

**IDAPA 07
TITLE 03
CHAPTER 01**

07.03.01 - RULES OF BUILDING SAFETY

000. LEGAL AUTHORITY.

The Idaho Building Code Board of the Division of Building Safety is authorized under Section 39-4107, Idaho Code, to promulgate rules concerning the enforcement and administration of the Idaho Building Code Act. (3-30-06)

001. TITLE AND SCOPE.

01. Title. These rules shall be cited as IDAPA 07.03.01, “Rules of Building Safety,” Division of Building Safety. (3-30-06)

02. Scope. These rules prescribe the criteria for enforcement and administration of the Idaho Building Code Act by the Idaho Building Code Board and the Building Bureau of the Division of Building Safety. (3-30-06)

002. WRITTEN INTERPRETATIONS.

In accordance with Section 67-5201(19)(b)(iv), Idaho Code, this agency has statements that pertain to the interpretation of the rules of this chapter. These statements are available for review and copying at the offices of the Division of Building Safety. (3-30-06)

003. ADMINISTRATIVE APPEALS.

This chapter does not provide for administrative relief of the provisions contained herein. (3-30-06)

004. ADOPTION AND INCORPORATION BY REFERENCE.

Under the provisions of Section 39-4109, Idaho Code, the codes enumerated in this Section are hereby adopted and incorporated by reference into IDAPA 07.03.01, “Rules of Building Safety,” Division of Building Safety. Pursuant to Section 39-4109, Idaho Code, the effective date of any edition of the codes adopted in this Section, or any amendments identified thereto, shall be January 1 of the succeeding year following legislative approval of the rulemaking establishing the edition or amendment. Copies of these documents may be reviewed at the office of the Division of Building Safety. The referenced codes may be obtained from International Code Council, 5360 Workman Mill Road, Whittier, California 90601-2298 or the International Code Council at <http://www.iccsafe.org>. (3-20-14)

01. International Building Code. 2012 Edition with the following amendments: (4-4-13)

a. Delete section 305.2.3 and replace with the following: Twelve (12) or fewer children in a dwelling unit. A facility such as the above within a dwelling unit and having twelve (12) or fewer children receiving such day care shall be classified as a Group R-3 occupancy or shall comply with the International Residential Code. (3-20-14)

b. Delete section 308.6.4 and replace with the following: Persons receiving care in a dwelling unit. A facility such as the above within a dwelling unit and having twelve (12) or fewer children receiving day care or having five (5) or fewer persons receiving custodial care shall be classified as a Group R-3 occupancy or shall comply with the International Residential Code. (3-20-14)

c. Delete section 310.5 and replace with the following: Residential Group R-3. Residential occupancies where the occupants are primarily permanent in nature and not classified as Group R-1, R-2, R-4, E or I, including: (3-20-14)

i. Buildings that do not contain more than two (2) dwelling units; (3-20-14)

ii. Boarding houses (nontransient) with sixteen (16) or fewer occupants; (3-20-14)

iii. Boarding houses (transient) with ten (10) or fewer occupants; (3-20-14)

iv. Care facilities that provide accommodations for five (5) or fewer persons receiving care; (3-20-14)

- v. Congregate living facilities (nontransient) with sixteen (16) or fewer occupants; (3-20-14)
- vi. Congregate living facilities (transient) with ten (10) or fewer occupants; or (3-20-14)
- vii. Dwelling units providing day care for twelve (12) or fewer children. (3-20-14)
- d.** Delete section 310.5.1 and replace with the following: Care facilities within a dwelling. Care facilities for twelve (12) or fewer children receiving day care or for five (5) or fewer persons receiving care that are within a single-family dwelling are permitted to comply with the International Residential Code. (3-20-14)
- New** → **e.** Amend IBC section 907.2.3 - Group E as follows: (3-25-16)
- i.** Delete exception No. 1 contained under IBC section 907.2.3 - Group E, and replace with the following: A manual fire alarm system is not required in Group E occupancies with an occupant load of fifty (50) or less. (3-25-16)
- ii.** Add the following as exception No. 2 under IBC section 907.2.3 - Group E: Emergency voice/ alarm communication systems meeting the requirements of Section 907.5.2.2, and installed in accordance with Section 907.6 shall not be required in Group E occupancies with occupant loads of one hundred (100) or less, provided that activation of the manual fire alarm system initiates an approved occupant notification signal in accordance with Section 907.5. (3-25-16)
- iii.** Re-number exception No. 2 as exception No. 3 under IBC section 907.2.3 - Group E. (3-25-16)
- iv.** Delete exception No. 3 and replace with the following as exception No 4: Manual fire alarm boxes shall not be required in Group E occupancies where all of the following apply: (3-25-16)
- (1) 4.1 The building is equipped throughout with an approved automatic sprinkler system installed in accordance with Section 903.3.1.1. (3-25-16)
- (2) 4.2 The emergency voice/alarm communication system will activate on sprinkler waterflow. (3-25-16)
- (3) 4.3 Manual activation is provided from a normally occupied location. (3-25-16)
- f.** Delete footnote (f) contained under Table 2902.1 Minimum Number of Required Plumbing Fixtures, and replace with the following: Drinking fountains are not required for an occupant load of thirty (30) or fewer. (4-4-13)
- g.** Delete footnote (g) contained under Table 2902.1 Minimum Number of Required Plumbing Fixtures and replace with the following: For business occupancies, excluding restaurants, and mercantile occupancies with an occupant load of thirty (30) or fewer, service sinks shall not be required. (3-20-14)
- 02. International Residential Code.** 2012 Edition with the following amendments: (3-20-14)
- a.** Delete exception No. 1 contained under IRC section R101.2 - Scope. (3-20-14)
- b.** Delete exception No. 2 contained under IRC section R101.2 - Scope, and replace with the following: Owner-occupied lodging houses with five (5) or fewer guestrooms shall be permitted to be constructed in accordance with the International Residential Code for One- and Two-family Dwellings. (4-11-15)
- c.** Delete item No. 7 contained under the “Building” subsection of IRC section R105.2 - Work exempt from permit, and replace with the following: Prefabricated swimming pools that are not greater than four (4) feet (one thousand, two hundred nineteen (1219) mm) deep. (4-7-11)
- d.** Add the following item No. 11 at the end of the “Building” subsection of IRC section R105.2 - Work exempt from permit: Flag poles. (3-20-14)

e. Delete IRC section R109.1.3 and replace with the following: Floodplain inspections. For construction in areas prone to flooding as established by Table R301.2(1), upon placement of the lowest floor, including basement, the building official is authorized to require submission of documentation of the elevation of the lowest floor, including basement, required in section R322. (3-29-10)

f. IRC Table R302.1(1) Exterior Walls -- delete Table R302.1(1) and replace with the following:

TABLE R302.1(1)
EXTERIOR WALLS

EXTERIOR WALL ELEMENT		MINIMUM FIRE-RESISTANCE RATING	MINIMUM FIRE SEPARATION DISTANCE
Walls	Fire-resistance rated	1 hour-tested in accordance with ASTM E 119 or UL263 with exposure from both sides	< 3 feet
	Not fire-resistance rated	0 hours	≥ 3 feet
Projections	Fire-resistance rated	1 hour on the underside	≥ 2 feet to < 3 feet
	Not fire-resistance rated	0 hours	≥ 3 feet
Openings in Walls	Not allowed	N/A	< 3 feet
	25% maximum of wall area	0 hours	≥ 3 feet to < 5 feet
	Unlimited	0 hours	5 feet
Penetrations	All	Comply with Section R302.4	< 3 feet
		None required	≥ 3 feet

For SI: 1 foot = 304.8 mm.
 N/A = Not Applicable

(4-11-15)

Revised →

g. Delete the exception contained under IRC section R302.2 -- Townhouses, and replace with the following two (2) exceptions: (3-25-16)

i. When provided with an automatic fire sprinkler system per section R313.1, a common one (1)-hour fire-resistance-rated wall assembly tested in accordance with ASTM E 119 or UL 263 is permitted for townhouses if such walls do not contain plumbing or mechanical equipment, ducts, or vents in the cavity of the common wall. The wall shall be rated for fire exposure from both sides, and shall extend to and be tight against exterior walls and the underside of the roof sheathing. Penetrations of electrical outlet boxes shall be in accordance with Section R302.4. (3-25-16)

ii. Two (2) one (1)-hour fire-resistance-rated wall assemblies (as specified in Section R302.1) or a common two (2)-hour fire-resistance-rated wall assembly tested in accordance with ASTM E 119 or UL 263 are permitted for townhouses. If two (2) one (1)-hour fire-resistance-rated walls are used, plumbing and electrical installations within the wall cavity shall conform to fire-resistance penetration requirements in accordance with section R302.4 through R302.4.2 for each of the two (2) one (1)-hour rated walls penetrated. The two (2)-hour fire-resistance-rated common wall shall not contain plumbing or mechanical equipment, ducts or vents within its wall cavity. The wall shall be rated for fire exposure from both sides, and shall extend to and be tight against the exterior walls and the underside of the roof sheathing. Penetrations of electrical outlet boxes shall be in accordance with Section R302.4. (3-25-16)

h. Delete IRC section R303.4 and replace with the following: R303.4 Mechanical Ventilation.

Dwelling units shall be provided with whole-house mechanical ventilation in accordance with Section M1507.3

Exception: Where the air infiltration rate of a dwelling unit is equal to 5 air changes per hour or greater when tested with a blower door at a pressure of 0.2 inch w.c. (50 pa) in accordance with Section N1102.4.1.2. (4-11-15)

Revised

→ **i.** Delete the exception contained under IRC section R313.1 -- Townhouse automatic fire sprinkler systems, and replace with the following: Exception: Automatic residential fire sprinkler systems shall not be required in townhouses where either two (2) one (1)-hour fire-resistance-rated walls or a common two (2)-hour fire-resistance rated wall, as specified in exception 2 of section R302.2 is installed between dwelling units or when additions or alterations are made to existing townhouses that do not have an automatic residential fire sprinkler system installed. (3-25-16)

j. Delete IRC section R313.2. (3-29-10)

k. Add the following to IRC section R315.3 - Where required in existing dwellings: Exceptions: 1. Work involving the exterior surfaces of dwellings, such as, but not limited to, replacement of roofing or siding, or the addition or replacement of windows or doors, or the addition of a porch or deck or electrical permits, are exempt from the requirements of this section; and 2. Installation, alteration or repairs of noncombustion plumbing or mechanical systems are exempt from the requirements of this section. (3-20-14)

l. Delete IRC section R322.1.10. (3-29-10)

m. Delete IRC section R322.2.2 subparagraph 2.2, and replace with the following: The total net area of all openings shall be at least one (1) square inch (645 mm²) for each square foot (0.093 m²) of enclosed area, or the opening shall be designed and the construction documents shall include a statement that the design and installation of the openings will provide for equalization of hydrostatic flood forces on exterior walls by allowing the automatic entry and exit of floodwaters. (3-20-14)

n. Delete IRC section R501.3 and its exceptions. (3-20-14)

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. 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)

New →

- a.** Add the following as new subsection C101.5.3: Industrial, electronic, and manufacturing equipment. Buildings or portions thereof that are heated or cooled exclusively to maintain the required operating temperature of 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 complying with this code. (3-25-16)
- b.** 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)

- c.** 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. (3-25-16)
- d.** 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)

- e. 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

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.

(3-25-16)

- f. 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. (3-25-16)

- g. 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. (3-25-16)

- h. 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)

- i. 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: (3-25-16)

- 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)

j. 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. (3-25-16)

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 i., ii., or iii. as follows: (3-25-16)

- i. Sections R402.2 through R402.3, R403.2.1, R404.1 and Table R402.6; (3-25-16)
- ii. Section R405 Simulated Performance Alternative (Performance); or (3-25-16)
- 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 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-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
6	0.30	0.60	NR	49	8	30	15/19	10, 4 ft.	10/13

- 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.

(3-25-16)

m. Delete section R404.1 (N1104.1) and replace with the following: Lighting equipment (Mandatory). A minimum of fifty percent (50%) of the lamps in permanently installed lighting fixtures shall be high-efficacy lamps or a minimum of fifty percent (50%) of the permanently installed lighting fixtures shall contain only high efficacy lamps. (3-20-14)

05. References to Other Codes. Where any provisions of the codes that are adopted in this Section make reference to other construction and safety-related model codes or standards which have not been adopted by the involved authority having jurisdiction, to the extent possible, such reference should be construed as pertaining to the equivalent code or standard that has been duly adopted by such jurisdiction. (3-29-10)

005. OFFICE -- OFFICE HOURS -- STREET ADDRESS -- MAILING ADDRESS -- TELEPHONE, FACSIMILE AND WEB ADDRESS.
 The principal place of business of the Division of Building Safety is in Meridian, Idaho. The office is located at 1090 E. Watertower St., Meridian, Idaho and is open from 8 a.m. to 5 p.m., except Saturday, Sunday and legal holidays. The mailing address is: Division of Building Safety, 1090 E. Watertower St., Meridian, Idaho 83642. The telephone number of the office is (208) 334-3896. The facsimile number of the office is (208) 855-9399. The Department website at <http://dbs.idaho.gov>. (3-30-06)

006. PUBLIC RECORDS ACT COMPLIANCE.
 The rules contained herein have been promulgated according to the provisions of Title 67, Chapter 52, Idaho Code and are public records. (3-30-06)