfm (170 L/min) per 100 square feet (9.29 m²) of conditioned floor area where the air handler is installed at the time of the test. If the air handler is not installed at the time of the test, total leakage shall be less than or equal to 3 cfm (85 L/min) per 100 square feet (9.29 m²) of conditioned floor area.~~
- ~~(2) — Postconstruction test: Leakage to outdoors shall be less than or equal to 4 cfm (113.3 L/min) per 100 square feet (9.29 m²) of conditioned floor area or total leakage shall be less than or equal to 6 cfm (170 L/min) per 100 square feet (9.29 m²) of conditioned floor.~~

Sec. 26-217. Building cavities.

Delete section R403.3.5 of the IECC and insert in lieu thereof the following new section:

~~R403.3.5 Building cavities (mandatory). Building framing cavities shall not be used as supply ducts. Building framing cavities may be used as return ducts only if both of the following conditions exist:~~

- ~~(1) — Ducts must be tested for duct leakage in accordance with section R403.3.3.~~
- ~~(2) — Exterior wall cavities shall not be used for return ducts.~~

~~Sec. 26-218. Commissioning Agent for commercial buildings.~~

~~Insert the following at the end of section C408.2. The commissioning agent shall be in no way affiliated with the project's design, installation or sale of products, to avoid any conflict of interest. The commissioning agent shall be accredited by an industry recognized certification program that is acceptable to the authority having jurisdiction.~~

ARTICLE II. ENERGY CODE


Division 1. Generally

Sec. 26-200. Adoption of the State Residential and Non-Residential Energy Code

- (a) The provisions of the 2019 edition of the State of Iowa Building Code, Section 103A.8A – Energy Conservation Requirements, and 103A.10(5) – Effect and Application, and 2019 edition of Iowa Administrative Code rules 661-Chapters 303.1, 303.2, and 303.3, are hereby adopted by reference as the Residential and Non-residential Energy Code in the City of Des Moines.
- (b) This article and all provisions incorporated in this article, by reference or otherwise, shall be known as the Energy Code. References to section numbers not preceded by "26-" will be to sections in the State of Iowa Energy Code.

Section 2. This ordinance shall be in full force and effect from and after its passage and publication as provided by law.

FORM APPROVED:



Judy K. Parks-Kruse
Assistant City Attorney