IDAPA 24 – DIVISION OF OCCUPATIONAL AND PROFESSIONAL LICENSES IDAHO BUILDING CODE BOARD

24.39.30 – Rules of Building Safety (Building Code Rules)

Who does this rule apply to?

This rule applies to those who perform building construction in Idaho, and those who request plans examination and inspection services from the Division, including public entities and modular building manufacturers.

What is the purpose of this rule?

The rule adopts the specific editions of the building codes prescribed by Idaho Code, and adopted by the Idaho Building Code Board, along with amendments to such building codes as determined by the Board. The rule also provides the fees for building plans examination services, permits and inspections provided by the Division, as well as prescribes the authority, processes and other requirements related to how the Division performs inspections on all public buildings and school facilities, as well as for modular structures and manufactured homes.

What is the legal authority for the agency to promulgate this rule?

This rule implements the following statute(s) passed by the Idaho Legislature:

Health and Safety -

- Title 39, Chapter 41, Idaho Code Idaho Building Code Act
- Title 39, Chapter 43, Idaho Code Modular Buildings
- 39-4107, Idaho Code Powers and Duties
- 39-4109, Idaho Code Application of Codes

Who do I contact for more information on this rule?

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24.39.30 - RULES OF BUILDING SAFETY (BUILDING CODE RULES)

000. LEGAL AUTHORITY.

The rules are promulgated pursuant to Sections 33-356, 39-4107, 39-4109, 39-4112, 39-4113, 39-9701, Idaho Code. (7-1-24)

001. SCOPE.

The rules prescribe the criteria for enforcement and administration of the Idaho Building Code Act by the Idaho Building Code Board and the Division of Occupational and Professional Licenses and the integrated design and fundamental commissioning of public school facilities. (7-1-24)

002. **DEFINITIONS.**

- **01. Listing Agency**. A person, firm, association, partnership or corporation which is in the business of listing or labeling and which maintains a periodic inspection program on current production of listed materials, and which makes available, not less frequently than annually, a published report of such listing in which specific information is included that the product has been tested to nationally approved standards and found safe for use in a specified manner.

 (7-1-24)
- **02. Minor Alteration**. The following definition is used for the purpose of administering annual permits. (7-1-24)
- a. Minor alterations shall include, but are not limited to, the following: partition walls constructed within a defined room; relocation of or existing openings or installation of new doors and windows in non-load bearing walls and not in construction meant to compartmentalize fire; window replacement in unaltered existing openings; roof repairs involving installation of less than one hundred (100) square feet of new roof covering; and new suspended ceilings that are not part of a required fire resistive assembly.

 (7-1-24)
- **b.** Minor alterations shall not include: work that alters the fire resistive characteristics of the building or fire suppression systems; work that creates new openings in construction meant to compartmentalize fire such as fire walls, fire barriers, fore partitions, smoke barriers, smoke partitions, horizontal assemblies, shaft enclosures, stair enclosures; work that increases the floor area or height of the building; work that changes the structural load path of the building for gravity or horizontal loads; work that reduces the thermal resistant capacity of the building envelop; changes in the occupancy classification of the building or space; increases in the floor loads. (7-1-24)

003. -- 199. (RESERVED)

200. INTEGRATED DESIGN AND FUNDAMENTAL COMMISSIONING OF PUBLIC SCHOOL FACILITIES.

- **01. Technical and Educational Information**. Technical and educational information related to integrated design and fundamental commissioning in the form of the American Institute of Architects Integrated Project Delivery Guide; Portland Energy Conservation, Inc. (PECI) Commissioning Guides; ASHRAE Guideline 0-2005-The Commissioning Process; and the Northwest Energy Efficiency Alliance Integrated Design Special Focus on Energy Performance Guide is available on the Division's. A building commissioned under the prescriptive approaches defined by any of the above-named national organizations is deemed to have completed the Fundamental Commissioning process. (7-1-24)
- **02. Commissioning Agents**. The Division has compiled and made available for public examination a list of all known third party building commissioning agents in Idaho and its contiguous states. The Division has ensured that all such commissioning agents appearing on this list have been certified by the Building Commissioning Association (BCA) or other similar certifying entity. (7-1-24)

03. Annual Optimization Review. (7-1-24)

- a. The third-party commissioning agent who performed the initial fundamental commissioning for a public school building must provide the school district with a written report identifying the systems which will be subject to the Idaho Code Section 33-356 annual optimization review and identifying the system requirements and/or other relevant measuring criteria. The written report shall, at a minimum include the following: (7-1-24)
- i. Verification that the heating, ventilation, and air conditioning (HVAC) systems, controls, dampers, valves, sensors and other equipment used to control the system are functioning as they were at the commissioning of the building;

 (7-1-24)

- ii. Verification that the lighting controls are functioning as they were at the commissioning of the building; and (7-1-24)
- iii. The requirement that any changes made to any of the controls contained on the agent's list after the initial commissioning be re-set back to the commissioned settings unless it can be demonstrated that the new settings result in greater energy efficiency. (7-1-24)
- **b.** The annual optimization review shall be performed by persons qualified to make the required determinations and adjustments. (7-1-24)
- c. Following the annual optimization review, the school district shall submit to the Division written verification indicating (1) the systems identified by the commissioning agent, including those identified in this Section are functioning as they were at the initial commissioning; and (2) identifying the persons performing the optimization and their qualifications. (7-1-24)
- **O4.** Commissioning Anniversary Date. The date upon which the commissioning agent provides the school district with the required written report described in Paragraph 038.04.b. of these rules shall be the commissioning anniversary date for purposes of this Section. If a school district seeks to qualify a building for the building replacement value calculation, the annual optimization review shall be performed within thirty (30) days of the annual commissioning anniversary date following the first year the building is in operation. The written verification required by Paragraph 038.03.e. of these rules is due to the Division not later than sixty (60) days after the annual commissioning anniversary date. (7-1-24)

05. Fundamental Building Commissioning Requirements.

(7-1-24)

- **a.** School districts seeking to qualify a building for the building replacement value calculation shall engage a building commissioning agent. (7-1-24)
- b. The commissioning agent must document the owner's requirements for each commissioned system in the facility. All HVAC and controls systems, duct work and piping, renewable and alternative technologies, lighting controls and day lighting, waste heat recovery, and any other advanced technologies incorporated in the building must be commissioned. Building envelope systems must also be verified. The owner's requirements for these systems may include efficiency targets and other performance criteria such as temperature and lighting levels that will define the performance criteria for the functional performance testing that occurs prior to acceptance.

(7-1-24)

- **c.** The commissioning agent shall include commissioning requirements in the project construction documents. This includes the scope of commissioning for the project, the systems to be commissioned, and the various requirements related to schedule, submittal reviews, testing, training, O & M manuals, and warranty reviews.

 (7-1-24)
- **d.** The commissioning agent shall develop and utilize a commissioning plan. This plan must include an overview of the commissioning process for the project, a list of commissioned systems, primary commissioning participants and their roles, a communication and management plan, an outline of the scope of commissioning tasks, a list of work products, a schedule, and a description of any commissioning testing activities. (7-1-24)
- e. The commissioning agent must submit a report to the owner once the commissioning plan has been executed. (7-1-24)

201. -- 499. (RESERVED)

500. PERMITS AND PLAN REVIEW.

01. Annual Permit. In lieu of an individual permit for each minor alteration to an already approved building, the Division may issue an annual permit upon application therefor to any state agency or state governmental organization regularly employing one (1) or more qualified trade persons in the building, structure or on the premises

or campus owned or operated by the applicant for the permit. The agency to whom an annual permit is issued shall keep a detailed record of alterations made under such annual permit. The Division shall be allowed access to such records upon request or such records shall be filed with the Division as designated. The permit holder shall request inspections and make the work accessible for inspection as required by the adopted codes and herein. (7-1-24)

02. Plans Not Required. Plans are not required for group U occupancies of Type V conventional lightframe wood construction. (7-1-24)

a. Technical Service Fee. One hundred dollars (\$100) per hour. (7-1-24)

b. Building Permit Fees. The determination of value or valuation will be made by the administrator and includes the total value of all construction work for which a permit is issued.

TABLE 1-A - BUILDING PERMIT FEES							
Total Valuation		Fee					
\$1 to \$500	=	\$23.50					
\$501 to \$2,000	=	\$23.50 for the first \$500 plus \$3.05 for each additional \$100, or fraction thereof, to and including \$2,000					
\$2,001 to \$25,000	=	69.25 for the first $2,000$ plus 14 for each additional $1,000$, or fraction thereof, to and including $25,000$					
\$25,001 to \$50,000	=	\$391.75 for the first \$25,000 plus \$10.10 for each additional \$1,000, or fraction thereof, to and including \$50,000					
\$50,001 to \$100,000	=	\$643.75 for the first \$50,000 plus \$7 for each additional \$1,000, or fraction thereof, to and including \$100,000					
\$100,001 to \$500,000	=	\$993.75 for the first \$100,000 plus \$5.60 for each additional \$1,000, or fraction thereof, to and including \$500,000					
\$500,001 to \$1,000,000	=	\$3,233.75 for the first \$500,000 plus \$4.75 for each additional \$1,000, or fraction thereof, to and including \$1,000,000					
\$1,000,001 to \$5,000,000	=	\$5,608.75 for the first \$1,000,000 plus \$3.65 for each additional \$1,000, or fraction thereof, to and including \$5,000,000					
\$5,000,001 to \$10,000,000	=	\$20,208.75 for the first \$5,000,000 plus \$2.75 for each additional \$1,000, or fraction thereof, to and including \$10,000,000					
\$10,000,001 and up	=	\$33,958.75 for the first \$10,000,000 plus \$2 for each additional \$1,000, or fraction thereof					

(7-1-24)

- **c.** Fees for Annual Permits. A fee for inspections performed on annual permits shall be charged at the rate of one hundred dollars (\$100) per inspection. The Division shall bill the applicant for annual permits and failure of the applicant to pay the fee within sixty (60) days may result in cancellation of the annual permit. (7-1-24)
- d. Plan Review Fees. Plan review fees shall be charged at an hourly rate of one hundred dollars (\$100) per hour up to a maximum of sixty-five percent (65%) of the calculated building permit fee with a minimum required fee of forty percent (40%) of the calculated building permit fee. All requests for plan review services shall be accompanied by a payment in the amount of at least forty percent (40%) of the calculated building permit fee. Upon completion of the plan review, any additional fees, above the minimum required, are due to the Division by the requesting party. (7-1-24)

501. -- **599.** (RESERVED)

600. IDAHO BUILDING CODES.

Pursuant to Sections 39-4109 and 39-4109A, Idaho Code, the Board adopts the following international codes with identified amendments: (7-1-24)

- **01. International Building Code**. The 2018 Edition, including appendices pertaining to building accessibility, with the following amendments: (7-1-24)
- a. Delete Section 305.2.3 and replace with the following: 305.2.3 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.

 (7-1-24)
- i. Delete Section 308.2.4 and replace with the following: 308.2.4 Five (5) or fewer persons receiving custodial care. A facility with 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. (7-1-24)
- ii. Delete Section 308.3.2 and replace with the following: 308.3.2 Five (5) or fewer persons receiving medical care. A facility with five (5) or fewer persons receiving medical care shall be classified as a Group R-3 occupancy. (7-1-24)
- iii. Delete Section 308.5.4 and replace with the following: 308.5.4 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. (7-1-24)
- **b.** Section 310.4: Add the following: "Dwelling units providing day care for twelve (12) or fewer children". (7-1-24)
- c. Section 310.4.1. Delete and replace with the following: 310.4.1 Care facilities within a dwelling. Care facilities for twelve (12) or fewer children receiving day care or for five (5) or fewer persons receiving personal care or custodial care that are within a one- or two-family dwelling are permitted to comply with the International Residential Code. (7-1-24)
- **d.** Add new Section 602.1.2: 602.1.2 Alternative provisions. As an alternative to the construction types defined in Sections 602.2 through 602.5, buildings and structures erected or to be erected, altered, or extended in height or area may be classified as construction type IV-A, IV-B, or IV-C in accordance with the provisions adopted in Paragraph 004.01.b of these rules. Buildings and structures classified as construction type IV-A, IV-B, or IV-C shall comply with the provisions adopted in Paragraph 004.01.h of these rules and all other applicable provisions of this code. (7-1-24)
- e. Table 2902.1 Minimum Number of Required Plumbing Fixtures. Delete footnote and replace with the following: e For business occupancies, excluding restaurants, and mercantile occupancies with an occupant load of thirty (30) or fewer, service sinks shall not be required. (7-1-24)
- f. Table 2902.1 Minimum Number of Required Plumbing Fixtures. Delete footnote f and replace with the following: f Drinking fountains are not required for an occupant load of thirty (30) or fewer. (7-1-24)
 - g. Section 3113 Relocatable Buildings. Delete. (7-1-24)
- **02. International Building Code, 2021 Edition**. The following provisions of the 2021 Edition related to mass timber construction: (7-1-24)
- a. In Section 202, the definitions of the terms MASS TIMBER; NONCOMBUSTIBLE PROTECTION (FOR MASS TIMBER); SECONDARY STRUCTURAL MEMBERS; and WALL, LOAD

BEARING; (7-1-24)

- **b.** Sections 403.3.2, 508.4.4.1, 509.4.1.1, 602.4 through 602.4.3.6, 703.6, 703.7, 704.4, 722.7 through 722.7.2.2, 1705.5.3, 1705.20, 2304.10.1, 3313.1 through 3313.3.3, 3313.5, and 3314.1; (7-1-24)
- **c.** Tables 504.3, 504.4, 506.2, 601, 705.5, 722.7.1(1), 722.7.1(2), and 1705.5.3, including any note following each table adopted in this subparagraph; and (7-1-24)
- **d.** In Chapter 35, the referenced standards ANSI/APA PRG 320—2019: Standard for Performance-rated Cross-laminated Timber, referenced in Sections 602.4 and 2303.1.4, and ASTM D3498—03(2011): Standard Specification for Adhesives for Field-Gluing Plywood to Lumber Framing for Floor Systems, referenced in Section 703.7. (7-1-24)
- **03. International Residential Code, 2018 Edition**. Parts I, II, III, and IX of the 2018 Edition for one (1)- and two (2)- family dwellings, with the following amendments: (7-1-24)
- **a.** Section R101.2 Scope. Delete the exception and replace with the following: Exception: The following shall also be permitted to be constructed in accordance with this code: 1. Owner-occupied lodging houses with five (5) or fewer guestrooms and ten (10) or fewer total occupants. 2. A care facility with five (5) or fewer persons receiving custodial care within a dwelling unit or single-family dwelling. 3. A care facility for five (5) or fewer persons receiving personal care that are within a dwelling unit or single-family dwelling. 4. A care facility with twelve (12) or fewer children receiving day care within a dwelling unit or single-family dwelling. (7-1-24)
- **b.** Section R105.2. Amend Item number 7 under the "Building" subheading Replace the words "24 inches (610 mm)" with "four (4) feet (1219) mm)" (7-1-24)
 - **c.** Section R105.2. Add the following exemption under the "Building" subheading: 11. Flag poles. (7-1-24)
 - **d.** Section R301.2.1.2 Protection of Openings. Delete. (7-1-24)
 - e. Table R302.1(1). Delete and replace with the following:

TABLE R302.1(1) - EXTERIOR WALLS

EXTERIO	DR WALL ELEMENT	MINIMUM FIRE-RESISTANCE RATING	MINIMUM FIRE SEPARATION DISTANCE
Walls	Fire-resistance rated	1 hour-tested in accordance with ASTM E 119, UL263, or Section 703.3 of the International Building Code with exposure from both sides	< 3 feet
	Not fire-resistance rated	0 hours	≥ 3 feet
Projections	Fire-resistance rated	1 hour on the underside, or heavy timber, or fire retardant-treated wood ^{a,b}	≥ 2 feet to < 3 feet
	Not fire-resistance rated	0 hours	≥ 3 feet
Openings	Not allowed	N/A	< 3 feet
in	25% maximum of wall area	0 hours	≥ 3 feet to < 5 feet
Walls	Unlimited	0 hours	5 feet

EXTERIO	OR WALL ELEMENT	MINIMUM FIRE-RESISTANCE RATING	MINIMUM FIRE SEPARATION DISTANCE		
Penetrations	All	Comply with Section R302.4	< 3 feet		
Perietrations	All	None required	≥ 3 feet		

For SI: 1 foot = 304.8 mm.

N/A = Not Applicable

^aThe fire-resistance rating shall be permitted to be reduced to zero (0) hours on the underside of the eave overhang if fireblocking is provided from the wall top plate to the underside of the roof sheathing.

bThe fire-resistance rating shall be permitted to be reduced to zero (0) hours on the underside of the rake overhang where gable vent openings are not installed. (7-1-24)

f. Delete Table R302.6 Dwelling-Garage Separation and replace with the following table:

Separation	Material
From the residence, attics, and habitable rooms above the garage	Not less than 5/8-inch Type X gypsum board or
Structure(s) supporting floor/ceiling assemblies used for separation required by this section	equivalent applied to the garage side
Garages located less than 3 feet from a dwelling unit on the same lot	Not less than 5/8-inch Type X gypsum board or equivalent applied to the interior side of exterior walls that are within this area

(7-1-24)

g. Section R302.13 Fire protection of floors. Delete.

(7-1-24)

- **h.** Section R303.4. Delete and replace with the following: Mechanical Ventilation. Dwelling units shall be provided with whole-house mechanical ventilation in accordance with Section M1505.4. (7-1-24)
- i. Section R313.1 Townhouse automatic fire sprinkler systems. Delete the exception 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 item number 2 of Section R302.2.2 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. (7-1-24)
 - j. Section R313.2 One- and two-family dwellings automatic fire sprinkler systems. Delete. (7-1-24)
 - **k.** Section R314.2.2 Alterations, repairs and additions Exception Item #2. Delete. (7-1-24)
 - l. Section R315.2.2 Alterations, repairs and additions Exception Item #2. Delete. (7-1-24)
 - m. Section R322.1.10 As-built elevation documentation. Delete. (7-1-24)
- n. Tables R403 Minimum Depth (D) and Width (W) of Crushed Stone Footings (inches), R403.1(1) Minimum Width and Thickness for Concrete Footings for Light-Frame Construction (inches), R403.1(2) Minimum Width and Thickness for Concrete Footings for Light-Frame Construction and Brick Veneer (inches), and R403.1(3) Minimum Width and Thickness for Concrete Footings with Cast-In-Place or Fully Grouted Masonry Wall Construction (inches). Delete.
 - o. Add the following as Table R403.1: (7-1-24)

TABLE R403.1 MINIMUM WIDTH OF CONCRETE, PRECAST, OR MASONRY FOOTINGS (inches)^a

	LOAD-BEARING VALUE OF SOIL (psf)									
	1,500	2,000	3,000	≥ 4,000						
Conventional light-frame construction										
1-Story	12	12	12	12						
2-Story	15	12	12	12						
3-Story	23	17	12	12						
4-i	nch brick veneer over	light frame or 8-inch h	ollow concrete maso	nry						
1-Story	12	12	12	12						
2-Story	21	16	12	12						
3-Story	32	24	16	12						
	8-inch s	olid or fully grouted m	nasonry							
1-Story	16	12	12	12						
2-Story	29	21	14	12						
3-Story	42	32	21	16						

For SI: 1 inch = 25.4 mm, 1 pound per square foot = 0.0479 kPa.

^aWhere minimum footing width is twelve (12) inches, use of a single wythe of solid or fully grouted twelve (12)-inch nominal concrete masonry units is permitted. (7-1-24)

- **p.** Section R403.1.1. Delete and replace with the following: R403.1.1 Minimum size. Minimum sizes for concrete and masonry footings shall be as set forth in Table R403.1 and Figure R403.1(1). The footing width (W) shall be based on the load bearing value of the soil in accordance with Table R401.4.1. Spread footings shall be at least six (6) inches in thickness (T). Footing projections (P) shall be at least two (2) inches and shall not exceed the thickness of the footing. The size of footings supporting piers and columns shall be based on the tributary load and allowable soil pressure in accordance with Table R401.4.1. Footings for wood foundations shall be in accordance with the details set forth in Section R403.2 and Figures R403.1(2) and R403.1(3).
- **q.** Section R602.10. Delete and replace with the following: 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 designed and constructed in accordance with Section R301.1.

 (7-1-24)

04. International Existing Building Code. 2018 Edition.

(7-1-24)

- **05. International Energy Conservation Code Commercial Provisions**. The 2018 Edition with the following amendments: (7-1-24)
- a. Add new Section C101.5.2: C101.5.2 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.

 (7-1-24)

b. Add the following Exemptions to section C402.1.1:

(7-1-24)

- i. Exemption 4. Accessory utility and storage buildings and sports practice buildings accessory to A, B, and E occupancies where buildings maintain no heating or cooling or where intermittent heating and cooling systems are installed. (7-1-24)
- ii. Exemption 5. Buildings for domestic water wells, irrigation wells, sewer pump facilities, and sewer lift station buildings where equipment produces internal heat loads and where intermittent heating or cooling is provided to prevent freezing or overheating of equipment. (7-1-24)
- **c.** Add the following as exception number 7 under Section C403.5 Economizers (Prescriptive): 7. Unusual outdoor air contaminate conditions Systems where special outside air filtration and treatment for the reduction and treatment of unusual outdoor contaminants, makes an air economizer infeasible. (7-1-24)
- **06. International Energy Conservation Code Residential Provisions**. The 2018 Edition with the following amendments: (7-1-24)
- **a.** R202 General Definitions. Add the following to the definition of "Conditioned Space": This definition shall not apply to garage spaces or other similar spaces where heating or cooling is installed for frost protection or intermittent use. (7-1-24)
- **b.** Table R402.1.2 Insulation and Fenestration Requirements by Component. Delete the rows in climate zones "5 and Marine 4" and "6" and replace with the following:

	TABLE R402.1.2 INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT ^a											
Climate Zone Fenestration U-Factor Skylight U-factor SHGC ^{b, e} Glazed Fenestration SHGC ^{b, e} R-Value										_		
5	0.32	0.55	NR	38	20 or 13+5 ^h	13/17	30 ^g	15/19	10, 2 ft	15/19		
6	0.30	0.55	NR	49	22 or 13+5 ^h	15/20	30 ^g	15/19	10, 4 ft	15/19		

(7-1-24)

- **c.** Table R402.1.2 Insulation and Fenestration Requirements by Component. Add the following as footnote k to the Table title: k. For residential log home building thermal envelope construction requirements see Section R402.6. (7-1-24)
- **d.** Table R402.1.4 Equivalent U-Factors. Delete the rows in climate zones "5 and Marine 4" and "6" and replace with the following:

TABLE R402.1.4 EQUIVALENT U-FACTORS ^a									
Climate Fenestration Skylight Ceilin Zone U-factor U-factor U-factor				Frame Wall U-factor	Mass Wall U-factor ^b	Floor U-factor	Basement Wall U-factor	Crawlspace Wall U-factor	
5	0.32	0.55	0.030	0.060	0.082	0.033	0.050	0.055	

TABLE 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	Crawlspace Wall U-factor	
6	0.30	0.55	0.026	0.057	0.060	0.033	0.050	0.055	

(7-1-24)

- e. Section R402.4.1.2. Add the following exception: Visual Inspection. The Permit Holder will determine at the time of permit application the method of determining building envelope tightness. A visual inspection shall be considered acceptable in lieu of testing when the items listed in Table R402.4.1.1, applicable to the method of construction, are field verified. (7-1-24)
- f. Add new Section R402.6: R402.6 Residential log home thermal envelope. Residential log home construction shall comply with Section R401 (General), Section R402.4 (Air leakage), Section R402.5 (Maximum fenestration U-factor and SHGC), Section R403.1 (Controls), the mandatory sections of Sections R403.3 through R403.9, Section R404 (Electrical Power and Lighting Systems), and either 1., 2., or 3. as follows: 1. Sections R402.2 through R402.3, Section R403.3.1 (Insulation), Section R404.1 (Lightning equipment), and Table R402.6 (Log Home Prescriptive Thermal Envelope Requirements by Component). 2. Section R405 (Simulated Performance Alternative). 3. REScheck (U.S. Department of Energy Building Codes Program). (7-1-24)
 - **g.** Add new Table R402.6:

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

^aThe fenestration U-factor column excludes skylights. The SHGC column applies to all glazed fenestration.

^c90% 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.

^bR-5 shall be added to the required slab edge R-values for heated slabs.

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	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

^aThe fenestration U-factor column excludes skylights. The SHGC column applies to all glazed fenestration.

^c90% 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.

(7-1-24)

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^bR-5 shall be added to the required slab edge R-values for heated slabs.