

**ORDINANCE NO. 2017-04-13**

**AN ORDINANCE OF THE CITY OF LANCASTER, TEXAS, REPEALING THE ENERGY CONSERVATION CODE 2012 EDITION IN ITS ENTIRETY AND REPLACING IT WITH THE ADOPTION OF THE ENERGY CONSERVATION CODE 2015 EDITION BY ADOPTING CHAPTER 6, BUILDING REGULATIONS, ARTICLE 6.04 TECHNICAL AND CONSTRUCTION CODES AND STANDARDS, DIVISION 10, ENERGY CONSERVATION CODE; TO PROVIDE FOR THE AMENDMENTS TO THERETO; PROVIDING A PENALTY OF FINE NOT TO EXCEED TWO THOUSAND DOLLARS (\$2,000.00); PROVIDING FOR SEVERABILITY; PROVIDING A SAVINGS CLAUSE; PROVIDING A REPEALING CLAUSE; AND PROVIDING FOR AN EFFECTIVE DATE.**

**NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF LANCASTER, TEXAS:**

**SECTION 1.** That Chapter 6 of the Lancaster Code of Ordinances be, and the same is, hereby repealed the Energy Conservation Code 2012 in its entirety and replacing it with Energy Conservation Code 2015, by adopting Chapter 6 Building Regulations, Article 6.04 Technical and Construction Codes and Standards, Division 10, Energy Conservation Code to provide for the amendments to thereto, which shall read as follows:

**“ARTICLE 6.04 TECHNICAL AND CONSTRUCTION CODES AND STANDARDS**

....

**Division 10. Energy Conservation Code**

**Sec. 6.04.451 Adoption**

For the purpose of regulating and controlling conditions hazardous to public health, safety and welfare from the installation of energy efficient mechanical lighting and power systems the International Energy Conservation Code, 2015 Edition, as amended herein, and the same is hereby incorporated by reference as if fully copied, subject to the exceptions and amendments described in Section 6.04.452 of this Article. That one copy of each volume of such code shall be kept at all times in the office of the city secretary, together with the exceptions and amendments.

**Sec. 6.04.452. Exceptions and Amendments**

The energy conservation code adopted in this article shall be subject to the exceptions and amendments to the International Energy Conservation Code, 2015 Edition, as follows:

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**To amend Section C102/R102 by adding Section C102.1.2 and R102.1.2 to read as follows:**

“.....

**C102.1.2 Alternative compliance.** A building certified by a national, state, or local accredited energy efficiency program and determined by the Energy Systems Laboratory to be in compliance with the energy efficiency requirements of this section may, at the option of the Code Official, be considered in compliance. The United States Environmental Protection Agency’s Energy Star Program certification of energy code equivalency shall be considered in compliance.

.....

**R102.1.2 Alternative compliance.** A building certified by a national, state or local accredited energy efficiency program and determined by the Energy Systems Laboratory to be in compliance with the energy efficiency requirements of this section may, at the option of the Code Official, be considered in compliance. The United States Environmental Protection Agency’s Energy Star Program certification of energy code equivalency shall be considered in compliance. Regardless of the program or the path to compliance each 1- and 2-family dwelling shall be tested for air and duct leakage as prescribed in Section R402.4 and R403.3.3 respectively.”

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**To amend Section C202 and R202 by adding the following definition:**

“.....

**PROJECTION FACTOR.** The ratio of the horizontal depth of the overhang, eave or permanently attached shading device, divided by the distance measured vertically from the bottom of the fenestration glazing to the underside of the overhang, eave or permanently attached shading device.

.....”

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**To amend Section R202 by adding the following definition:**

“.....

**DYNAMIC GLAZING.** Any fenestration product that has the fully reversible ability to change its performance properties, including U-factor, solar heat gain coefficient (SHGC), or visible transmittance (VT).

.....”

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To amend Table R402.1.2 INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT by amending the WOOD FRAME WALL R-VALUE for CLIMATE ZONE 3 to read as follows:

“ 13 ”

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To amend Table R402.1.4 EQUIVALENT U-FACTORS amending the WOOD FRAME WALL U-FACTOR for CLIMATE ZONE 3 to read as follows:

“0.082”

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To amend Section R402.3.2 Glazed fenestration SHGC by adding a paragraph and table following the exception to read as follows:

“Where vertical fenestration is shaded by an overhand, eave, or permanently attached shading device, the SHGC required in Table R402.1.2 shall be reduced by using the multipliers in Table R402.3.2 SHGC Multipliers for Permanent Projections.

**Table R402.3.2 SHGC Multipliers for Permanent Projections <sup>a</sup>**

Projection Factor	SHGC Multiplier (all Other Orientation)	SHGC Multiplier (North Oriented)
0 – 0.10	1.00	1.00
>0.10 – 0.20	0.91	0.95
>0.20 – 0.30	0.82	0.91
>0.30 – 0.40	0.74	0.87
>0.40 – 0.50	0.67	0.84
>0.50 – 0.60	0.61	0.81
>0.60 – 0.70	0.56	0.78
>0.70 – 0.80	0.51	0.76
>0.80 – 0.90	0.47	0.75
>0.90 – 1.00	0.44	0.73

<sup>a</sup> North oriented means within 45 degrees of true north.

**To amend Section R402.4.1.2 to read as follows:**

“R402.4.1.2 Testing. The building or dwelling unit shall be tested and verified as having an air leakage rate of not exceeding 5 air changes per hour in Climate Zone .....

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**To amend Section R402.4.1.2 Testing by adding last paragraph to read as follows:**

“.....

Mandatory testing shall only be performed by individuals that are certified to perform air infiltration testing certified by national or state organizations as approved by the building official. The certified individuals must be an independent third-party entity, and may not be employed; or have any financial interest in the company that constructs the structure.”

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**To amend Section R403.3.3 by adding a last paragraph to read as follows:**

“.....

Mandatory testing shall only be performed by individuals that are certified to perform duct testing leakage testing certified by national or state organizations as approved by the building official. The certified individuals must be an independent third-party entity, and may not be employed; or have any financial interest in the company that constructs the structure.”

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**To amend Section C402.2.7/R402.2 by adding Section C402.2.9 and R402.2.14 to read as follows:**

“.....

**Section C402.2.7/R402.2.14 Insulation installed in walls.** To insure that insulation remains in place, insulation installed in walls shall be totally enclosed on all sides consisting of framing lumber, gypsum, sheathing, wood structural panel sheathing, netting or other equivalent material approved by the building official.”

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To amend Section R405.6.2 by adding the following sentence to the end of paragraph:

“.....

Acceptable performance software simulation tools may include, but are not limited to, REM Rate<sup>TM</sup>, Energy Gauge and IC3. Other performance software programs accredited by RESNET BESTEST and having the ability to provide a report as outlined in R405.4.2 may also be deemed acceptable performance simulation programs and may be considered by the building official.”

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To amend TABLE R406.4 MAXIMUM ENERGY RATING INDEX to read as follows:

**“TABLE R406.4<sup>1</sup>  
MAXIMUM ENERGY RATING INDEX**

<b>CLIMATE ZONE</b>	<b>ENERGY RATING INDEX</b>
3	65

<sup>1</sup> This table is effective until August 31, 2019

**TABLE R406.4<sup>2</sup>  
MAXIMUM ENERGY RATING INDEX**

<b>CLIMATE ZONE</b>	<b>ENERGY RATING INDEX</b>
3	63

<sup>2</sup> This table is effective from September 1, 2019 to August 31, 2022

**TABLE R406.4<sup>3</sup>  
MAXIMUM ENERGY RATING INDEX**

<b>CLIMATE ZONE</b>	<b>ENERGY RATING INDEX</b>
3	59

<sup>3</sup> This table is effective on or after September 1, 2022”

**SECTION 2.** Any person, firm or corporation violating any of the provisions of this ordinance or the provisions of the Code of Ordinances of the City of Lancaster, Texas, as amended hereby, shall be deemed guilty of a misdemeanor and, upon conviction in the municipal court of the City of Lancaster, Texas, shall be subject to a fine not to exceed the sum of Two Thousand (\$2,000.00) dollars for each offense, and each and every day such offense shall continue shall be deemed to constitute a separate offense.

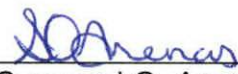
**SECTION 3.** That all provisions of the Ordinances of the City of Lancaster, Texas, in conflict with the provisions of this ordinance be, and the same are hereby, repealed, and all other provisions of the Ordinances of the City not in conflict with the provisions of this ordinance shall remain in full force and effect.

**SECTION 4.** That should any word, sentence, paragraph, subdivision, clause, phrase or section of this ordinance, or of the Code of Ordinances, as amended hereby, be adjudged or held to be void or unconstitutional, the same shall not affect the validity of the remaining portions of said ordinance or the Code of Ordinances, as amended hereby, which shall remain in full force and effect.


**SECTION 5.** That this ordinance shall take effect immediately from and after its passage as the law and charter in such cases provide.

**DULY PASSED** and approved by the City Council of the City of Lancaster, Texas, this the 10<sup>th</sup> day of April, 2017.

**ATTEST:**

  
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Sorangel O. Arenas, City Secretary

**APPROVED:**

  
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Marcus E. Knight, Mayor

**APPROVED AS TO FORM:**

  
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Robert E. Hager, City Attorney