

## 2018 IECC Changes – (new requirements are in red)

### Chapter 1 Scope and Administration

R102.1 Changes to wording requires “application” for alternative material or method and “written response” from code official if not approved.

### Chapter 2 Definition – 12 items

Additions: added the words “number of stories”

Air Barriers: reworded for clarification

**Air Impermeable Insulation: new definition**

Alteration” remove “that requires a permit”

Approved: reworded for clarification

Approved Agency: added “or furnishing product certification”

Building Thermal Envelope: reworded for clarification and italicized to indicate definitions

Demand Recirculation Water System: reworded for clarification

Fenestration: the “vertical fenestration” definition was moved to a sub definition of “fenestration”

High Efficacy Lights: reworded for clarification

Labeled: change “inspection” agency to “approved” agency

Roof Assembly: remove “interior finishes” and add “thermal barrier and “ignition barrier”

### Chapter 4 Residential Energy Efficiency – 18 items

R401.3 changed permanent certificate completed by builder or “design profession” to builder or other “approved” party.

R402 added exception for log homes designed with ICC 400

Table R402.1.2 Insulation and Fenestration Table: Window U-factors change from 0.32 to 0.30

R402.2.2 Ceilings without attic spaces: added additional language “Insulation shall extend over the top of the wall plate to the outer edge of such plate and shall not be compressed.

R402.2.5 Mass Walls: reworded for clarification

Table R402.2.6 Steel Framing Insulation table: remove R19 + 2.1 option (five options remain)

R402.4.2 Fireplaces: added italics to indicate definitions and clarified language

Table R402.4.1.1 Air Barrier and Insulation Installation Table;

clarify language on recessed lighting from “drywall” to “finished surface”

clarify language on tubs and showers from “them” to “the wall”

add HVAC register boots to be sealed to “wall covering” and “ceiling”

R403.3 Ducts: add sections 403.3.6 (buried ducts) and 403.3.7 (ducts in conditioned space)

R403.3.3 Duct testing: (exception) not required on HRV and ERV that are not integrated in HVAC system

**New Section R403.3.6 Ducts buried with ceiling insulation.**

**New Section R403.3.7 Ducts located in conditioned space.**

R403.5.2 Demand circulation water systems: language clarified and italicized for definition.  
R403.6.1 Whole house mechanical ventilation: efficacy requirements and clarification on when ECM motors are required.  
R403.10.3 Pool Covers. Change in exception from 70% to 75% (relative to renewables)  
R404.1 Lighting equipment: changes requirement from 75% low efficacy to 90% \*  
R405.1 Scope: adds “mechanical ventilation” to simulated performance analysis  
R405.3 Performance based compliance: change to State Energy Price “name of report”  
R405.4.2 Compliance Report: adds verbiage for multi-family batch sampling  
Table R405.5.2(1)  
    Air exchange rate: language clarification  
    Mechanical Ventilation fan efficacy formula (need info from proposal)  
    Thermal Distribution systems: adds exception for nonducted systems without a fan  
R406.3 Energy Rating Index:  
    Reference to Resnet/ICC 301  
    ERI Reference Design Ventilation rate  
    Electric vehicles not included in ERI design  
Table R406.4 ERI (HERS) scores raised to 61 for climate zones 5 & 6  
R406.6.1 Compliance tools referenced to Resnet/ICC 301  
R406.6.4 specific approval (referenced to R406.6.1)  
R406.6.5 reference to Resnet/ICC 301

### **New Chapter 5 Existing Buildings – 4 items**

R501.4 Compliance: adds International Existing Building Code  
R502.1.1.2 clarifying language refers to single section R403  
R503.1.1.1 Replacement fenestration (windows): adds new language that allows for area-weighted average as alternate for showing compliance.  
R503.1.2 clarifying language refers to single section R403

## **Potential code changes**

### **2018 Residential IECC**

Provide an exception for reducing attic insulation from R-49 to R-38 in CZ 5.

- ResCheck or ERI/HERS.

- By heating degree days (ASHRAE or Wrightsoft).

- By physical boundaries or elevation.

- Need to do additional modeling.

Blower Door Test (2018 requirement is 3ACH)

- Provide an exception to target (possibly 5ACH) with corrective action if test fails.

  - Verify air-seal check list items (ceiling penetrations, exterior wall outlets).

- Allow sampling or testing of 20% of constructed homes.

- Provide an exception for rural builders that build less than 5 homes per year.

- Provide “responsive” free training and access to test equipment.

- Need to do additional modeling.

Discuss possible adjustment for ERI (HERS) option.

- Tiered approach for entry level homes.

- Adjust score from 61 to 65. (Average score in Idaho is 64)

Discuss clarification for “cost effective” piping insulation.

- Insulation not required for piping installed in the conditioned area.

Buried Ducts in Attics

- Possible language to limit 3 feet from exterior walls and 1 foot from roof decks.

- Technical reports and free training is available.

DRAFT

DRRCB078

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LEGISLATURE OF THE STATE OF IDAHO  
Sixty-fifth Legislature First Regular Session - 2019  
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This bill draft contains confidential and privileged information exempt from disclosure under Section 74-109(1), Idaho Code. If you have received this message by mistake, please notify us immediately by replying to this message or telephoning the Legislative Services Office at (208) 334-2475.

1 AN ACT  
2 RELATING TO THE IDAHO BUILDING CODE ACT; AMENDING SECTION 39-4108, IDAHO  
3 CODE, TO PROVIDE FOR BUILDING PLANS EXAMINERS, TO REMOVE REFERENCE TO  
4 THE INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS, AND TO REVISE A  
5 PROVISION REGARDING INSPECTOR CERTIFICATION.

6 Be It Enacted by the Legislature of the State of Idaho:

7 SECTION 1. That Section 39-4108, Idaho Code, be, and the same is hereby  
8 amended to read as follows:

9 39-4108. CERTIFICATION. After July 1, 2002, state and local govern-  
10 ment building inspectors, including state safety advisors, shall hold a  
11 valid certification as a building inspector or building plans examiner is-  
12 sued by the International Code Council (ICC) ~~or the International Conference~~  
13 ~~of Building Officials (ICBO)~~, except that a building inspector with a valid  
14 ICC ~~or ICBO~~ residential building inspector certification may only inspect  
15 structures regulated by the International Residential Code (IRC). A build-  
16 ing inspector with a valid ICC ~~or ICBO~~ residential building inspector certi-  
17 fication working under the supervision of an ICC ~~or ICBO~~ certified building  
18 inspector or building plans examiner may inspect all occupancy classifica-  
19 tions for a period not to exceed three (3) years. ~~Any building inspector or~~  
20 ~~plans examiner possessing state certification as of June 30, 2002, may con-~~  
21 ~~tinue to serve as a building inspector, without renewal, until July 1, 2005,~~  
22 ~~at which time certification as an ICC or ICBO building inspector or plans ex-~~  
23 ~~aminer shall be necessary to retain inspection authority~~ An inspector may be  
24 hired without a valid ICC residential building inspector certification but  
25 must obtain such certification within a period of up to six (6) months after  
26 hire and must be under the supervision of an ICC certified building inspector  
27 or building plans examiner until such certification is obtained.