

Chapter 4-15

ENERGY CONSERVATION CODE OF BOISE CITY

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Section 4-15-01 PURPOSE

The purpose of this Chapter is to establish minimum regulations for energy-efficient buildings using prescriptive and performance based provisions. The provisions of this code shall regulate the design of building envelopes for adequate thermal resistance and low air leakage, including the design and selection of mechanical systems, service water-heating, electrical equipment, power, and lighting systems in order to enhance the efficient use of energy in new and existing building construction.

(Ord-43-17, Amended, 12/19/17; Ord-50-14, 12/16/14; 6369, Repealed & Replaced, 12/14/2004; 6196, Added, 12/10/2002)

Section 4-15-02 CODE ADOPTED

All rules, regulations and ordinances applying to the design, construction, quality of materials, erection, installation, alteration, repair, location, relocation, replacement, addition to, use or maintenance of the building envelope, building mechanical systems, service water-heating, electrical power, and lighting systems, the 2015 Edition of the International Energy Conservation Code (IECC), published under the authority of the International Code Council, Inc., is ratified and adopted, except to the extent that said those rules and regulations are hereby changed, altered, or amended by this code. One (1) copy of the 2015 Edition of the International Energy Conservation Code shall be filed for use and examination by the public in the office of the City Clerk. All provisions in this chapter shall be effective as of January 1, 2018.

(Ord-43-17, Amended, 12/19/17; Ord-50-14, 12/16/14; 6790, Amended, 11/09/2010; 6622, Amended, 12/11/2007; 6369, Repealed & Replaced, 12/14/2004; 6196, Added, 12/10/2002)

Section, 4-15-03 IECC ENERGY CODE AMENDMENT, SECTION 101.1, TITLE

C101.1 Title. The 2015 Edition of the International Energy Conservation Code, and amendments pursuant to this ordinance, shall be known as the Energy Conservation Code of Boise City. The Energy Conservation Code of Boise City may be cited or referred to in this chapter as the “code.”

(Ord 43-17, Amended, 12/19/17; Ord-50-14, 12/16/14; 6790, Amended, 11/09/2010; 6622, Renumbered, 12/11/2007; 6369,

Repealed & Replaced, 12/14/2004; 9196, Added, 12/10/2002)

Section, 4-15-04 IECC ENERGY CODE AMENDMENT, ADD SECTION C101.5.2, INDUSTRIAL, ELECTRONIC AND MANUFACTURING EQUIPMENT

C101.5.2 Industrial, electronic and manufacturing equipment. Buildings or portions thereof that are heated or cooled exclusively to maintain a required operating temperature for industrial, electronic, or manufacturing equipment shall be exempt from the provisions of this code. Such buildings or portions thereof shall be separated from connected conditioned space by building thermal envelope assemblies that comply with this code. If this condition or use is abandoned, then that building or portion thereof shall be subject to the requirements of this code.

Section 4-15-05 IECC ENERGY CODE AMENDMENT, SECTION C107, FEES IS DELETED

Section C107 shall be deleted in its entirety.

(Ord-50-14, 12/16/14; 6790, Amended, 11/09/2010; 6622, Renumbered, 12/11/2007; 6369, Repealed & Replaced, 12/14/2004; 6196, Added, 12/10/2002)

Section 4-15-06 IECC ENERGY CODE AMENDMENT, SECTION C108, STOP WORK ORDER

Section C108 shall be repealed in its entirety and replaced with the following:

C108 Stop work order. Whenever the code official identifies any work regulated by the Energy Conservation Code of Boise City being performed in a manner contrary to the provisions of this code or in a dangerous or unsafe manner, then building official is authorized to issue a stop work order in accordance with Section 115 of the International Building Code or Section R114 of the International Residential Code as adopted by the Building Code of Boise City.

(Ord-50-14, 12/16/14; 6790, Amended, 11/09/2010; 6622, Renumbered, 12/11/2007; 6369, Repealed & Replaced, 12/14/2004; 6196, Added, 12/10/2002)

Section 4-15-07 IECC ENERGY CODE AMENDMENT, SECTION C109, BOARD OF APPEALS PROCESS

Section C109 shall be repealed in its entirety and replaced with the following:

C109 Board of appeals process. Any person, firm, association or corporation desiring to appeal an order, decision or determination made by the building official with respect to application or interpretation of this code shall file a written appeal with the code official within ten (10) calendar days from the date the order, decision, or determination was issued. The appealing a decision of the City shall include payment of fee in the amount of one hundred fifty dollars (\$150.00) at time of filing the written appeal request. In the event the appealing party prevails, then the fee shall be returned to the appellant.

Recognizing that the energy conservation code of Boise City is multi-disciplinary, the building official shall schedule the appeal before the appeals board of the most relevant discipline to the

issue being appealed. Depending upon the issue raised on appeal, an energy conservation code appeal may be heard by the Building Code Board of Appeals, the Electrical Board of Appeal, or the Plumbing/Mechanical, or Fuel Gas Boards as established under by Boise City Code. Ten (10) calendar days prior to the appeal hearing, the appellant shall be notified as to which board will hear the appeal and will be given a copy of the ordinance governing appeals to that board. The ordinance which governs the relevant board shall govern the conduct and procedures of the hearing. The hearing shall be held within thirty (30) calendar days of receipt of the notice of appeal or as otherwise agreed upon by the parties to the appeal. Any order, decision or ruling of the board of appeals may be appealed, by filing notice in writing to the City Council within ten (10) calendar days of such order, decision or ruling.

(Ord 43-17; Amended, 12/19/17; Ord-50-14-12-16-14; 6790, Amended, 11/09/2010; 6622, Amended, 12/11/2007; 6622, Renumbered, 12/11/2007; 6369, Repealed & Replaced, 12/14/2004; 6196, Added, 12/10/2002)

Section 4-15-08 IECC ENERGY CODE AMENDMENT, ADD SECTION C110, VIOLATIONS

C110 Violations. Violations of any provision of the Energy Conservation Code of Boise City shall be subject to enforcement under f Section 114 of the International Building Code or Section R113 of the International Residential Code as adopted by the Building Code of Boise City.

(Ord-50-14, 12/16/14; 6790, Amended, 11/09/2010; 6622, Renumbered, 12/11/2007; 6369, Repealed & Replaced, 12/14/2004; 6196, Added, 12/10/2002)

Section 4-15-09 IECC ENERGY CODE AMENDMENT, SECTION C201.3, TERMS DEFINED IN OTHER CODES

C201.3 Terms defined in other codes. Terms that are not defined in this code but are defined in the editions in the International Building Code, International Residential Code, National Electrical Code, International Fire Code, International Fuel Gas Code, International Mechanical Code or the Idaho State Plumbing Code, terms shall have the meanings ascribed to them as in those codes.

(Ord-50-14, 12/16/14; 6790, Amended, 11/09/2010; 6622, Renumbered, 12/11/2007; 6369, Repealed & Replaced, 12/14/2004; 6196, Added, 12/10/2002)

Section 4-15-10 IECC ENERGY CODE AMENDMENT, SECTION C202, GENERAL DEFINITIONS, CODE OFFICIAL

CODE OFFICIAL. The *building official* as defined and established by the *International Building Code* as incorporated into the Building Code of Boise City shall be referred to as the *code official* under this code. The code official shall be responsible for administering and enforcing this code.

Section 4-15-11 IECC ENERGY CODE AMENDMENT, SECTION C403.3, ECONOMIZERS (PRESCRIPTIVE), ADD EXCEPTION 10

Adding exception number 10 to Section C403.3, Economizers (Prescriptive) which shall read as

follows:

10. Systems requiring special outside air filtration and treatment for the reduction and treatment of unusual outdoor contaminants that make an air economizer infeasible.

Section 4-15-12 IECC ENERGY CODE AMENDMENT, SECTION R101.1 TITLE

R101.1 Title. The 2015 Edition of the International Energy Conservation Code, and amendments pursuant to this ordinance, shall be known as the Energy Conservation Code of Boise City. ~~is-~~ The Energy Conservation Code of Boise City may be cited in this chapter as the “code.”
(Ord-50-14, 12/16/14)

Section 4-15-13 IECC ENERGY CODE AMENDMENT, SECTION R107, FEES

Section R107 shall be repealed in its entirety and replaced as follows:

R107 Fees. The fees for residential inspection(s) verifying compliance with the Energy Conservation Code of Boise City shall be assessed in accordance with Table No. 1-A of the Building Code in Boise City.
(Ord-50-14, 12/16/14)

Section 4-15-14 IECC ENERGY CODE AMENDMENT, SECTION R108, STOP WORK ORDER

Section R108 shall be repealed in its entirety and replaced with the following:

R108 Stop work order. Whenever the code official identifies any work regulated by the Energy Conservation Code of Boise City being performed in a manner contrary to the provisions of this code or in a dangerous or unsafe manner, then the building official is authorized to issue a stop work order in accordance with Section 115 of the International Building Code or Section R114 of the International Residential Code as adopted by the Building Code of Boise City.
(Ord-50-14, 12/16/14)

Section 4-15-15 IECC ENERGY CODE AMENDMENT, SECTION R109, BOARD OF APPEALS PROCESS

Section R109 shall be repealed in its entirety and replaced with the following:

R109 Board of appeals process. Any person, firm, association or corporation desiring to appeal an order, decision or determination made by the building official with respect to an application or interpretation of this code shall file a written appeal with the code official within ten (10) calendar days from the date the order, decision, or determination was issued. The appealing party a decision of the City shall include payment of fee in the amount of one hundred fifty dollars (\$150.00) at time of filing the written appeal request. In the event the appealing party prevails, then the fee shall be returned to the appellant.

Recognizing that the Energy Conservation Code of Boise City is multi-disciplinary, the building

official shall schedule the appeal before the appeals board of the most relevant discipline to the issue being appealed. Depending upon the issue raised on appeal, an energy conservation code appeal may be heard by the Building Code Board of Appeals, the Electrical Board of Appeal, or the Plumbing-Mechanical, or Fuel Gas Boards as established under by Boise City Code. Ten (10) calendar days prior to the appeal hearing, the appellant shall be notified as to which board will hear the appeal and will be given a copy of the ordinance governing appeals to that board. The ordinance which governs the relevant board shall govern the conduct and procedures of the hearing. The hearing shall be held within thirty (30) calendar days of receipt of the notice of appeal or as otherwise agreed upon by the parties to the appeal. Any order, decision, or ruling of the board of appeals may be appealed, by filing notice in writing to the City Council within ten (10) calendar days of such order, decision, or ruling.

(Ord-50-14, 12/16/14)

Section 4-15-16 IECC ENERGY CODE AMENDMENT, ADD SECTION R110, VIOLATIONS

R110 Violations. Violations of any provision of the Energy Conservation Code of Boise City shall be subject to enforcement under Section 114 of the International Building Code or Section R113 of the International Residential Code as adopted by the Building Code of Boise City.

(Ord-50-14, 12/16/14)

Section 4-15-17 IECC ENERGY CODE AMENDMENT, SECTION R201.3, TERMS DEFINED IN OTHER CODES

R201.3 Terms defined in other codes. Terms that are not defined in this code but are defined in the editions in the International Building Code, International Residential Code, National Electrical Code, International Fire Code, International Fuel Gas Code, International Mechanical Code or the Idaho State Plumbing Code, terms shall have the meanings ascribed to them as in those codes respectively.

(Ord-50-14, 12/16/14)

Section 4-15-18 IECC ENERGY CODE AMENDMENT, SECTION R202, GENERAL DEFINITIONS, CODE OFFICIAL

CODE OFFICIAL. The *building official* as defined and established by the *International Building Code* as incorporated into the Building Code of Boise City shall be referred to as the *code official* under this code. The code official shall be responsible for administering and enforcing this code.

Section 4-15-19 IECC ENERGY CODE AMENDMENT, TABLE R402.1.1, INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT, ADD FOOTNOTES J and K

Add footnote j to the title of Table R402.1.2 - Insulation and Fenestration Requirements by Component. Add footnote j underneath Table R402.1.2 after footnote i to read as follows:

j. For residential log home building building thermal envelope construction requirements see section

R402.6

Add footnote k to the Ceiling R-Value header of Table R402.1.2, and below Table R402.1.2 to read as follows:

k. The Ceiling R-Value in Climate Zone 5 may be reduced to R-38 when the Wood Frame Wall R-Value is increased to R-21 and the Fenestration U-Factor is reduced to 0.31.
(Ord-50-14, 12/16/14)

Section 4-15-20 IECC ENERGY CODE AMENDMENT, TABLE R402.4.1.1, AIR BARRIER AND INSULATION INSTALLATION

Add the criteria requirement for the “fireplace” component of Table R402.4.1.1 Air Barrier and Insulation Installation as follows:

TABLE R402.4.1.1 (N1102.4.1.1) AIR BARRIER AND INSULATION INSTALLATION

COMPONENT	CRITERIA ^a
Fireplace	An air barrier shall be installed on fireplace walls.

(Ord-50-14, 12/16/14)

Section 4-15-21 IECC ENERGY CODE AMENDMENT, SECTION R402.4.1.2, TESTING

R402.4.1.2 Testing. The building or dwelling unit shall be tested and verified as having an air leakage rate not exceeding five air changes per hour in Climate Zones 1 and 2, and four air changes per hour in Climate Zones 3 through 8. Testing shall be conducted in accordance with ANSI/RESNET/ICC 380 and reported at a pressure of 0.2 inches w.g. (50 Pascals). Where required by the *code official*, testing shall be conducted by an *approved* third party. A written report of the results of the test shall be signed by the party conducting the test and provided to the *code official*. Testing shall be performed at any time after creation of all penetrations of the *building thermal envelope*.

(Ord-50-14, 12/16/14)

Section 4-15-22 IECC ENERGY CODE AMENDMENT, ADD SECTION R402.6, RESIDENTIAL LOG HOME THERMAL ENVELOPE

R402.6 Residential Log Home Thermal Envelope. Residential log home construction shall comply with sections R401 (General), R402.4 (Air Leakage), R402.5 (Maximum Fenestration U-Factor and SHGC), R403.1 (Controls), R403.3.2 (Sealing), R403.3.5 (Building Cavities), sections R403.4 through R403.11 (referred to as the mandatory provisions), Section R404 (Electrical Power and Lighting Systems), and either subsection i., ii., or iii. as follows:

- i. Sections R402.2 through R402.3, R403.3.1, R404.1 and Table R402.6;
- ii. Section R405 Simulated Performance Alternative (Performance); or
- iii. REScheck (U.S. Department of Energy Building Codes Program).

(Ord-50-14, 12/16/14)

Section 4-15-23 IECC ENERGY CODE AMENDMENT, ADD TABLE R402.6, LOG HOME PRESCRIPTIVE THERMAL ENVELOPE REQUIREMENTS BY COMPONENT

**TABLE R402.6
LOG HOME PRESCRIPTIVE THERMAL ENVELOPE REQUIREMENTS BY COMPONENT**

CLIMATE ZONE	FENESTRATION U-FACTOR ^a	SKYLIGHT U-FACTOR	GLAZED FENESTRATION SHGC	CEILING R-VALUE	Min. Average LOG Size in Inches	FLOOR R-VALUE	BASEMENT WALL R-VALUE ^d	SLAB R-VALUE & DEPTH ^b	CRAWL SPACE WALL R-VALUE ^d
5, 6 - High efficiency equipment path ^c	0.32	0.60	NR	49	5	30	15/19	10, 4 ft.	10/13
5	0.32	0.60	NR	49	8	30	10/13	10, 2 ft.	10/13

For SI: 1 foot= 304.8 mm

- a. The fenestration U-factor column excludes skylights. The SHGC column applies to all glazed fenestration.
- b. R-5 shall be added to the required slab edge R-values for heated slabs.
- c. 90% AFUE natural gas or propane, 84% AFUE oil, or 15 SEER heat pump heating equipment (zonal electric resistance heating equipment such as electric base board electric resistance heating equipment as the sole source for heating is considered compliant with the high efficiency equipment path).
- d. "15/19" means R-15 continuous insulated sheathing on the interior or exterior of the home or R-19 cavity insulation at the interior of the basement wall. "15/19" shall be permitted to be met with R-13 cavity insulation on the interior of the basement wall plus R-5 continuous insulated sheathing on the interior or exterior of the home. "10/13" means R-10 continuous insulated sheathing on the interior or exterior of the home or R-13 cavity insulation at the interior of the basement wall.

(Ord-50-14, 12/16/14; ORD-43-13, amended,11/19/13)

Section 4-15-24 IECC ENERGY CODE AMENDMENT, SECTION R403.3.3, DUCT TESTING (MANDATORY)

R403.3.3 Duct testing (Mandatory). Ducts shall be pressure tested in accordance with ANSI/RESNET/ICC 380 to determine air leakage by one of the following methods:

1. Rough-in test: Total leakage shall be measured with a pressure differential of 0.1 inch w.g. (25 Pa) across the system, including the manufacturer's air handler enclosure if

installed at the time of the test. All registers shall be taped or otherwise sealed during the test.

2. Post-construction test: Total leakage shall be measured with a pressure differential of 0.1 inch w.g. (25 Pa) across the entire system, including the manufacturer's air handler enclosure. Registers shall be taped or otherwise sealed during the test.

Exception: A duct air leakage test shall not be required where the ducts and air handlers are located entirely within the building thermal envelope.

A written report of the results of the test shall be signed by the party conducting the test and provided to the *code official*.

Section 4-15-25 IECC ENERGY CODE AMENDMENT, SECTION R406.3, ENERGY RATING INDEX

R406.3 Energy Rating Index. The Energy Rating Index (ERI) shall be determined in accordance with ANSI/RESNET/ICC 301.

Section 4-15-26 IECC ENERGY CODE AMENDMENT, DELETE SECTION R406.3.1, ERI REFERENCE DESIGN

Section 4-15-27 IECC ENERGY CODE AMENDMENT, TABLE R406.4, MAXIMUM ENERGY RATING INDEX

The Energy Rating Index value for Climate Zone 5 shall be amended to read as follows:

**TABLE R406.4
MAXIMUM ENERGY RATING INDEX**

CLIMATE ZONE	ENERGY RATING INDEX
5	61

Section 4-15-28 IECC ENERGY CODE AMENDMENT, SECTION R406.5, VERIFICATION BY APPROVED AGENCY

R406.5 Verification by approved agency. Verification of compliance with Section R406 shall be completed by a third party approved in accordance with ANSI/RESNET/ICC 301.

Section 4-15-29 IECC ENERGY CODE AMENDMENT, SECTION R406.6, DOCUMENTATION

R406.6 Documentation. Documentation of the software used to determine the ERI and the parameters for the residential building shall be in accordance with Sections R406.6.1 through R406.6.5.

Section 4-15-30 IECC ENERGY CODE AMENDMENT, SECTION R406.6.1, COMPLIANCE SOFTWARE TOOLS

R406.6.1 Compliance software tools. Software tools used for determining the ERI shall be Approved Software Rating Tools in accordance with ANSI/RESNET/ICC 301.

Section 4-15-31 IECC ENERGY CODE AMENDMENT, ADD SECTION R406.6.4, SPECIFIC APPROVAL

R406.6.4 Specific approval. Performance analysis tools meeting the applicable sections of Section R406 shall be *approved*. Documentation demonstrating the approval of performance analysis tools in accordance with Section R406.6.1 shall be provided to the *code official*.

Section 4-15-32 IECC ENERGY CODE AMENDMENT, ADD SECTION R406.6.5, INPUT VALUES

R406.6.5 Input values. When calculations require input values not specified by Sections R402, R403, R404, or R405, those input values shall be taken from ANSI/RESNET/ICC 301.

Section 4-15-33 IECC ENERGY CODE AMENDMENT, DELETE SECTION R406.7, CALCULATION SOFTWARE TOOLS, INCLUDING SUB-SECTIONS R406.7.1 MINIMUM CAPABILITIES, R406.7.2 SPECIFIC APPROVAL AND R406.7.3 INPUT VALUES

Section 4-15-34 IECC ENERGY CODE AMENDMENT, CHAPTER 6 [RE] REFERENCED STANDARDS

The following referenced standards shall be added into Chapter 6 of the code as follows:

ANSI/RESNET/ICC	Residential Energy Services Network, Inc. P.O. Box 4561 Oceanside, CA 92052-4561	International Code Council 500 New Jersey Avenue, NW, 6 th Floor Washington, D.C. 20001
Standard reference number	Title	Referenced in code section number
301-2014	Standard for the Calculation and Labeling of the Energy Performance of Low-Rise Residential Buildings using an Energy Rating Index	R406.3, R406.5, R406.6.1, R406.6.5

ANSI/RESNET/ICC	Residential Energy Services Network, Inc. P.O. Box 4561 Oceanside, CA 92052-4561	International Code Council 500 New Jersey Avenue, NW, 6 th Floor Washington, D.C. 20001
Standard reference number	Title	Referenced in code section number
380-2016	Standard for Testing Airtightness of Building Enclosures, Airtightness of Heating and Cooling Air Distribution Systems, and Airflow of Mechanical Ventilation Systems	R402.4.1.2, R403.3.3

(Ord-43.17, Amended, 12/19/17)