

ORDINANCE NO. 2002-00112

AN ORDINANCE AMENDING ARTICLE III OF CHAPTER 6 OF THE CODE OF ORDINANCES OF THE CITY OF LUBBOCK, TEXAS, WITH REGARD TO ADOPTING THE 2000 EDITION OF THE INTERNATIONAL ENERGY CONSERVATION CODE AND PROVIDING FOR CERTAIN AMENDMENTS TO SUCH CODE IN ORDER TO MEET LOCAL CONDITIONS; PROVIDING A PENALTY; PROVIDING A SAVINGS CLAUSE; AND PROVIDING FOR PUBLICATION.

WHEREAS, it is the opinion of the City Council that the best interests of the citizens of the City of Lubbock would be served by adopting the 2000 Edition of the International Energy Conservation Code for Lubbock with certain amendments to meet local conditions; NOW THEREFORE:

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF LUBBOCK:

SECTION 1. THAT Section 6-701 of the Code of Ordinances of the City of Lubbock, Texas, shall read as follows:

Sec. 6-701. International Energy Conservation Code adopted.

The 2000 Edition of the International Energy Conservation Code is a copyrighted work owned by the International Code Council, Inc; A copy of said Energy Conservation code is attached hereto and incorporated herein as though set out herein in detail. References to the Energy Conservation code in this chapter shall mean the 2000 Edition of the International Energy Conservation Code. One copy of the 2000 Energy Conservation Code shall be filed with the City Secretary and a copy shall be maintained in the office of the City Building Official. All such copies, with the amendments thereto, shall be open to public inspection during the usual hours of business of the offices where they are maintained.

SECTION 2. THAT Section 6-702 of the Code of Ordinances of the City of Lubbock, Texas shall read as follows:

Sec. 6-702. Title.

101.1 Title. Shall be amended to read:

This code shall be known as the International Energy Conservation Code of the City of Lubbock, Texas and shall be cited as such. It is referred to herein as "this code".

SECTION 3. THAT Section 6-703 of the Code of Ordinances of the City of Lubbock, Texas shall read as follows:

Sec. 6-703. Exempt buildings.

101.4.1 Exempt buildings. Shall be amended to read:

Buildings and structures indicated in Sections 101.4.1.1 and 101.4.1.2 and 101.4.1.3 shall be exempt from the provisions of this code. Commercial buildings provided with service water heating and/or electric lighting shall meet the applicable provisions of Chapter 7 or 8 regardless of this exempt status.

SECTION 4. THAT Section 6-704 of the Code of Ordinances of the City of Lubbock, Texas shall read as follows:

Sec. 6-704. Hospitals and research laboratories.

101.4.1.3 Hospitals and research laboratories. Shall be amended by adding this subsection to read as follows:

Hospitals that are licensed by the Texas Department of Health shall be exempt from the provisions of this code. Research laboratory buildings containing fume hoods and other HVAC systems for the protection of occupants shall be exempt from the provisions of this code.

SECTION 5. THAT Section 6-705 of the Code of Ordinances of the City of Lubbock, Texas shall read as follows:

Sec. 6-705. Board of Appeals

SECTION 108 BOARD OF APPEALS. Section 108 of the 2000 International Energy Conservation Code is hereby created and amended to read as follows:

Establishment and membership. In order to determine the suitability of alternate materials and methods of construction and to provide for reasonable interpretation of the provisions of this Code, there is hereby created a board of appeals, consisting of eleven (11) members who are qualified by experience and training to pass upon matters pertaining to building construction. The membership of the board of appeals shall include one or more representatives from the following named areas of expertise:

- (1) A member of the Lubbock Home Builders Association;
- (2) An active architect;
- (3) An active structural engineer;
- (4) An active commercial contractor;
- (5) An active realtor;
- (6) An active master plumber;
- (7) An active journeyman plumber;
- (8) An active mechanical contractor with a class A license; and
- (9) Three (3) Lubbock citizens.

The building official shall be an ex officio member and shall act as secretary of the board. The board of appeals shall be appointed by the governing body of the city and shall hold office for a term of two (2) years and until their successors are qualified. The presently constituted board members shall continue in their offices for their regular terms.

Scope. The board shall adopt reasonable rules and regulations for the conduct of its investigations and shall render all decisions and findings in writing to the building official with a duplicate copy to the appellant and the board may recommend new legislation to the city council consistent with its findings.

Jurisdiction. The board of appeals shall have the authority and is vested with the jurisdiction to hear and determine requests for substitution of alternate systems from those provided in the 2000 International Energy Conservation Code and the 1991 Uniform Fire Code, as adopted by the city in Article VI of Chapter 6 of the Code of Ordinances.

Hearings. Application for hearing shall be as follows:

The owner of an existing building which does not constitute a public nuisance as declared in Section 102 of the 1997 Uniform Building Code, but may otherwise constitute a danger to human life if permitted to be occupied or used unless altered, changed, converted or repaired in conformance with the building code, fire code or other pertinent governing ordinances of the city, shall in cases when compliance with such codes presents a practical difficulty or unnecessary hardship, make written application to the building board of appeals, on forms to be furnished by the building official, for a recommendation as herein provided or substitution of an alternate system to that required by the various pertinent codes and ordinances.

- (1) Each applicant shall, upon making such application, submit to the board of appeals sufficient technical data to demonstrate that the new method or device is equivalent in quality, strength, fire resistance, effectiveness and safety to that prescribed by the governing code of ordinances.

Limitations of authority. The board of appeals shall have no authority relative to interpretation of the administrative provisions of this Code nor shall the board be empowered to waive requirements of this Code.

SECTION 6. THAT Section 6-706 of the Code of Ordinances of the City of Lubbock, Texas shall read as follows:

Sec. 6-706. EXTERIOR DESIGN CONDITIONS.

Table 302.1 EXTERIOR DESIGN CONDITIONS. Amend table to read:

TABLE 302.1
EXTERIOR DESIGN CONDITIONS

CONDITION	VALUE
Winter, Design Dry-bulb (°F)	15°
Summer, Design Dry-bulb (°F)	96°
Summer, Design Wet-bulb (°F)	69°
Degree days heating	3499
Degree days cooling	1738
Climate zone	7-B

SECTION 7. THAT Section 6-707 of the Code of Ordinances of the City of Lubbock, Texas, shall read as follows:

Sec. 6-707. Moisture control.

502.1.1 Moisture control. Amend by deleting sub-section.

SECTION 8. THAT Section 6-708 of the Code of Ordinances of the City of Lubbock, Texas, shall read as follows:

Sec. 6-708. HEATING AND COOLING CRITERIA.

Table 502.2 HEATING AND COOLING CRITERIA. Amend table to read:

TABLE 502.2
HEATING AND COOLING CRITERIA

ELEMENT	MODE	TYPE A-1	TYPE A-2
		RESIDENTIAL BUILDINGS	RESIDENTIAL BUILDINGS
		U _o	U _o
Walls	Heating or		
	Cooling	.166	.215
Roof/ceiling	Heating or cooling	.036	.036
Floors over unheated spaces	Heating or cooling	.05	.05
Heated slab on Grade	Heating	R-value =	R-value =
		5.19	5.19
Unheated slab on grade	Heating	R-value =	R-value =
		4.0	4.0
Basement wall	Heating or cooling	U-factor =	U-factor =
		.125	.125
Crawl space wall	Heating or cooling	U-factor =	U-factor =
		.11	.11

SECTION 9. THAT Section 6-709 of the Code of Ordinances of the City of Lubbock, Texas, shall read as follows:

Sec. 6-709. Slab-on-grade floors.

502.2.1.4 Slab-on-grade floors. Amend by deleting sub-section.

SECTION 10. THAT Section 6-710 of the Code of Ordinances of the City of Lubbock, Texas, shall read as follows:

Sec. 6-710. Basement walls.

502.2.1.6 Basement walls. Amend by deleting sub-section.

SECTION 11. THAT Section 6-711 of the Code of Ordinances of the City of Lubbock, Texas, shall read as follows:

Sec. 6-711. Basement walls.

502.2.3.6 Basement walls. Amend by deleting sub-section.

SECTION 12. THAT Section 6-712 of the Code of Ordinances of the City of Lubbock, Texas, shall read as follows:

Sec. 6-712. Tables 502.2.4(1), (2), (3), (4), (5), (6), (7), (8), and (9).

Tables 502.2.4(1), (2), (3), (4), (5), (6), (7), (8), and (9). Amend to read:

HDD 1500-3499: Basement wall R-value (R-0)

SECTION 13. THAT Section 6-713 of the Code of Ordinances of the City of Lubbock, Texas, shall read as follows:

Sec. 6-713. Table 502.2.4(3).

Table 502.2.4(3) Amend to read:

HDD 2500-2599 and 3000-3499: Slab perimeter R-value (R-0)

SECTION 14. THAT Section 6-714 of the Code of Ordinances of the City of Lubbock, Texas, shall read as follows:

Sec. 6-714. Thermostatic control capabilities.

503.3.2.2 Thermostatic control capabilities. The third paragraph shall be amended to read:

Where used to control both comfort heating and cooling, thermostatic controls shall be capable of providing a temperature range or dead band of at least 2°F within which the supply of heating and cooling energy is shut off or reduced to a minimum.

SECTION 15. THAT Section 6-715 of the Code of Ordinances of the City of Lubbock, Texas, shall read as follows:

Sec. 6-715. Piping insulation.

503.3.3.1 Piping insulation. Amend first paragraph to read:

All HVAC refrigerant system piping shall be insulated with 3/8 inch wall closed cell insulation. All HVAC heating system piping shall be thermally insulated in accordance with Table 503.3.3.1.

SECTION 16. THAT Section 6-716 of the Code of Ordinances of the City of Lubbock, Texas, shall read as follows:

Sec. 6-716. Table 503.3.3.3

Table 503.3.3.3 MINIMUM DUCT INSULATION. Amend as follows:

COOLING	HEATING
Annual cooling degree days: 1,151 to 2,000	Annual heating degree days: 1,500 to 4,500
Insulation R-value: 6.0	Insulation R-value: 6.0

SECTION 17. THAT Section 6-717 of the Code of Ordinances of the City of Lubbock, Texas, shall read as follows:

Sec. 6-717. Time clocks.

504.3.3 Time clocks. Amend by deleting sub-section.

SECTION 18. THAT Section 6-718 of the Code of Ordinances of the City of Lubbock, Texas, shall read as follows:

Sec. 6-718. Residential buildings, Type A-1.

601.2.1 Residential buildings, Type A-1. Shall be amended to read as follows:

Compliance shall be demonstrated by any one of the following:

1. Meeting the requirements of this chapter for buildings with a glazing area that does not exceed 15 percent of the gross area of exterior walls.

2. Meeting the requirements of this chapter for buildings with a glazing area that is greater than 15 percent but not exceeding 20 percent of the gross area of exterior walls and air conditioning equipment rated 12 SEER or higher.
3. Meeting the requirements of this chapter for buildings with a glazing area that is greater than 20 percent but not exceeding 25 percent of the gross area of exterior walls and air conditioning equipment rated 13 SEER or higher.
4. Meeting the requirements of Chapter 4 or Chapter 5 for residential buildings, Type A-1.

SECTION 19. THAT Section 6-719 of the Code of Ordinances of the City of Lubbock, Texas, shall read as follows:

Sec. 6-719. Thermal performance criteria.

602.1 Thermal performance criteria. Amend 2nd paragraph to read:

Type A-1 residential buildings, with greater than 25 percent glazing area; Type A-2 residential buildings, with greater than 25 percent glazing area; and any residential building in climates with heating degree days (HDD) equal to or greater than 13,000; shall determine compliance using the building envelope requirements of Chapter 4 or Chapter 5.

SECTION 20. THAT Section 6-720 of the Code of Ordinances of the City of Lubbock, Texas, shall read as follows:

Sec. 6-720. Table 602.1

Table 602.1 Shall be amended as follows:

SIMPLIFIED PRESCRIPTIVE BUILDING ENVELOPE THERMAL COMPONENT CRITERIA
MINIMUM REQUIRED THERMAL PERFORMANCE (U-FACTOR AND R-VALUE)

HDD	Maximum Glazing U-factor	Ceiling R-value	Wall R-value	Floor R-value	Basement Walls R-value	Slab Perimeter R-value and depth	Crawl space wall R-value
0-499	Any	R-13	R-11	R-11	R-0	R-0	R-0
500-999	0.90	R-19	R-11	R-11	R-0	R-0	R-4
1,000-1,499	0.75	R-19	R-11	R-11	R-0	R-0	R-5
1,500-1,999	0.75	R-26	R-13	R-11	R-0	R-0	R-5
2,000-2,499	0.65	R-30	R-13	R-11	R-0	R-0	R-6
2,500-2,999	0.60	R-30	R-13	R-19	R-0	R-0	R-7
3,000-3,499	0.55	R-30	R-13	R-19	R-0	R-0	R-8
3,500-3,999	0.50	R-30	R-13	R-19	R-8	R-5, 2 FT.	R-10
4,000-4,499	0.45	R-38	R-13	R-19	R-8	R-5, 2 FT.	R-11
4,500-4,999	0.45	R-38	R-16	R-19	R-9	R-6, 2 FT.	R-17
5,000-5,499	0.45	R-38	R-18	R-19	R-9	R-6, 2 FT.	R-17
5,500-5,999	0.40	R-38	R-18	R-21	R-10	R-9, 4 FT.	R-19
6,000-6,499	0.35	R-38	R-18	R-21	R-10	R-9, 4 FT.	R-20
6,500-6,999	0.35	R-49	R-21	R-21	R-11	R-11, 4 FT.	R-20
7,000-8,499	0.35	R-49	R-21	R-21	R-11	R-13, 4 FT.	R-20
8,500-8,999	0.35	R-49	R-21	R-21	R-18	R-14, 4 FT.	R-20
9,000-12,999	0.35	R-49	R-21	R-21	R-19	R-18, 4 FT.	R-20

For S1: 1 foot = 304.8 mm.

SECTION 21. THAT Section 6-721 of the Code of Ordinances of the City of Lubbock, Texas, shall read as follows:

Sec. 6-721. Ceilings.

602.1.2 Ceilings. Amend by deleting sub-section.

SECTION 22. THAT Section 6-722 of the Code of Ordinances of the City of Lubbock, Texas, shall read as follows:

Sec. 6-722. Cooling with outdoor air.

803.2.6 Cooling with outdoor air. Amend first paragraph to read as follows:

Each system over 90,000 Btu/h cooling capacity or 3,000 cfm located in other than Climate Zones 1,2, or 3b as shown in Table 302.1 shall have an economizer, when required by building specifications, that will automatically shut off the cooling system and allow all of the supply air to be provided directly from outdoors.

SECTION 23. THAT Section 6-723 of the Code of Ordinances of the City of Lubbock, Texas, shall read as follows:

Sec. 6-723. Set point overlap restriction.

803.3.3.2 Set point overlap restriction. Amend to read.

Where used to control both heating and cooling, zone thermostatic controls shall provide a temperature range or deadband of at least 2°F within which the supply of heating and cooling energy to the zone is capable of being shut off or reduced to a minimum.

SECTION 24. THAT Section 6-724 of the Code of Ordinances of the City of Lubbock, Texas, shall read as follows:

Sections 6-724. through 6-800. Reserved.

SECTION 25. THAT violation of any provision of this Ordinance shall be deemed a misdemeanor punishable as provided by Section 1-4 of the Code of Ordinances of the City of Lubbock.

SECTION 26. THAT should any paragraph, sentence, clause, phrase or word of this Ordinance be declared unconstitutional or invalid for any reason, the remainder of this Ordinance shall not be affected thereby.

SECTION 27. THAT the City Secretary is hereby authorized to cause publication of the descriptive caption of this Ordinance as an alternative method provided by law.

AND IT IS SO ORDERED.

Passed by the City Council on first reading this 24th day of October, 2002.

Passed by the City Council on second reading this 14th day of November, 2002.

MARC McDOUGAL, MAYOR

ATTEST:

Rebecca Garza, City Secretary

APPROVED AS TO CONTENT:

/s/ Aubrey Long
Aubrey Long, Interim Building Official

APPROVED AS TO FORM:

/s/ John Knight
John Knight, Assistant City Attorney