

- CODE
Title IV - BUILDING CODES, DEVELOPMENT AND ZONING
CHAPTER 4-3. - GENERAL BUILDING AND CONSTRUCTION STANDARDS
ARTICLE IV. ENERGY CONSERVATION CODE

ARTICLE IV. ENERGY CONSERVATION CODE¹

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

Code adopted. There is hereby adopted the *International Energy Conservation Code*, 2015 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.

[Strike] from ordinance only, it is to remain in the adopted code (2015 IECC), unamended.

~~*R402.1 General (Prescriptive).* The building thermal envelope shall meet the requirements of 402.1.1 through 402.1.4 as amended until December 31, 2017. Effective January 1, 2018 Table R402.1.1 and Table R402.1.3 will be in effect as printed in 2015 IECC.~~

~~TABLE N1102.1.2 (R402.1.2)
INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT^a~~

Climate Zone	Fenestration U-Factor	Skylight ^b U-Factor	Glazed Fenestration SHGC ^{b,e}	Ceiling R-Value	Wood Frame Wall R-Value	Mass Wall R-Value	Floor R-Value	Basement Wall R-Value	Slab 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

¹Editor's note(s)—Section 4 of Ord. No. 6577 stated that "this ordinance shall be published and become effective on September 1, 2002, according to law."

3	0.35	0.55	0.25	38	20-or 13+ 5 ^b	8/13	19	5/13 ^f	0	5/13
4 except Marine	0.35	0.55	0.40	40	15-or 13+1 ^b	8/13	19	10/13	5,12 in.	10/13
5-and Marine 4	0.32	0.55	NR	49	20-or 13+ 5 ^b	13/17	30 ^e	15/19	10,2 ft	15/19
6	0.32	0.55	NR	49	20+5 or 13 40 10 ^b	15/20	30 ^e	15/19	10,4 ft	15/19
7-and-8	0.32	0.55	NR	49	20+5 or 13 +10 ^b	19/21	38 ^e	15/19	10,4 ft	15/19

Footnotes shall remain unchanged.

TABLE N1102.1.4 (R402.1.4)
EQUIVALENT U-FACTORS^a

Climate Zone	Fenestration U-Factor	Skylight U- Factor	Ceiling U- Factor	Frame Wall U- Factor	Mass Wall U- Factor ^b	Floor U- Factor	Basement Wall U-Factor	Crawl Space Wall U- Factor
1	0.50	0.75	0.035	0.084	0.197	0.064	0.360	0.477
2	0.40	0.65	0.030	0.084	0.165	0.064	0.360	0.477
3	0.35	0.55	0.030	0.060	0.098	0.047	0.091 ^e	0.136
4-except Marine	0.35	0.55	0.026 0.028	0.060 0.070	0.098	0.047	0.059	0.065
5-and Marine 4	0.32	0.55	0.026	0.060	0.082	0.033	0.059	0.055
6	0.32	0.55	0.026	0.045	0.060	0.033	0.050	0.055
7-and-8	0.32	0.55	0.026	0.045	0.057	0.028	0.050	0.055

Footnotes shall remain unchanged.

R403.3.2 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 m²) 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 ft² (9.29 m²) 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 m²) 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.

(Ord. No. 6577, § 1, 12-27-2001; Ord. No. 6881, §§ 1, 2, 12-20-2005; Ord. No. 7102, § 1, 5-20-2008; Ord. No. 7352, § 1, 9-4-2012; Ord. No. 7510, §§ 1, 2, 3-3-15)

Secs. 4-3-42—4-3-49. Reserved.