

**DIVISION OF BUILDING SAFETY
APPLICATION FOR REVIEW OF A PROPOSED STATEWIDE AMENDMENT
TO STATE ADOPTED CODES
2012 Code Adoption Cycle**

Log# _____
(Office Use Only)

PLEASE FOLLOW INSTRUCTIONS ON PAGE FIVE

1. State Building Code to be Amended:

<input type="checkbox"/> International Building Code	<input checked="" type="checkbox"/> International Energy Conservation Code
<input type="checkbox"/> International Residential Code	<input type="checkbox"/> International Mechanical Code
<input type="checkbox"/> International Fuel Gas Code	<input type="checkbox"/> National Electrical Code
<input type="checkbox"/> International Existing Building Code	<input checked="" type="checkbox"/> IDAPA 07.03.01 004 04
<input type="checkbox"/> Idaho State Plumbing Code	<input type="checkbox"/>

Section IDAPA 07.03.01 004 04 Page _____

2. Applicant Name (Specific local government, organization or individual):

Code Collaborative Subcommittee

3. Signed:

	City of Boise Building Official	3-11-15
Proponent	Title	Date

4. Designated Contact Person:

Jason Blais	City of Boise Building Official
Name	Title

Address: City of Boise – Planning & Development Services (PDS)
 P.O. Box 500
 Boise, ID 83701

384-3807		384-3814
Office Phone	Cell	Fax

E-mail address: jblais@cityofboise.org

5. Proposed Code Amendment. Use ‘legislative format’ including both old and new language. See instructions on page five for specific details. Please attach a separate sheet for each separate proposal.

IDAPA 07.03.01 004 04 (multiple sections)

Code	Section	Page
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Please note number of additional pages: 4

Please see separate attached document with underlined language amending IDAPA 07.03.01 004 04 that corrects multiple code section references.

Supporting Data for Statewide Amendment Proposals. This information is required for all statewide amendment proposals. **Attach supporting documentation, as necessary; incomplete proposals will not be accepted.**

The governing boards require supporting data on any amendment proposal to show:

1. That it meets basic criteria – See Part I to specify how this proposal meets the criteria for code amendment.
2. The intended effect – See Part II to describe the purpose of the proposed amendment, including the benefits and the problems addressed.
3. The potential impacts or benefits to business – See Part III/Types of Construction, to explain how methods in construction businesses, industries and services would be affected.
4. The potential impacts on enforcement procedures, See Part III/Types of Services Required, to provide some analysis of the impacts on code enforcement in local jurisdictions.
5. Economic costs and benefits – Use the Table in Part IV of this form to estimate the costs and benefits of the proposal on construction practices, users and/or the public, the enforcement community, and operation and maintenance.

Part I ♦ Background information on amendment.

Code references: IDAPA 07.03.01 004 04 Title: (multiple sections)

Related Codes: No

(Does this amendment change other related codes?)

Proponent: Jason Blais

Phone: 384-3807

Date: 3/11/15

NOTE: Amendments to the state building code must be based on one of the following criteria; please indicate the pertinent rationale for the proposed amendment by selecting from the list below:

- (1) The amendment is needed to address a critical life/safety need.
- (2) The amendment is needed to address a specific state policy or statute.
- (3) The amendment is needed for consistency with state or federal regulations.
- (4) The amendment is needed to address a unique character of the state.
- (5) The amendment corrects errors and omissions.

Part II ♦ Amendment Benefit:

PROBLEM(S) ADDRESSED (Describe the intended effect of the proposed code amendment):

In the process of adopting the 2012 International Energy Conservation Code (IECC), many amendments were added into the IDAPA rules. The 2012 edition of the IECC changed code section references by adding an “R” in front of the residential code sections and a “C” in front of the commercial sections. When adding the amendments into the IDAPA rules, the “R” in front of the section numbers was omitted. This proposal intends to correct code section references in multiple amendment sections of the IDAPA rules for IECC.

These corrections were discussed in the Code Collaborative Subcommittee meetings with agreement to amend to provide accurate code references.

PRIMARY REASON FOR AMENDMENT: (Describe how the amendment meets one of the criteria listed above)

See explanation under previous “Problem(s) Addressed” section of this proposal.

There is no cost associated with this amendment proposal. Proposal is just technical corrections of code section references in IDAPA rules for amendments of the IECC.

There is agreement and a recommendation of approval from the Code Collaborative Subcommittee on this amendment proposal to provide accurate code references in the IDAPA rules.

TYPE OF BENEFITS PROJECTED:

Part III ♦ Amendment Impacts or Benefits:

TYPES OF CONSTRUCTION: New Construction Alteration/Tenant Improvement/Repair
 Residential-Single Family Residential-Multi Family Commercial Industrial

List businesses/industries affected by amendment:

Manufacturers: _____
 Specific Construction Contractors & Trades: _____
 Construction Supply Industry: _____
 Specialty Trades: _____
 Types of Buildings: _____
 Fire Protection Industry: _____

Types of Services Required:

Reporting: Brief Description _____
 Record Keeping: Brief Description _____
 Other: Brief Description _____
 Indirect Cost to Industry: Indicate whether there are multiple sources to obtain the equipment, material or service required by this proposal. If not, provide a justification of the benefit versus small business impact.

Part IV ♦ Amendment Costs and Benefits

Building Type	Construction ¹				Enforcement ²			Operations & Maintenance ³		
	Co sts	% impact ⁴	Benefits ⁵	Costs	% impact	Benefits	Costs	% impact	Benefits	
Residential	∅	∅	N/A	∅	∅	N/A	∅	∅	N/A	
Single family	∅	∅	N/A	∅	∅	N/A	∅	∅	N/A	
Multi-family										
Commercial/ Retail										
Industrial										
Institutional										

1 \$ / square foot of floor area or other cost. Attach data. Construction costs are costs prior to occupancy, and include both design and direct construction costs that impact the total cost of the construction to the owner/consumer.

2 Cost per project plan. Attach data. Enforcement costs include governmental review of plans, field inspection, and mediated litigation required for enforcement.

3 Cost to building owner/tenants over the life of the project.

4 Cost differential over a specific size project or range of projects as determined by the proponent. Provide sufficient cost and benefit detail to clarify the impact to the Council. All data should be created and referenced to third party reputable sources for verification.

5 Note sectors with measurable benefit from Part II, including benefits to a) the user, b) the public, c) the industry, and/or d) the economy; use e) for all of the above.

o. Delete IRC section R602.10 and replace with the following: Wall bracing. Buildings shall be braced in accordance with this section or, when applicable section R602.12, or the most current edition of APA System Report SR-102 as an alternate method. Where a building, or portion thereof, does not comply with one (1) or more of the bracing requirements in this section, those portions shall be designated and constructed in accordance with section R301.1. (3-20-14)

p. Delete section N1102.4.3 and replace with the following: Fireplaces. New wood-burning fireplaces shall have tight-fitting flue dampers and outdoor combustion air. (4-4-13)

q. Chapter 11 [RE] Energy Efficiency - The following sections and tables of chapter 11 shall be amended in accordance with the requirements contained below in Subsection 004.04 of these rules which correspond to the appropriate section: (3-20-14)

- i. Table N1102.1.1 (Table R402.1.1) - Insulation and Fenestration Requirements by Component; (3-20-14)
- ii. Table N1102.1.3 (Table R402.1.3 - Equivalent U-Factors; (3-20-14)
- iii. Table N1102.2.6 (Table R402.2.6) - Steel-Frame Ceiling, Wall and Floor Insulation (R-Value); (3-20-14)
- iv. Section N1102.4.1 (R402.4.1) Building Thermal Envelope; (3-20-14)
- v. Section N1102.4.1.1 (R402.4.1.1) - Insulation; (3-20-14)
- vi. Table N1102.4.1.1 (Table R402.4.1.1) - Air Barrier and Insulation Installation; (3-20-14)
- vii. Section N1102.4.1.2 (R402.4.1.2) Testing Option; (3-20-14)
- viii. Add Section N1102.4.1.3 (R402.4.1.3) - Visual Inspection Option; (3-20-14)
- ix. Add Section N1102.6 (R402.6) - Residential Log Home Thermal Envelope; (3-20-14)
- x. Add Table N1102.6 (Table R402.6) - Log Home Prescriptive Thermal Envelope Requirements by Component; and (3-20-14)
- xi. Section N1104.1 (R404.1) - Lighting Equipment. (3-20-14)
- 03. International Existing Building Code. 2012 Edition. (4-4-13)**
- 04. International Energy Conservation Code. 2012 Edition with the following amendments. (3-20-14)**

a. Delete the values contained in Table R402.1.1 (Table N1102.1.1) for climate zone “5 and Marine 4” and climate zone “6” and replace with the following: (3-20-14)

**Table R402.1.1
INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT**

Climate Zone	Fenestration U- Factor	Skylight U-factor	Glazed Fenestration SHGC	Ceiling R-Value	Wood Frame Wall R-Value	Mass Wall R-Value	Floor R-Value	Basement Wall R-Value	Slab R-Value	Crawlspace Wall R-Value
5 and Marine 4	0.35	0.60	NR	38	20 or 13+5 ^h	13/17	30 ^g	10/13	10, 2 ft	10/13
6	0.35	0.60	NR	49	20 or 13+5 ^h	15/19	30 ^g	15/19	10, 4 ft	10/13

(3-20-14)

b. Add the following footnote to the title of Table R402.1.1 - Insulation and Fenestration Requirements by Component: ^k For residential log home building thermal envelope construction requirements see section R402.6. (4-7-11)

c. Delete the values contained in Table R402.1.3 (Table N1102.1.3) for climate zone “5 and Marine 4” and climate zone “6” and replace with the following:

**Table R402.1.3
EQUIVALENT U-FACTORS**

Climate Zone	Fenestration U-factor	Skylight U-factor	Ceiling R-Value	Wood Frame Wall R-Value	Mass Wall R-Value	Floor R-Value	Basement Wall R-Value	Crawlspace Wall R-Value
5 and Marine 4	0.35	0.60	0.030	0.057	0.082	0.033	0.059	0.065
6	0.35	0.60	0.026	0.057	0.060	0.033	0.050	0.065

(3-20-14)

d. Delete Table R402.2.6 (Table N1102.2.6) and replace with the following:

**TABLE R402.2.6
STEEL-FRAME CEILING, WALL AND FLOOR INSULATION
(R-VALUE)**

WOOD FRAME R-VALUE REQUIREMENT	COLD-FORMED STEEL EQUIVALENT R-VALUE ^a
Steel Truss Ceilings^b	
R-30	R-38 or R-30 + 3 or R-26 + 5
R-38	R-49 or R-38 + 3

R-49	R-38 + 5
Steel Joist Ceilings^b	
R-30	R-38 in 2 x 4 or 2 x 6 or 2 x 8 R-49 in any framing
R-38	R-49 in 2 x 4 or 2 x 6 or 2 x 8 or 2 x 10
Steel-Framed Wall	
R-13	R-13 + 5 or R-15 + 4 or R-21 + 3 or R-0 + 10
R-19	R-13 + 9 or R-19 + 8 or R-25 + 7
R-21	R-13 + 10 or R-19 + 9 or R-25 + 8
Steel Joist Floor	
R-13	R-19 in 2 x 6 R-19 + 6 in 2 x 8 or 2 x 10
R-19	R-19 + 6 in 2 x 6 R-19 + 12 in 2 x 8 or 2 x 10
<p>a. Cavity insulation R-value is listed first, followed by continuous insulation R-value. b. Insulation exceeding the height of the framing shall cover the framing.</p>	

(3-20-14)

e. Delete section R402.4.1 (N1102.4.1) and replace with the following: Building thermal envelope. The building thermal envelope shall comply with sections R402.1.1 and either section R402.4.1.2 or R402.4.1.3. The sealing methods between dissimilar materials shall allow for differential expansion and contraction. (3-20-14)

f. Delete section R402.4.1.1 (N1102.4.1.1) and replace with the following: Installation. The components of the building thermal envelope as listed in Table R402.4.1.1 shall be installed in accordance with the manufacturer's instructions and the criteria listed in Table R402.4.1.1, as applicable to the method of construction. (3-20-14)

g. Delete the criteria requirement for the "Fireplace" component of Table R402.4.1.1 (Table N1102.4.1.1) - Air Barrier and Insulation Installation, and replace with the following: An air barrier shall be installed on fireplace walls. (3-20-14)

h. Delete section R402.4.1.2 (N1102.4.1.2) and replace with the following: Testing option, Building envelope tightness and insulation installation shall be considered acceptable when tested air leakage is less than seven (7) air changes per hour (ACH) when tested with a blower door at a pressure of 33.5 psf (50 Pa). Testing shall occur after rough in and after installation of penetrations of the building envelope, including penetrations for utilities, plumbing, electrical, ventilation and combustion appliances. During testing: (3-20-14)

- i. Exterior windows and doors, fireplace and stove doors shall be closed, but not sealed; (3-20-14)
- ii. Dampers shall be closed, but not sealed, including exhaust, intake, makeup air, backdraft and flue dampers; (3-20-14)
- iii. Interior doors shall be open; (3-20-14)

- iv. Exterior openings for continuous ventilation systems and heat recovery ventilators shall be closed and sealed; (3-20-14)
- v. Heating and cooling system(s) shall be turned off; (3-20-14)
- vi. HVAC ducts shall not be sealed; and (3-20-14)
- vii. Supply and return registers shall not be sealed. (3-20-14)
- i. Add the following as section R402.4.1.3 (N1102.4.1.3): Visual inspection option, Building envelope tightness and insulation installation shall be considered acceptable when the items listed in Table R402.4.1.1, applicable to the method of construction, are field verified. Where required by code official an approved party independent from the installer of the insulation shall inspect the air barrier and insulation. (3-20-14)
- j. Delete section 402.4.3 and replace with the following: Fireplaces. New wood-burning fireplaces shall have tight-fitting flue dampers and outdoor combustion air. (4-4-13)
- k. Add the following section: R402.6 (N1102.6) 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), R403.2.2 (Sealing), R403.2.3 (Building Cavities), sections R403.3 through R403.9 (referred to as the mandatory provisions), Section R404 (Electrical Power and Lighting Systems), and either Subparagraph 004.04.b.i., ii., or iii. as follows: (3-20-14)
 - i. Sections R402.2 through R402.3, R403.2.1, R404.1 and Table R402.6; (4-7-11)
 - ii. Section R405 Simulated Performance Alternative (Performance); or (4-7-11)
 - iii. REScheck (U.S. Department of Energy Building Codes Program). (4-7-11)
- l. Add Table R402.6 (Table N1102.6) Log Home Prescriptive Thermal Envelope Requirements By Component to be used only in accordance with Subparagraph 004.04.b.i. item i. of section R402.6 above to appear as follows:

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

For SI: 1 foot = 304.8 mm.

CLIMATE ZONE	FENESTRATION U-FACTOR ^a	SKYLIGHT U-FACTOR	GLAZED FENESTRATION SHGC	CEILING R-VALU E	Min. Average LOG Size in inches	FLOOR R-VALU E	BASEMENT WALL R-VALUE ^d	SLAB R-VALU E & DEPTH ^b	CRAWL SPACE WALL R-VALU E ^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
6	0.30	0.60	NR	49	8	30	15/19	10, 4 ft.	10/13