

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, 39-4109A, 39-4112, 39-4113, Idaho Code. ()

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. ()

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. ()

02. Minor Alteration. The following definition is used for the purpose of administering annual permits. ()

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. ()

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, fire 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. ()

100. (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 website. 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. ()

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. ()

03. Fundamental Commissioning Requirements. ()

a. School districts seeking to qualify a building for the building replacement value calculation shall engage a building commissioning agent. ()

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 which occurs prior to acceptance. ()

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. ()

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. ()

e. The commissioning agent must submit a report to the owner once the commissioning plan has been executed. ()

04. Annual Optimization Review. ()

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 commissioning agent's written report shall, at a minimum, include the following: ()

i. Verification that the heating, ventilation, and air conditioning (HVAC) controls, dampers, valves, sensors and other equipment used to control the system are functioning as they were at the commissioning of the building; ()

ii. Verification that the lighting controls are functioning as they were at the commissioning of the building; and ()

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. ()

b. The Idaho Code Section 33-356 annual optimization review must be performed by persons qualified to make the required determinations and adjustments. ()

e. Following the annual optimization review, the school district must submit to the Division written verification (1) indicating the systems identified by the commissioning agent, including those identified in (a) above, are functioning as they were at the initial commissioning; and (2) identifying the persons performing the optimization and their qualifications. ()

04. Commissioning Anniversary Date. The date upon which the commissioning agent provides the school district with the required written report described in Rule 200.04.a. is 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 Rule 200.04.c. is due to the Division no later than sixty (60) days after the annual commissioning anniversary date. ()

300-400. (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. ()

02. Plans Not Required. Plans are not required for group U occupancies of Type V conventional light-frame wood construction. ()

03. Fee Schedule.

a. Technical Service Fee. One hundred dollars (\$100) per hour. ()

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.

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

()

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. ()

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. ()

e. Refund of Plan Review Fees. Plan review fees are non-refundable. ()

600. IDAHO BUILDING CODE.

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

01. International Building Code. The 2018 Edition, including appendices pertaining to building accessibility, with the following amendments: ()

a. Section 305.2.3. Replace the word “five” with the word “twelve (12)”. ()

b. Section 310.4. Add the following: Dwelling units providing day care for twelve (12) or fewer children. ()

c. Section 310.4.1. Delete 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 personal care or custodial care that are within a one- or two-family dwelling are permitted to comply with the International Residential Code. ()

d. Add new Section 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.h 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. ()

e. Table 2902.1 Minimum Number of Required Plumbing Fixtures. Delete footnote ^e 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. ()

f. Table 2902.1 Minimum Number of Required Plumbing Fixtures. Delete footnote ^f reference from current cell and place in column header labeled “Drinking Fountains”. Delete footnote ^f and replace with the following: ^f Drinking fountains are not required for an occupant load of thirty (30) or fewer. ()

g. Section 3113. Relocatable Buildings. Delete. ()

02. International Building Code. The following provisions of the 2021 Edition related to mass timber construction: ()

a. In Section 202, the definitions of the terms MASS TIMBER; NONCOMBUSTIBLE PROTECTION (FOR MASS TIMBER); SECONDARY STRUCTURAL MEMBERS; and WALL, LOAD BEARING; ()

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; ()

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 footnote following each table adopted in this subparagraph; and ()

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. ()

03. International Residential Code. Parts I, II, III, and IX of the 2018 Edition for one (1)- and two (2)- family dwellings, with the following amendments: ()

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. ()

b. Section R105.2. Amend Item 7 under “Building” subheading: Replace the words “24 inches (610 mm)” with “four (4) feet (1219 mm)”. ()

c. Section R105.2. Add the following exemption under the “Building” subheading of: 11. Flag poles. ()

d. Section R109.1.3. Delete 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. ()

e. Section R301.2.1.2 Protection of Openings. Delete. ()

f. Table R302.1(1). Delete and replace with the following:

TABLE R302.1(1) - EXTERIOR WALLS

EXTERIOR WALL ELEMENT	MINIMUM FIRE-RESISTANCE RATING	MINIMUM FIRE SEPARATION DISTANCE
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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 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

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

^b The 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. ()

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

h. Section R303.4. Delete and replace with the following: R303.4 Mechanical Ventilation. Dwelling units shall be provided with whole-house mechanical ventilation in accordance with Section M1505.4. ()

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. ()

j. Section R313.2 One- and two-family dwellings automatic fire sprinkler systems. Delete. ()

k. Section R314.2.2 Alterations, repairs and additions. Amend Exception 1 to add the words “but not limited to,” after the words “such as” and before the words “the replacement”. ()

l. Section R315.2.2 Alterations, repairs and additions. Amend Exception 1 to add the words “but not limited to,” after the words “such as” and before the words “the replacement”. ()

m. Section R322.1.10 As-built elevation documentation. Delete. ()

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:

**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-inch brick veneer over light frame or 8-inch hollow concrete masonry				
1-Story	12	12	12	12
2-Story	21	16	12	12
3-Story	32	24	16	12
8-inch solid or fully grouted masonry				
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.

^a Where 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. ()

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. Add the words “or the most current edition of APA System Report SR-102 as an alternate method” after the words “Section R602.12”. ()

04. International Existing Building Code. 2018 Edition.

05. International Energy Conservation Code. 2018 Edition with the following amendments:

a. Add new Section 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. ()

b. Section C402.5 Air leakage—thermal envelope (Mandatory). Add Exception: For buildings having over fifty thousand (50,000) square feet of conditioned floor area, air leakage testing shall be permitted to be conducted on less than the whole building, provided the following portions of the building are tested and their measured air leakage is area-weighted by the surface areas of the building envelope: 1. The entire floor area of all stories that have any spaces directly under a roof. 2. The entire floor area of all stories that have a building entrance or loading dock. 3. Representative above-grade wall sections of the building totaling at least twenty-five percent (25%) of the above-grade wall area enclosing the remaining conditioned space. Floor area tested under subparagraphs 1. or 2. of this exception shall not be included in the twenty-five percent (25%) of above-grade wall sections tested under this subparagraph. ()

c. Section C403 Building Mechanical Systems. Delete all sections of C403 with the exception of C403.4 Heating and cooling system controls and C403.5 Economizers.

~~d. Section C404 Service Water Heating (Mandatory). Delete.~~

e. Section C405 Electrical Power and Lighting Systems. Delete.

f. Section C406 Additional Efficiency Package Options. Delete.

g. Section C407 Total Building Performance. Delete.

~~h. Section C408 Maintenance Information and System Commissioning. Delete.~~

i. Section C502.2.3 Building mechanical systems. Delete.

j. Section C502.2.4 Service water-heating systems. Delete.

k. Section C502.2.6 Lighting power and systems. Delete.

l. Section C503.4 Heating and cooling systems. Delete.

m. Section C503.5 Service hot water systems. Delete.

n. Section C503.6 Lighting systems. Delete.

o. R202 General Definitions. Add the following to the definition of “Conditioned Space”: This definition shall not apply to garage spaces where supplemental heating or cooling is installed.

p. 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 ^b	Skylight U-factor ^b	Glazed Fenestration SHGC ^{b, c}	Ceiling R-Value	Wood Frame Wall R-Value	Mass Wall R-Value ⁱ	Floor R-Value	Basement ^c Wall R-Value	Slab ^d R-Value & Depth	Crawlspace ^c Wall 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

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q. 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. ()

r. 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 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
5	0.32	0.55	0.030	0.060	0.082	0.033	0.050	0.055
6	0.30	0.55	0.026	0.057	0.060	0.033	0.050	0.055

()

s. Section R402.4.1.2. Delete and replace with: Visual inspection. 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. ()

t. Add new Section R402.6. Residential log home thermal envelope. Residential log home construction shall comply with Section R401 (General), Section R402.4 (Air leakage), and Table R402.6 (Log Home Prescriptive Thermal Envelope Requirements by Component). ()

u. 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
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.

()

v. Section R403 Systems. Delete all sections of R403 with the exception of R403.3.1.

i. Delete Section R403.3.1 and replace with the following: R403.3.1 Duct insulation requirements. Supply and return ducts located in an attic space shall have an R-value of not less than R-8.

w. Section R404 Electrical Power and Lighting Systems. Delete.

x. Section R405 Simulated Performance Alternative (Performance). Delete.

y. Section R406.3 Energy Rating Index. Delete and replace with the following: R406.3 Energy Rating Index. The Energy Rating Index (ERI) shall be determined in accordance with RESNET/ICC 301. Energy used to recharge or refuel a vehicle used for transportation on roads that are not on the building site shall not be included in the ERI reference design or the rated design. ()

z. Table R406.4 Maximum Energy Rating Index. Delete and replace with the following:

TABLE R406.4 - MAXIMUM ENERGY RATING INDEX

Climate Zone	Energy Rating Index ^a
5	68
6	68

^a Where on-site renewable energy is included for compliance using the ERI analysis of Section R406.4, the building

shall meet the mandatory requirements of Section R406.2, and the building thermal envelope shall be greater than or equal to the levels of efficiency and SHGC in Table R402.1.2 or Table R402.1.4 of the 2015 International Energy Conservation Code. ()