6/27/2012 MWN

ORDINANCE NO. 7352

AN ORDINANCE OF THE CITY COMMISSION OF THE CITY OF AMARILLO, TEXAS: AMENDING THE MUNICIPAL CODE OF THE CITY OF AMARILLO, CHAPTER 4-3, ARTICLE IV, SECTION 4-3-41 TO ADOPT THE *2012* EDITION OF THE *INTERNATIONAL ENERGY CONSERVATION CODE*, WITH AMENDMENTS, REGULATING AND GOVERNING ENERGY EFFICIENT BUILDING ENVELOPES AND INSTALLATION OF ENERGY EFFICIENT MECHANICAL, LIGHTING AND POWER SYSTEMS; PROVIDING FOR THE ISSUANCE OF PERMITS AND COLLECTION OF FEES; PROVIDING FOR SEVERABILITY; PROVIDING FOR REPEALER; PROVIDING FOR CONTINUATION OF PRIOR LAW; PROVIDING A PENALTY; PROVIDING FOR PUBLICATION AND EFFECTIVE DATE.

WHEREAS, upon the recommendation of the Construction Advisory and Appeals Board, the City Commission now finds it is in the best interests of public health, safety, and welfare to adopt the *2012* edition of the *International Energy Conservation Code* to regulate and govern energy efficient building envelopes and installation of energy efficient mechanical, lighting and power systems, and providing for the issuance of permits and collection of fees.

NOW, THEREFORE, BE IT ORDAINED BY THE CITY COMMISSION OF THE CITY OF AMARILLO, TEXAS:

SECTION 1. That Chapter 4-3, Article IV, is hereby repealed and deleted in its entirety.

SECTION 2. That Chapter 4-3, Article IV, Section 4-3-41 be and hereby is now re-enacted to now read as follows:

Sec. 4-3-41. Adoption of energy conservation code with amendments.

Code adopted. There is hereby adopted the *International Energy Conservation Code*, 2012 edition, published by the International Code Council with the following amendments, copies of which shall be maintained by the Building official:

C101.1 Title. Insert "City of Amarillo."

C104.1.1 Contractor Registration. The Building Official shall receive applications from and register contractors according to the rules adopted by the City in Chapter 4-1 of the Amarillo Municipal Code.

C107.2 Schedule of permit fees. A fee for each permit shall be paid as required, in accordance with the schedule as provided in Chapter 4-1 of the Municipal Code of Ordinances.

C107.3 Work commencing before permit issuance. Any person who commences any work before obtaining the necessary permits shall be subject to fees as provided in Chapter 4-1 of the Municipal Code of Ordinances.

C107.5 Refunds. Fee refunds shall be made in accordance with Chapter 4-1 of the Municipal Code.

C108.4 Failure to comply. Any person who shall continue any work after having been served with a stop work order, except such work as that person is directed to perform to remove a violation or unsafe condition, shall be liable to a fine in accordance with section 1-1-5 of this Municipal Code of Ordinances.

R402.1 General (Prescriptive). The *building thermal envelope* shall meet the requirements of R402.1.1 through R402.1.4 as amended until December 31, 2014. Effective January 1, 2015 Table R402.1.1 and Table R402.1.3 will be in effect as printed in 2012 IECC.

TABLE R402.1.1
INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT[a]

CLIMATE ZONE	FENESTRATION *U*-FACTOR[b]	SKYLIGHT[b] *U*-FACTOR	GLAZED FENESTRATION SHGC[b, c]	CEILING *R*-VALUE	WOOD FRAME WALL *R*-VALUE	MASS WALL *R*-VALUE[i]	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	4/6	13	0	0	0
3	0.35	0.55	0.25	38	20 or 13 + 5[h]	8/13	19	5/13[f]	0	5/13
4 except Marine	0.35	0.60	N/R	38	13	5/10	19	10/13	10, 2 ft	10/13
5 and Marine 4	0.32	0.55	NR	49	20 or 13 + 5[h]	13/17	30[g]	15/19	10, 2 ft	15/19
6	0.32	0.55	NR	49	20 + 5 or 13 + 10[h]	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[h]	19/21	38[g]	15/19	10, 4 ft	15/19

Footnotes shall remain unchanged.

TABLE R402.1.3
EQUIVALENT U-FACTORS[a]

Climate Zone	Fenestratio n U-Factor	Skylight U-Factor	Ceiling U-Factor	Frame Wall U-Factor	Mass Wall U-Factorb	Floor U-Factor	Basement Wall U-Factor	Crawl Space Wall U-Factor
1	0.50	0.75	0.035	0.082	0.197	0.064	0.360	0.477
2	0.40	0.65	0.030	0.082	0.165	0.064	0.360	0.477
3	0.35	0.55	0.030	0.057	0.098	0.047	0.091c	0.136
4 except Marine	0.35	~~0.55~~ 0.60	~~0.026~~ 0.030	~~0.057~~ 0.082	~~0.098~~ 0.141	0.047	0.059	0.065
5 and Marine 4	0.32	0.55	0.026	0.057	0.082	0.033	0.059	0.055
6	0.32	0.55	0.026	0.048	0.060	0.033	0.050	0.055
7 and 8	0.32	0.55	0.026	0.048	0.057	0.028	0.050	0.055

Footnotes shall remain unchanged.

R403.2.2 Sealing (Mandatory). Ducts, air handlers, and filter boxes shall be sealed. Joints and seams shall comply with either the *International 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.

Duct tightness shall be verified by either of the following:

1. Postconstruction test: Total leakage shall be less than or equal to 4 cfm (113.3 L/min) per 100 square feet (9.29 m^2) of conditioned floor area when tested at a pressure differential of 0.1 inches w.g. (25 Pa) across the entire system, including the manufacturer's air handler enclosure. All register boots shall be taped or otherwise sealed during the test.

2. Rough-in test: Total leakage shall be less than or equal to 4 cfm (113.3 L/min) per 100 ft^2 (9.29 m^2) of conditioned floor area when tested at a pressure differential of 0.1 inches w.g. (25 Pa) across the system, including the manufacturer's air handler enclosure. All registers shall be taped or otherwise sealed during 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 m^2) of conditioned floor area. Exception: The total leakage test is not required for ducts and air handlers located entirely within the building thermal envelope.

Duct testing to be done by a company/person who is certified by a recognized accreditation organization and their equipment be recertified on an annual basis. Contractors who choose not to attain the required certification or use the proper testing tools will be required to engage the services of a certified tester.

SECTION 3. Severability. If any provision, section, subsection, sentence, clause or the application of same to any person or set of circumstances for any reason is held to be unconstitutional, void or invalid or for any reason unenforceable, the validity of the remaining portions of this ordinance or the application thereby shall remain in effect, it being the intent of

the City Commission of the City of Amarillo, Texas in adopting this ordinance, that no portion thereof or provision contained herein shall become inoperative or fail by any reasons of unconstitutionality of any other portion or provision.

SECTION 4. Repealer. All ordinances, parts of ordinances resolutions and parts of resolutions in conflict with this ordinance are hereby repealed to the extent of conflict with this ordinance.

SECTION 5. Continuation. That nothing in this ordinance or in the 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 ordinance hereby repealed by this ordinance.

SECTION 6. Penalty. It is an offense to violate any part of this ordinance, punishable upon conviction in accordance with Section 1-1-5 of the Amarillo Municipal Code of Ordinances.

SECTION 7. Publishing and Effective Date. This ordinance shall be published according to law and be effective on October 1, 2012.

INTRODUCED AND PASSED by the City Commission of the City of Amarillo, Texas, on First Reading this the 28 day of August, 2012; and PASSED on Second and Final Reading the 4 day of September, 2012.

Paul Harpole, Mayor

ATTEST:

For Frances Hilos
Donna DeRight, City Secretary