

IRC TAG Significant Changes Review

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
CHAPTER 1 SCOPE AND ADMINISTRATION					
R101.2	Scope and General Requirements	See existing amendment report	No	YES, Modify Existing Amendment	TAG Proposal 24-GP2-045 TAG Proposal 24-GP2-051
R101.2 Scope. The provisions of this code shall apply to the construction, <i>alteration</i>, movement, enlargement, replacement, <i>repair</i>, equipment, use and occupancy, location, removal and demolition of detached one- and two-family <i>dwellings</i> and <i>townhouses</i> not more than three <i>stories above grade plane</i> in height with a separate means of egress and their <i>accessory structures</i> not more than three <i>stories above grade plane</i> in height. Exception: The following shall be permitted to be constructed in accordance with this code where provided with an automatic sprinkler system complying with Section P2904: 1. Live/work units located in <i>townhouses</i> and complying with the requirements of Section 508.5 of the <i>International Building Code</i>. 2. <i>Owner-occupied lodging houses</i> with five or fewer <i>guestrooms</i>. 3. A care facility with five or fewer <i>persons</i> receiving custodial care within a <i>dwelling unit</i>. 4. A care facility with five or fewer persons receiving medical care within a <i>dwelling unit</i>. 5. A <i>day</i> care facility for five or fewer <i>persons of any age</i> receiving care within a <i>single-family dwelling unit</i>.					
R102.6.1	Applicability			NO	
R102.6.1 Additions, alterations, change of use or repairs. <i>Additions, alterations or repairs</i> to any <i>structure</i> shall conform to the requirements for a new structure without requiring the existing <i>structure</i> to comply with the requirements of this code, unless otherwise stated. <i>Additions, alterations, repairs</i> and relocations shall not cause an existing structure to become less compliant with the provisions of this code than the <i>existing building</i> or structure was prior to the <i>addition, alteration or repair</i>. <i>An existing building together with its additions shall comply with the height limits of this code, the provisions of International Existing Building Code shall apply. Where additions, alterations or changes of use to an existing structure result in a use, occupancy, height or means of egress outside the scope of this code, the building shall comply with the International Existing Building Code.</i>					
R103	Code Compliance Agency	Section R103 Renamed		NO	
Section R103 <i>Department of Building Safety Code Compliance Agency</i>					
R103.1	Code Compliance Agency			NO	
R103.1 Creation of enforcement agency. The <i>department of building safety</i> [INSERT NAME OF DEPARTMENT] is hereby created and the official in charge thereof shall be known as the <i>building official</i>. <i>The function of the agency shall be the implementation, administration and enforcement of the provisions of this code.</i>					
R104.2	Duties and Powers of the Building Official			NO	
R104.2 Determination of compliance. <i>The building official shall have the authority to render interpretations of this code and to adopt policies and procedures in order to clarify the application of this code's provisions. Such interpretations, policies and procedures:</i> 1. <i>Shall be in compliance with the intent and purpose of this code.</i>					

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2. Shall not have the effect of waiving requirements specifically provided for in this code.					
R104.2.1	Duties and Powers of the Building Official			NO	
R104.2.1 Listed compliance. Where this code or a referenced standard requires equipment, materials, products or services to be <i>listed</i> and a listing standard is specified, the listing shall be based on the specified standard. Where a listing standard is not specified, the listing shall be based on an <i>approved</i> listing criteria. Listings shall be germane to the provision requiring the listing. Installation shall be in accordance with the listing and the manufacturer's instructions, and where required to verify compliance, the listing standard and manufacturer's instructions shall be made available to the <i>building official</i> .					
R104.2.2.1	Duties and Powers of the Building Official			NO	
R104.2.2.1 Approval authority. An alternative material, design or method of construction shall be approved where the <i>building official</i> finds that the proposed alternative is satisfactory and complies with Sections R104.2.2 through R104.2.2.6.2, as applicable.					
R104.2.2.2	Duties and Powers of the Building Official			NO	
R104.2.2.2 Application and disposition. Where required, a request to use an alternative material, design or method of construction shall be submitted in writing to the <i>building official</i> for approval. Where the alternative material, design or method of construction is not <i>approved</i> , the <i>building official</i> shall respond in writing, stating the reasons the alternative was not approved.					
R104.2.2.3	Duties and Powers of the Building Official			NO	
R104.2.2.3 Compliance with code intent. An alternative material, design or method of construction shall comply with the intent of the provisions of this code.					
R104.2.2.4	Duties and Powers of the Building Official			NO	
R104.2.2.4 Equivalency criteria. An alternative material, design or method of construction shall, for the purpose intended, be not less than the equivalent of that prescribed in this code with respect to all the following, as applicable: 1. Quality. 2. Strength. 3. Effectiveness. 4. Durability. 5. Safety, other than fire safety. 6. Fire safety.					
R104.2.2.5	Duties and Powers of the Building Official			NO	
R104.2.2.5 Tests. Tests conducted to demonstrate equivalency in support of an alternative material, design or method of construction application shall be of a scale that is sufficient to predict performance of the end use configuration. Such tests shall be performed by a party acceptable to the <i>building official</i> .					

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R104.2.2.6	Duties and Powers of the Building Official			NO	
R104.2.2.6 Reports. Supporting documentation, where necessary to assist in the approval of materials or assemblies not specifically provided for in this code, shall comply with Sections R104.2.2.6.1 and R104.2.2.6.2.					
R1004.2.2.6.1	Duties and Powers of the Building Official			NO	
R104.2.2.6.1 Evaluation reports. Evaluation reports shall be issued by an <i>approved agency</i> and use of the evaluation report shall require approval by the <i>building official</i> for the installation. The alternate material, design or method of construction and product evaluated shall be within the scope of the <i>building official's</i> recognition of the <i>approved agency</i> . Criteria used for the evaluation shall be identified within the report and, where required, provided to the <i>building official</i>					
R104.2.2.6.2	Duties and Powers of the Building Official			NO	
R104.2.2.6.2 Other reports. Reports not complying with Section R104.2.2.6.1 shall describe criteria, including but not limited to any referenced testing or analysis, used to determine compliance with code intent and justify code equivalence. The report shall be prepared by a qualified engineer, specialist, laboratory or specialty organization acceptable to the building official. The <i>building official</i> is authorized to require design submittals to be prepared by, and bear the stamp of, a <i>registered design professional</i> .					
R104.4.1	Duties and Powers of the Building Official			NO	
R104.4.1 Warrant. Where the building code official has first obtained a proper inspection warrant or other remedy provided by law to secure entry, an <i>owner</i> , the <i>owner's</i> authorized agent, occupant or <i>person</i> having charge, care or control of the <i>structure</i> or premises shall not fail or neglect, after a proper request is made as herein provided, to permit entry therein by the building code official for the purposes of inspection and examination pursuant to this code.					
R104.7	Duties and Powers of the Building Official			NO	
R104.7 Official records. The <i>building official</i> shall keep official records as required in Sections R104.7.1 through R104.7.5. Such official records shall be retained for not less than 5 years or for as long as the building or structure to which such records relate remains in existence, unless otherwise provided by other regulations.					
R104.7.1	Duties and Powers of the Building Official			NO	
R104.7.1 Approvals. A record of approvals shall be maintained by the <i>building official</i> and shall be available for public inspection during business hours in accordance with applicable laws.					
R104.7.2	Duties and Powers of the Building Official			NO	
R104.7.2 Inspections. The building official shall make the required inspections, or the building official shall have the authority to accept reports of inspection by approved agencies					

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~~or individuals. Reports of such inspections shall be in writing and be certified by a responsible officer of such approved agency or by the responsible individual. The code official shall have the authority to conduct inspections, or shall accept reports of inspection by approved agencies or individuals. Reports of such inspections shall be in writing and be certified by a responsible officer of such approved agency or by the responsible individual. The building official is authorized to engage such expert opinion as deemed necessary to report on unusual technical issues that arise, subject to the approval of the appointing authority shall keep a record of each inspection made, including notices and orders issued, showing the findings and disposition of each.~~					
R104.7.3	Duties and Powers of the Building Official			NO	
R104.7.3 Code alternatives and modifications. Application for alternative materials, design and methods of construction and equipment in accordance with Section R104.2.2; modifications in accordance with Section R104.2.3; and documentation of the final decision of the <i>building official</i> for either shall be in writing and shall be retained in the official records.					
R104.7.4	Duties and Powers of the Building Official			NO	
R104.7.4 Tests. Tests. The <i>building official</i> shall keep a record of tests conducted to comply with Section R104.2.2.5.					
R104.7.5	Duties and Powers of the Building Official			NO	
R104.7.5 Fees. The <i>building official</i> shall keep a record of fees collected and refunded in accordance with Section R108.					
CHAPTER 2 DEFINITIONS					
R202	Definitions	Chapter 11 Not adopted.	No	NO	
[RB] ACCESS (TO). That which enables a device, an <i>appliance</i> or equipment to be reached by <i>ready access</i> or by a means that first requires the removal or movement of a panel, door or similar obstruction. <i>For the definition applicable in Chapter 11, see Section N1101.6. For the definition applicable in Chapter 24, see Section G2403.</i>					
R202	Definitions		No	NO	
[MP] AIR, EXHAUST. <i>For the definition applicable in Chapter 24, see Section G2403.</i>					
R202	Definitions		No	NO	
[MP] AIR, MAKEUP. Any combination of outdoor and transfer air intended to replace exhaust air and exfiltration. <i>For the definition applicable in Chapter 24, see Section G2403.</i>					
R202	Definitions		No	NO	
[MP] AIR, OUTDOOR. Ambient air that enters a building through a ventilation system, through intentional openings for natural ventilation or by infiltration.					
R202	Definitions		No	NO	
[MP] AIR, TRANSFER. Air moved from one indoor space to another.					
R202	Definitions		No	NO	
[MP] AIR CONDITIONER, GAS-FIRED. <i>For the definition applicable in Chapter 24, see Section G2403.</i>					
R202	Definitions		No	NO	
[MP] AIR CONDITIONING. <i>For the definition applicable in Chapter 24, see Section G2403.</i>					
R202	Definitions	Chapter 11 Not adopted.	No	NO	

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[MP] AIR-HANDLING UNIT. For the definition applicable in Chapter 24, see Section G2403. For the definition applicable in Chapter 11, see Section N1101.6.					
R202	Definitions		No	NO	
[MP] ANODELESS RISER. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	
[MP] APPLIANCE, AUTOMATICALLY CONTROLLED. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	
[MP] APPLIANCE, FAN-ASSISTED COMBUSTION. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	
[MP] APPLIANCE, UNVENTED. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	
[MP] APPLIANCE, VENTED. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	
[MP] ATMOSPHERIC PRESSURE. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	
[MP] AUTOMATIC IGNITION. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	
[RE] AUTOMATIC SHUTOFF CONTROL. For the definition applicable in Chapter 11, see Section N1101.6					
R202	Definitions		No	NO	
[MP] BALANCED VENTILATION SYSTEM. A ventilation system where the total supply airflow and total exhaust airflow are simultaneously within 10 percent of their averages. The balanced ventilation system airflow is the average of the supply and exhaust airflows. A ventilation system that simultaneously supplies outdoor air to and exhausts air from a space, where the mechanical supply airflow rate and the mechanical exhaust airflow rate are within 10 percent of the average of the two airflow rates. For the definition applicable in Chapter 11, see Section N1101.6.					
R202	Definitions		No	NO	
[MP] BAROMETRIC DRAFT REGULATOR. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	
[RE] BIODIESEL BLEND. For the definition applicable in Chapter 11, see Section N1101.6.					
R202	Definitions		No	NO	
[MP] BOILER, LOW-PRESSURE. For the definition applicable in Chapter 24, see Section G2403. Hot water heating boiler. For the definition applicable in Chapter 24, see Section G2403. Hot water supply boiler. For the definition applicable in Chapter 24, see Section G2403. Steam heating boiler. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	

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[MP] BONDING JUMPER. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	
[MP] BRAZING. For the definition applicable in Chapter 24, see Section G2403					
R202	Definitions		No	NO	
[MP] BTU. For the definition applicable in Chapter 24, see Section G2403					
R202	Definitions		No	NO	
[RB] BUILDING-INTEGRATED PHOTOVOLTAIC (BIPV) ROOF COVERING. A BIPV system that also functions as a roof covering. Coverings include, but are not limited to, shingles, tiles and roof panels.					
R202	Definitions		No	NO	
[RB] BUILDING-INTEGRATED PHOTOVOLTAIC PRODUCT (BIPV) SYSTEM. A building system that incorporates <i>photovoltaic modules</i> and functions as an integral part of the building envelope, such as <i>roof assemblies and roof coverings, exterior wall envelopes and exterior wall coverings, and fenestration.</i>					
R202	Definitions		No	NO	
[MP] BURNER. For the definition applicable in Chapter 24, see Section G2403. Induced-draft. For the definition applicable in Chapter 24, see Section G2403. Power. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions	Chapter 11 Not adopted.	No	NO	
[RE] CAVITY INSULATION. For the definition applicable in Chapter 11, see Section N1101.6.					
R202			No	NO	
[MP] CHIMNEY. A primary vertical structure containing one or more flues, for the purpose of carrying gaseous products of combustion and air from a fuel-burning <i>appliance</i> to the outside atmosphere. For the definition applicable in Chapter 24, see Section G2403. Factory-built chimney. For the definition applicable in Chapter 24, see Section G2403. Masonry chimney. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	
[MP] CLEARANCE. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	
[MP] CLOTHES DRYER. For the definition applicable in Chapter 24, see Section G2403. Type 1. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	
[MP] CODE. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	
[MP] CODE OFFICIAL. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	

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[MP] COMBUSTIBLE ASSEMBLY. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	
[RB] COMBUSTIBLE MATERIAL. Any material not defined as noncombustible. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	
[MP] COMBUSTION AIR. The air provided to fuel-burning equipment including air for fuel combustion, draft hood dilution and ventilation of the equipment enclosure. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	
[MP] COMBUSTION CHAMBER. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	
[MP] COMBUSTION PRODUCTS. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions	Chapter 11 Not adopted.	No	NO	
[RE] COMMON AREAS. For the definition applicable in Chapter 11, see Section N1101.6.					
R202	Definitions		No	NO	
[MP] CONCEALED LOCATION. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	
[MP] CONCEALED PIPING. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	
[MP] CONDENSATE. The liquid that separates from a gas due to a reduction in temperature; for example, water that condenses from flue gases and water that condenses from air circulating through the cooling coil in air conditioning equipment. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	
[MP] CONNECTOR, APPLIANCE (Fuel). For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	
[MP] CONNECTOR, CHIMNEY OR VENT. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions	Chapter 11 Not adopted.	No	NO	
[RB] CONSTRUCTION DOCUMENTS. Written, graphic and pictorial documents prepared or assembled for describing the design, location and physical characteristics of the elements of a project necessary for obtaining a building permit. Construction drawings shall be drawn to an appropriate scale. For the definition applicable in Chapter 11, see Section N1101.6.					
R202	Definitions	Chapter 11 Not adopted.	No	NO	
[RE] CONTINUOUS PILOT. For the definition applicable in Chapter 11, see Section N1101.6.					
R202	Definitions		No	NO	

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[MP] CONTROL. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	
[MP] CONVERSION BURNER. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	
[MP] COPPER ALLOY. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	
[MP] CUBIC FOOT. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions	Chapter 11 Not adopted.	No	NO	
[MP] DAMPER. For the definition applicable in Chapter 11, see Section N1101.6. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	
[MP] DECORATIVE APPLIANCE, VENTED. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	
[MP] DECORATIVE APPLIANCES FOR INSTALLATION IN VENTED FIREPLACES. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions	Word Glass changed to Glazing	No	NO	
[RB] ~~DECORATIVE GLASS GLAZING~~. A carved, leaded or Dalle glass or glazing material with a purpose that is decorative or artistic, not functional; with coloring, texture or other design qualities or components that cannot be removed without destroying the glazing material; and with a surface, or assembly into which it is incorporated, that is divided into segments.					
R202	Definitions		No	NO	
[MP] DEMAND. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions	Chapter 11 Not adopted.	No	NO	
[RE] DEMAND RESPONSE SIGNAL. For the definition applicable in Chapter 11, see Section N1101.6.					
R202	Definitions	Chapter 11 Not adopted.	No	NO	
[RE] DEMAND RESPONSIVE CONTROL. For the definition applicable in Chapter 11, see Section N1101.6.					
R202	Definitions		No	NO	
[MP] DESIGN FLOOD ELEVATION. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	
[MP] DILUTION AIR. Air that enters a draft hood or draft regulator and mixes with flue gases. For the definition applicable in Chapter 24, see Section G2403.					

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R202	Definitions	Chapter 11 Not adopted.	No	NO	
[RE] DIMMER. For the definition applicable in Chapter 11, see Section N1101.6.					
R202	Definitions		No	NO	
[MP] DIRECT-VENT APPLIANCE. A fuel-burning appliance with a sealed combustion system that draws all air for combustion from the outside atmosphere and discharges all flue gases to the outside atmosphere. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions	Chapter 11 Not adopted.	No	NO	
[RE] DISTRIBUTION SYSTEM EFFICIENCY (DSE). For the definition applicable in Chapter 11, see Section N1101.6.					
R202	Definitions		No	NO	
[MP] DRAFT. The pressure difference existing between the appliance or any component part and the atmosphere, that causes a continuous flow of air and products of combustion through the gas passages of the appliance to the atmosphere. For the definition applicable in Chapter 24, see Section G2403. Mechanical or induced draft. The pressure difference created by the action of a fan, blower or ejector, that is located between the appliance and the chimney or vent termination. For the definition applicable in Chapter 24, see Section G2403. Natural draft. The pressure difference created by a vent or chimney because of its height, and the temperature difference between the flue gases and the atmosphere. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	
[MP] DRAFT HOOD. A device built into an appliance, or a part of the vent connector from an appliance, that is designed to provide for the ready escape of the flue gases from the appliance in the event of no draft, backdraft or stoppage beyond the draft hood; prevent a backdraft from entering the appliance; and neutralize the effect of stack action of the chimney or gas vent on the operation of the appliance. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	
[MP] DRAFT REGULATOR. A device that functions to maintain a desired draft in the appliance by automatically reducing the draft to the desired value. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	
[MP] DRIP. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions	Chapter 11 Not adopted.	No	NO	
[RE] DUCT AIRFLOW BALANCING. For the definition applicable in Chapter 11, see Section N1101.6.					
R202	Definitions		No	NO	
[MP] DUCT FURNACE. For the definition applicable in Chapter 24, see Section G2403.					

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R202	Definitions	Chapter 11 Not adopted.	No	YES	
[RE] DUCTWORK. For the definition applicable in Chapter 11, see Section N1101.6.					
R202	Definitions	See Existing Amendment Report	No	YES: Incorporate New Language into existing Amendment	
[RB] DWELLING UNIT. A single unit providing complete independent living facilities for one or more persons, including permanent provisions for living, sleeping, eating, cooking and sanitation. For the definition applicable in Chapter 11, see Section N1101.6. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions	Chapter 11 Not adopted.	No	NO	
[RE] EMITTANCE. For the definition applicable in Chapter 11, see Section N1101.6.					
R202	Definitions	Chapter 11 Not adopted.	No	NO	
[RE] ENCLOSED REFLECTIVE AIR SPACE. For the definition applicable in Chapter 11, see Section N1101.6.					
R202	Definitions	Chapter 11 Not adopted.	No	NO	
[RE] ENERGY RATING INDEX (ERI). For the definition applicable in Chapter 11, see Section N1101.6.					
R202	Definitions		No	NO	
[MP] EQUIPMENT. Piping, ducts, vents, control devices and other components of systems other than appliances that are permanently installed and integrated to provide control of environmental conditions for buildings. This definition shall also include other systems specifically regulated in this code. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	
[MP] EXCESS FLOW VALVE (EFV). For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions	Chapter 11 Not adopted.	No	NO	
[RB] EXISTING BUILDING. Existing building is a building erected prior to the adoption of this code, or one for which a legal building permit has been issued. For the definition applicable in Chapter 11, see Section N1101.6.					
R202	Definitions		No	NO	
[MP] EXTERIOR MASONRY CHIMNEY. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	
[RB] EXTERIOR SOFFIT. A material or assembly of materials applied on the underside of exterior overhangs and attached carport and porch ceilings.					

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R202	Definitions		No	NO	
[RB] EXTERIOR WALL. An above-grade wall that defines the exterior boundaries of a building. Includes between-floor spandrels, peripheral edges of floors, roof and basement knee walls, dormer walls, gable end walls, gable end roof trusses , walls enclosing a mansard roof and basement walls with an average below-grade wall area that is less than 50 percent of the total opaque and nonopaque area of that enclosing side. For the definition applicable in Chapter 11, see Section N1101.6.					
R202	Definitions	Chapter 11 Not adopted.	No	NO	
[RE] F-FACTOR (THERMAL TRANSMITTANCE). For the definition applicable in Chapter 11, see Section N1101.6.					
R202	Definitions	See Existing Amendment Report. Adds new defined term "townhouse unit"	No	YES: Incorporate new language into existing amendment	
[RB] FIRE SEPARATION DISTANCE. The distance measured from the building face to one of the following: 1. To the closest interior lot line. 2. To the centerline of a street, an alley or public way. 3. To an imaginary line between two buildings or townhouse units on the lot. The distance shall be measured at a right angle from the face of the wall.					
R202	Definitions		No	NO	
[RB] FIREPLACE. An assembly consisting of a hearth and fire chamber of noncombustible material and provided with a chimney, for use with solid fuels. For the definition applicable in Chapter 24, see Section G2403. Factory-built fireplace. A listed and labeled fireplace and chimney system composed of factory-made components, and assembled in the field in accordance with manufacturer's instructions and the conditions of the listing. For the definition applicable in Chapter 24, see Section G2403. Masonry fireplace. A field-constructed fireplace composed of solid masonry units, bricks, stones or concrete. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	
[MP] FLAME SAFEGUARD. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	
[MP] FLASHBACK ARRESTOR CHECK VALVE. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	

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[MP] FLOOD HAZARD AREA. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	
[MP] FLOOR FURNACE. A self-contained furnace suspended from the floor of the space being heated, taking air for combustion from outside such space, and with means for lighting the appliance from such space. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	
[MP] FLUE, APPLIANCE. The passages within an appliance through which combustion products pass from the combustion chamber to the flue collar. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	
[MP] FLUE COLLAR. The portion of a fuel-burning appliance designed for the attachment of a draft hood, vent connector or venting system. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	
[MP] FLUE GASES. Products of combustion plus excess air in appliance flues or heat exchangers. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	
[MP] FLUE LINER (LINING). For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions	Chapter 11 Not adopted.	No	NO	
[MP] FUEL GAS. For the definition applicable in Chapter 11, see Section N1101.6. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions	Chapter 11 Not adopted.	No	NO	
[RE] FUEL OIL. For the definition applicable in Chapter 11, see Section N1101.6.					
R202	Definitions		No	NO	
[MP] FURNACE. A vented heating appliance designed or arranged to discharge heated air into a conditioned space or through a duct or ducts. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	
[MP] FURNACE, CENTRAL. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	
[MP] FURNACE PLENUM. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	
[MP] GAS CONVENIENCE OUTLET. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
[MP] GAS PIPING. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions	Chapter 11 Not adopted.	No	NO	
[RB] GRADE PLANE. A reference plane representing the average of the finished ground level adjoining the building a tall exterior walls. Where the finished ground level slopes away from the exterior walls, the reference plane shall be established by the lowest points within the area between the building and the lot line or, where the lot line is more than 6 feet (1829 mm) from the building between the structure and a point 6 feet (1829 mm) from the building. For the definition applicable in Chapter 11, see Section N1101.6.					
R202	Definitions		No	NO	
[RB] GYPSUM BOARD. ~~The generic name for a family of sheet products~~ A type of gypsum panel product consisting of a noncombustible core primarily of gypsum with paper surfacing. ~~Gypsum wallboard, gypsum sheathing, gypsum base for gypsum veneer plaster, exterior gypsum soffit board, predecorated gypsum board and water-resistant gypsum backing board complying with the standards listed in Section R702.3 and Part IX of this code are types of gypsum board.~~					
R202	Definitions	New language taken from 2021 definition of GYPSUM BOARD	No	NO	
[RB] GYPSUM PANEL PRODUCT. The general name for a family of sheet products consisting essentially of gypsum complying with the standards specified in Section R702.3 and Chapter 44 of this code.					
R202	Definitions		No	NO	
[MP] HAZARDOUS LOCATION. Any location considered to be a fire hazard for flammable vapors, dust, combustible fibers or other highly combustible substances. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions	Chapter 11 Not adopted.	No	NO	
[RE] HEAT EXCHANGER. For the definition applicable in Chapter 11, see Section N1101.6.					
R202	Definitions		No	NO	
[MP] HEAT PUMP. ~~An appliance having heating or heating and cooling capability and that uses refrigerants to extract heat from air, liquid or other sources. A refrigeration system or factory-made appliance that utilizes refrigerant to transfer heat into a space or substance.~~					
R202	Definitions		No	NO	
[MP] IGNITION PILOT. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	
[MP] IGNITION SOURCE. A flame, spark or hot surface capable of igniting flammable vapors or fumes. Such sources include appliance					

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
burners, burner ignitors and electrical switching devices. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions	Definition expanded to include #2	No	NO	
[RB] IMPACT PROTECTIVE SYSTEM. Impact protective systems are defined as follows: 1. Construction that has been shown by testing to withstand the impact of test missiles and that is applied, attached or locked over exterior glazing. 2. For storm shelters, an assembly or device, subject to static or cyclic pressure and impact testing as detailed in ICC 500, installed to protect an opening in the storm shelter envelope.					
R202	Definitions		No	NO	
[MP] INFRARED RADIANT HEATER. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions	Chapter 11 Not adopted.	No	NO	
[RE] INTERMITTENT IGNITION. For the definition applicable in Chapter 11, see Section N1101.6.					
R202	Definitions	Chapter 11 Not adopted.	No	NO	
[RE] INTERRUPTED IGNITION. For the definition applicable in Chapter 11, see Section N1101.6.					
R202	Definitions		No	NO	
[MP] JOINT, FLARED. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	
[MP] JOINT, MECHANICAL. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	
[MP] JOINT, PLASTIC ADHESIVE. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions	Chapter 11 Not adopted.	No	NO	
[RE] KNEE WALL. For the definition applicable in Chapter 11, see Section N1101.6.					
R202	Definitions		No	NO	
[RB] LABELED. Equipment, materials or products to which have been affixed a label, seal, symbol or other identifying mark of a nationally recognized testing laboratory, approved agency or other organization concerned with product evaluation that maintains periodic inspection of the production of such labeled items and whose labeling indicates either that the equipment, material or product meets identified standards or has been tested and found suitable for a specified purpose. For the definition applicable in Chapter 11, see Section N1101.6. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
[MP] LEAK CHECK. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	
[MP] LIQUEFIED PETROLEUM GAS OR LPG (LP-GAS). For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions	Chapter 11 Not adopted.	No	NO	
[RE] LIQUID FUEL. For the definition applicable in Chapter 11, see Section N1101.6.					
R202	Definitions		No	NO	
[RB] LISTED. Equipment, materials, products or services included in a list published by an organization acceptable to the code official and concerned with evaluation of products or services that maintains periodic inspection of production of listed equipment or materials or periodic evaluation of services and whose listing states either that the equipment, material, product or service meets identified standards or has been tested and found suitable for a specified purpose. Terms that are used to identify listed equipment, products or materials include "listed," "certified," "classified" or other terms as determined appropriate by the listing organization. For the definition applicable in Chapter 11, see Section N1101.6. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions	Chapter 11 Not adopted.	No	NO	
[MP] LIVING SPACE. Space within a dwelling unit utilized for living, sleeping, eating, cooking, bathing, washing and sanitation purposes. For the definition applicable in Chapter 11, see Section N1101.6. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	
[MP] LOG LIGHTER. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions	Chapter 11 Not adopted.	No	NO	
[RE] LOW SLOPE. For the definition applicable in Chapter 11, see Section N1101.6.					
R202	Definitions		No	NO	
[MP] MAIN BURNER. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	
[MP] METER. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	
[MP] MODULATING. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	
[RB] NONCOMBUSTIBLE MATERIAL. A material that passes ASTM E136. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions	Chapter 11 Not adopted.	No	NO	

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
[RE] OCCUPANT SENSOR CONTROL. For the definition applicable in Chapter 11, see Section N1101.6.					
R202	Definitions	Chapter 11 Not adopted.	No	NO	
[RE] OCCUPIABLE SPACE. For the definition applicable in Chapter 11, see Section N1101.6.					
R202	Definitions		No	NO	
[MP] OFFSET (VENT). For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions	Chapter 11 Not adopted.	No	NO	
[RE] ON-DEMAND PILOT. For the definition applicable in Chapter 11, see Section N1101.6.					
R202	Definitions	Chapter 11 Not adopted.	No	NO	
[RE] ON-SITE RENEWABLE ENERGY. For the definition applicable in Chapter 11, see Section N1101.6.					
R202	Definitions		No	NO	
[MP] OUTLET. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	
[MP] OXYGEN DEPLETION SAFETY SHUTOFF SYSTEM (ODS). For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	
[RB] PAN FLASHING. Corrosion-resistant flashing at the base of an opening that is integrated into the building exterior wall to direct water to the water-resistive barrier surface or to the exterior and is premanufactured, fabricated, formed or applied at the job site.					
R202	Definitions	Adds “(PV)” to title	No	NO	
[RB] PHOTOVOLTAIC (PV) MODULE . A complete, environmentally protected unit consisting of solar cells, optics and other components, exclusive of a tracker, designed to generate DC power where exposed to sunlight.					
R202	Definitions	Adds “(PV)” to title	No	NO	
[RB] PHOTOVOLTAIC (PV) PANEL . A collection of photovoltaic modules mechanically fastened together, wired, and designed to provide afield-installable unit.					
R202	Definitions	Adds “(PV)” to title	No	NO	
[RB] PHOTOVOLTAIC (PV) PANEL SYSTEM . A system that incorporates discrete photovoltaic panels that convert solar radiation into electricity, including rack support systems.					
R202	Definitions	New Definition	No	NO	
[RB] PHOTOVOLTAIC (PV) PANEL SYSTEM, GROUND-MOUNTED. An independent photovoltaic (PV) panel system without usable space underneath, installed directly on the ground.					
R202	Definitions	New Definition	No	NO	

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
[RB] PHOTOVOLTAIC (PV) SUPPORT STRUCTURE, ELEVATED. An independent photovoltaic (PV) panel support structure designed with usable space underneath with a clear height of not less than 7 feet 6 inches (2286 mm), intended for secondary use such as providing shade or parking of motor vehicles.					
R202	Definitions		No	NO	
[MP] PILOT. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	
[MP] PIPING. For the definition applicable in Chapter 24, see Section G2403. PIPE. For the definition applicable in Chapter 24, see Section G2403. TUBING. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	
[MP] PIPING SYSTEM. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	
[MP] PLASTIC, THERMOPLASTIC. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions	Chapter 11 Not adopted.		NO	
[MP] PLENUM. A chamber that forms part of an air-circulation system other than the occupied space being conditioned. For the definition applicable in Chapter 11, see Section N1101.6.					
R202	Definitions		No	NO	
[MP] POINT OF DELIVERY. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	
[MP] PRESS-CONNECT JOINT. A permanent mechanical joint incorporating an elastomeric seal or an elastomeric seal and corrosion-resistant grip or bite ring. The joint is made with a pressing tool and jaw or ring approved by the fitting manufacturer. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	
[MP] PRESSURE DROP. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	
[MP] PRESSURE TEST. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	
[MP] PURGE. To clear of air, gas or other foreign substances. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions	Chapter 11 Not adopted.	No	NO	
[RE] RADIANT BARRIER. For the definition applicable in Chapter 11, see Section N1101.6.					

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
R202	Definitions	New Definition	No	NO	
[RB] RAINSCREEN SYSTEM. An assembly applied to the exterior side of an exterior wall which consists of, at minimum, an outer layer, an inner layer and a cavity between them sufficient for the passive removal of liquid water and water vapor.					
R202	Definitions	Chapter 11 Not adopted.	No	NO	
[RB] READY ACCESS (TO). That which enables a device, appliance or equipment to be directly reached, without requiring the removal or movement of any panel, door or similar obstruction. For the definition applicable in Chapter 11, see Section N1101.6. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions	Chapter 11 Not adopted.	No	NO	
[RE] REFLECTIVE INSULATION. For the definition applicable in Chapter 11, see Section N1101.6.					
R202	Definitions		No	NO	
[MP] REFRIGERANT. ~~A substance used to produce refrigeration by its expansion or evaporation.~~ The fluid used for heat transfer in a refrigeration system that undergoes a change of state to absorb heat.					
R202	Definitions	Replaces term "REFRIGERATING SYSTEM"	No	NO	
[MP] REFRIGERATION SYSTEM. A combination of interconnected parts ~~forming a closed circuit~~ in which refrigerant is enclosed and circulated for the purpose of extracting, then rejecting, heat. ~~A direct refrigerating system is one in which the evaporator or condenser of the refrigerating system is in direct contact with the air or other substances to be cooled or heated. An indirect refrigerating system is one in which a secondary coolant cooled or heated by the refrigerating system is circulated to the air or other substance to be cooled or heated.~~					
R202	Definitions		No	NO	
[MP] REGULATOR. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	
[MP] REGULATOR, GAS APPLIANCE. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	
[MP] REGULATOR, LINE GAS PRESSURE. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
[MP] REGULATOR, MEDIUM-PRESSURE (MP REGULATOR). For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	
[MP] REGULATOR, MONITORING. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	
[MP] REGULATOR, PRESSURE. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	
[MP] REGULATOR, SERVICE PRESSURE. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	
[MP] RELIEF OPENING. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	
[MP] RELIEF VALVE (DEVICE). For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	
[MP] RELIEF VALVE, PRESSURE. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	
[MP] RELIEF VALVE, TEMPERATURE. For the definition applicable in Chapter 24, see Section G2403. MANUAL REST TYPE. For the definition applicable in Chapter 24, see Section G2403. RESEATING OR SELF-CLOSING TYPE. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	
[MP] RELIEF VALVE, VACUUM. A device to prevent excessive buildup of vacuum in a pressure vessel. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions	Chapter 11 Not adopted.	No	NO	
[RE] RENEWABLE ENERGY CERTIFICATE (REC). For the definition applicable in Chapter 11, see Section N1101.6.					
R202	Definitions	Chapter 11 Not adopted.	No	NO	
[RE] RENEWABLE ENERGY RESOURCES. For the definition applicable in Chapter 11, see Section N1101.6.					
R202	Definitions	New Definition	No	NO	
[RB] RESPONSIVE VAPOR RETARDER. A vapor retarder material complying with a vapor retarder class of Class I or Class II but which also has a vapor permeance of 1 perm or greater in accordance with ASTM E96, water method (Procedure B).					
R202	Definitions		No	NO	

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
[MP] RISER, GAS. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	
[MP] ROOM HEATER, UNVENTED. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	
[MP] ROOM HEATER, VENTED. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	
[MP] SERVICE METER ASSEMBLY. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	
[MP] SHAFT. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions	Chapter 11 Not adopted.	No	NO	
[RE] SIMULATED BUILDING PERFORMANCE. For the definition applicable in Chapter 11, see Section N1101.6.					
R202	Definitions	Chapter 11 Not adopted.	No	NO	
[RE] SKYLIGHT. For the definition applicable in Chapter 11, see Section N1101.6 under "Fenestration."					
R202	Definitions	New Definition	No	YES	TAG Proposal 24-GP2-046
[RB] SLEEPING LOFT. A space designated for sleeping on an intermediate level or levels between the floor and ceiling of a story, open on one or more sides to the room in which the space is located, and in accordance with Section R315.					
R202	Definitions	Chapter 11 Not adopted.	No	NO	
[RB] SLEEPING UNIT. A single unit that provides rooms or spaces for one or more persons, includes permanent provisions for sleeping and can include provisions for living, eating and either sanitation or kitchen facilities but not both. Such rooms and spaces that are also part of a dwelling unit are not sleeping units. For the definition applicable in Chapter 11, see Section N1101.6.					
R202	Definitions		No	NO	
[RB] SOLAR ENERGY SYSTEM. A system that converts solar radiation to usable energy, including photovoltaic panel systems, BIPV systems and solar thermal systems.					
R202	Definitions	Chapter 11 Not adopted.	No	NO	
[RE] SOLAR-READY ZONE. For the definition applicable in Chapter 11, see Section N1101.6.					
R202	Definitions	Chapter 11 Not adopted.	No	NO	
[RE] SPACE CONDITIONING. For the definition applicable in Chapter 11, see Section N1101.6.					
R202	Definitions	Chapter 11 Not adopted.	No	NO	

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
[RE] SPACE CONDITIONING EQUIPMENT. For the definition applicable in Chapter 11, see Section N1101.6.					
R202	Definitions		No	NO	
[MP] SPECIFIC GRAVITY. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions	Chapter 11 Not adopted.	No	NO	
[RE] STEEP SLOPE. For the definition applicable in Chapter 11, see Section N1101.6.					
R202	Definitions	New Definition	No	NO	
[RB] SUBSTANTIAL DAMAGE. Damage of any origin sustained by a structure whereby the cost of restoring the structure to its before-damaged condition would equal or exceed 50 percent of the market value of the structure before the damage occurred.					
R202	Definitions	New Definition. Chapter 11 Not adopted.	No	NO	

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
[RB] SUBSTANTIAL IMPROVEMENT. Any repair, reconstruction, rehabilitation, alteration, addition or other improvement of a building or structure, the cost of which equals or exceeds 50 percent of the market value of the structure before the improvement or repair is started. If the structure has sustained substantial damage, any repairs are considered substantial improvement regardless of the actual repair work performed. The term does not, however, include either: 1. Any project for improvement of a building required to correct existing health, sanitary or safety code violations identified by the building official and that are the minimum necessary to assure safe living conditions. 2. Any alteration of a historic structure provided that the alteration will not preclude the structure's continued designation as a historic structure. For the purposes of this exclusion, a historic building shall be any of the following: 2.1. Listed or preliminarily determined to be eligible for listing in the National Register of Historic Places. 2.2. Determined by the Secretary of the US Department of Interior as contributing to the historical significance of a registered historic district or a district preliminarily determined to qualify as a historic district. 2.3. Designated as historic under a state or local historic preservation program that is approved by the Department of Interior. For the definition applicable in Chapter 11, see Section N1101.6.					
R202	Definitions		No	NO	
[MP] SYSTEM SHUTOFF. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions	Chapter 11 Not adopted.	No	NO	
[RE] TESTING UNIT ENCLOSURE AREA. For the definition applicable in Chapter 11, see Section N1101.6.					
R202	Definitions	Chapter 11 Not adopted.	No	NO	
[RE] THERMAL DISTRIBUTION EFFICIENCY (TDE). For the definition applicable in Chapter 11, see Section N1101.6.					
R202	Definitions	Chapter 11 Not adopted.	No	NO	
[RE] THERMOSTAT. For the definition applicable in Chapter 11, see Section N1101.6. For the definition applicable in Chapter 24, see Section G2403. ELECTRIC SWITCH TYPE. For the definition applicable in Chapter 24, see Section G2403. INTEGRAL GAS VALVE TYPE. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
[MP] THIRD-PARTY CERTIFICATION AGENCY. An approved agency operating a product or material certification system that incorporates initial product testing, assessment and surveillance of a manufacturer's quality control system. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	
[MP] THIRD-PARTY CERTIFIED. Certification obtained by the manufacturer indicating that the function and performance characteristics of a product or material have been determined by testing and ongoing surveillance by an approved third-party certification agency. Assertion of certification is in the form of identification in accordance with the requirements of the third-party certification agency. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	
[MP] THIRD-PARTY TESTED. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	
[MP] TOILET, GAS FIRED. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	
[MP] TRANSITION FITTINGS, PLASTIC TO STEEL. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions	New Definition	No	NO	
[RB] TYPE X. A type of gypsum panel product with special core additives to increase the fire resistance as specified by the applicable standards listed in Section R702.3 (see the definition of "Gypsum panel product").					
R202	Definitions		No	NO	
[MP] UNIT HEATER. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	
[MP] UNVENTED ROOM HEATER. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
[MP] VALVE. For the definition applicable in Chapter 24, see Section G2403. APPLIANCE SHUTOFF. For the definition applicable in Chapter 24, see Section G2403. AUTOMATIC. For the definition applicable in Chapter 24, see Section G2403. AUTOMATIC GAS SHUTOFF. For the definition applicable in Chapter 24, see Section G2403. INDIVIDUAL MAIN BURNER. For the definition applicable in Chapter 24, see Section G2403. MAIN BURNER CONTROL. For the definition applicable in Chapter 24, see Section G2403. MANUAL MAIN GAS-CONTROL. For the definition applicable in Chapter 24, see Section G2403. MANUAL RESET. For the definition applicable in Chapter 24, see Section G2403. SERVICE SHUTOFF. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	
[MP] VENT. A passageway for conveying flue gases from fuel-fired appliances, or their vent connectors, to the outside atmosphere. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	
[MP] VENT CONNECTOR. That portion of a venting system that connects the flue collar or draft hood of an appliance to a vent. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	
[MP] VENT PIPING. For the definition applicable in Chapter 24, see Section G2403. BREATHING. For the definition applicable in Chapter 24, see Section G2403. RELIEF. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	
[MP] VENTED APPLIANCE CATEGORIES. For the definition applicable in Chapter 24, see Section G2403. CATEGORY I. For the definition applicable in Chapter 24, see Section G2403. CATEGORY II. For the definition applicable in Chapter 24, see Section G2403. CATEGORY III. For the definition applicable in Chapter 24, see Section G2403. CATEGORY IV. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	
[MP] VENTED ROOM HEATER. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	
[MP] VENTED WALL FURNACE. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
[MP] VENTING SYSTEM. A continuous open passageway from the flue collar of an appliance to the outside atmosphere for the purpose of removing flue or vent gases. A venting system is usually composed of a vent or a chimney and vent connector, if used, assembled to form the open passageway. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	
[MP] WALL HEATER, UNVENTED TYPE. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	
[MP] WATER HEATER. Any heating appliance or equipment that heats potable water and supplies such water to the potable hot water distribution system. For the definition applicable in Chapter 24, see Section G2403.					
R202	Definitions		No	NO	
[RB] WINDBORNE DEBRIS REGION. Areas within hurricane-prone regions located in accordance with one of the following: 1. Within 1 mile (1.61 km) of the mean high-water line where an Exposure D condition exists upwind at the water line and the ultimate design wind speed, V_{ult} , is 130 mph (58 m/s) or greater. 2. In areas where the ultimate design wind speed, V_{ult} , is 140 mph (63 m/s) or greater; or Hawaii.					
R202	Definitions	Chapter 11 Not adopted.	No	NO	
[RE] WORK AREA. For the definition applicable in Chapter 11, see Section N1101.6.					
CHAPTER 3 BUILDING PLANNING					
T R301.2 footnote d	Design Criteria		No	NO	
d. The jurisdiction shall fill in this part of the table with the wind speed from the basic wind speed ultimate design wind speeds map [Figure R301.2(2)]. Wind exposure category shall be determined on a site-specific basis in accordance with Section R301.2.1.4.					
T R301.2 footnote o	Design Criteria	ICC Approved for correlation reasons with ASCE 7-22	Increase See ICC RB 34-22	NO	
o. The jurisdiction shall fill in this section of the ground snow loads allowable stress design table using the Ground Snow Loads in Figure R301.2(3).					
F R301.2(2)	Design Criteria	ICC Approved for correlation reasons with ASCE 7-22	Increase See ICC RB 35-22	No	

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
FIGURE R301.2(2) ULTIMATE DESIGN WIND SPEEDS Notes: 1. Values are 3-second gust wind speeds in miles per hour (m/s) at 33 feet (10 m) above ground for Exposure Category C. 2. Linear interpolation is permitted between contours. Point values are provided to aid with interpolation. 3. Islands, coastal areas and land boundaries outside the last contour shall use the last wind speed contour. 4. Location-specific basic wind speeds shall be permitted to be determined using the ASCE Wind Design Geodatabase. 5. Wind speeds for Hawaii, US Virgin Islands and Puerto Rico shall be determined from the ASCE Wind Design Geodatabase. 6. Mountainous terrain, gorges, ocean promontories and special wind regions shall be examined for unusual wind conditions. Site specific values for selected special wind regions shall be permitted to be determined using the ASCE Wind Design Geodatabase. 7. Wind speeds correspond to approximately a 7-percent probability of exceedance in 50 years (Annual Exceedance Probability = 0.00143, MRI = 700 years). 8. The ASCE Wind Design Geodatabase can be accessed at the ASCE 7_Hazard Tool (https://asce7hazardtool.online) or approved equivalent.					
F R301.2(3)	Design Criteria	ICC Approved for correlation reasons with ASCE 7-22	Increase See ICC RB 35-22	No	
FIGURE R301.2(3) ALLOWABLE STRESS DESIGN GROUND SNOW LOADS, Pg (<i>asd</i>), FOR THE UNITED STATES (lb/ft2) For SI: 1 foot = 34.8 mm, 1 pound per square foot = 0.0479 kPa, 1 mile = 1.61 km. Notes: 1. Location-specific ground snow load values are provided in the Ground Snow Load Geodatabase of geocoded design ground snow load values, which can be accessed at the ASCE 7_Hazard Tool at https://asce7hazardtool.online/ or an approved equivalent. 2. Lines shown on the figure are contours separated by a constant ratio 1.18 with values of 10, 12, 14, 16, 19, 23, 27, 32, 38, 44, 52, 62, 73, 86, 101, 119 and 140 psf. 3. Values denoted with a "+" symbol indicate design ground snow loads at state capitals or other high-population locations. 4. Areas shown in gray represent areas with ground snow loads exceeding 140 psf. Ground snow load values for these locations can be determined from the Geodatabase.					
T R301.2.1(1)	Design Criteria	ICC Approved for correlation reasons with ASCE 7-22	Increase See ICC RB 35-22	No	

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
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2024 International Residential Code (IRC)

CHAPTER 3 BUILDING PLANNING

TABLE R301.2.1(1)

COMPONENT AND CLADDING LOADS FOR A BUILDING WITH A MEAN ROOF HEIGHT OF 30 FEET LOCATED IN EXPOSURE B (ASD) (psf) a, b, c, d, e, f, g

	ZO NE	EFFECTIVE WIND AREAS (square feet)	ULTIMATE DESIGN WIND SPEED, V_{ult}																											
			90.0		95.0		100.0		105.0		110.0		115.0		120.0		130.0		140.0		150.0		160.0		170.0		180.0			
			P os	Ne g	P os	Ne g	P os	Ne g	P os	Ne g	P os	Ne g	P os	Ne g	P os	Ne g	P os	Ne g	P os	Ne g	P os	Ne g	P os	Ne g	P os	Ne g	P os	Ne g		
Gable roof 0 to 7 degrees	1, 1'	10	3.6	-13.9	4.0	-15.5	4.4	-17.2	4.8	-19.0	5.3	-20.8	5.8	-22.7	6.3	-24.8	7.4	-29.1	8.6	-33.7	9.9	-38.7	11.2	-44.0	12.7	-49.7	14.2	-55.7		
	1, 1'	20	3.3	-12.4	3.7	-13.8	4.1	-15.3	4.5	-16.8	5.0	-18.5	5.4	-20.2	5.9	-22.0	7.0	-25.8	8.1	-29.9	9.3	-34.4	10.5	-39.1	11.9	-44.1	13.3	-49.5		
	1, 1'	50	3.0	-10.3	3.4	-11.5	3.8	-12.7	4.1	-14.0	4.5	-15.4	5.0	-16.8	5.4	-18.3	6.3	-21.5	7.4	-24.9	8.4	-28.6	9.6	-32.5	10.8	-36.7	12.2	-41.2		
	1, 1'	100	2.8	-8.7	3.1	-9.7	3.5	-10.8	3.8	-11.9	4.2	-13.1	4.6	-14.3	5.0	-15.5	5.9	-18.2	6.8	-21.2	7.8	-24.3	8.9	-27.6	10.0	-31.2	11.3	-35.0		
	2	10	3.6	-18.4	4.0	-20.5	4.4	-22.7	4.8	-25.0	5.3	-27.4	5.8	-30.0	6.3	-32.7	7.4	-38.3	8.6	-44.5	9.9	-51.0	11.2	-58.1	12.7	-65.6	14.2	-73.5		
	2	20	3.3	-16.4	3.7	-18.2	4.1	-20.2	4.5	-22.3	5.0	-24.5	5.4	-26.7	5.9	-29.1	7.0	-34.2	8.1	-39.6	9.3	-45.5	10.5	-51.8	11.9	-58.4	13.3	-65.5		
	2	50	3.0	-13.7	3.4	-15.3	3.8	-16.9	4.1	-18.7	4.5	-20.5	5.0	-22.4	5.4	-24.4	6.3	-28.6	7.4	-33.2	8.4	-38.1	9.6	-43.3	10.8	-48.9	12.2	-54.8		
	2	100	2.8	-11.7	3.1	-13.0	3.5	-14.5	3.8	-15.9	4.2	-17.5	4.6	-19.1	5.0	-20.8	5.9	-24.4	6.8	-28.3	7.8	-32.5	8.9	-37.0	10.0	-41.8	11.3	-46.8		
	3	10	3.6	-25.0	4.0	-27.9	4.4	-30.9	4.8	-34.1	5.3	-37.4	5.8	-40.9	6.3	-44.5	7.4	-52.2	8.6	-60.6	9.9	-69.6	11.2	-79.1	12.7	-89.4	14.2	-100.2		
	3	20	3.3	-21.0	3.7	-23.4	4.1	-26.0	4.5	-28.6	5.0	-31.4	5.4	-34.4	5.9	-37.4	7.0	-43.9	8.1	-50.9	9.3	-58.4	10.5	-66.5	11.9	-75.1	13.3	-84.2		
	3	50	3.0	-15.7	3.4	-17.5	3.8	-19.4	4.1	-21.4	4.5	-23.5	5.0	-25.6	5.4	-27.9	6.3	-32.8	7.4	-38.0	8.4	-43.6	9.6	-49.6	10.8	-56.0	12.2	-62.8		
	3	100	2.8	-11.7	3.1	-13.0	3.5	-14.5	3.8	-15.9	4.2	-17.5	4.6	-19.1	5.0	-20.8	5.9	-24.4	6.8	-28.3	7.8	-32.5	8.9	-37.0	10.0	-41.8	11.3	-46.8		

2024 Code Section			TITLE OR SUBJECT												Reviewer Comments												Cost Yes/No			Amendment Needed Yes/No		TAG Comments/ Recommendation	
Gable roof > 7 to 20 degrees	1	10	5.8	-16.2	6.4	-18.0	7.1	-19.9	7.9	-22.0	8.6	-24.1	9.4	-26.4	10.3	-28.7	12.1	-33.7	14.0	39.1	16.1	44.9	18.3	-51.0	20.6	-57.6	23.1	-64.6					
	1	20	5.3	-13.9	5.9	-15.5	6.5	-17.1	7.2	-18.9	7.9	-20.7	8.6	-22.7	9.4	-24.7	11	-29.0	12.7	-33.6	14.6	-38.6	16.6	-43.9	18.8	-49.5	21.1	-55.5					
	1	50	4.6	-10.9	5.1	-12.1	5.7	-13.4	6.2	-14.8	6.8	-16.3	7.5	-17.8	8.2	-19.4	9.6	-22.7	11.1	-26.4	12.7	-30.3	14.5	-34.4	16.4	-38.9	18.3	-43.6					
	1	100	4.1	-8.6	4.5	-9.6	5.0	-10.7	5.5	-11.7	6.1	-12.9	6.6	-14.1	7.2	-15.3	8.5	-18.0	9.8	-20.9	11.3	-24.0	12.9	-27.3	14.5	-30.8	16.3	-34.5					
	2	10	5.8	-21.3	6.4	-23.8	7.1	-26.3	7.9	-29.0	8.6	-31.9	9.4	-34.8	10.3	-37.9	12.1	-44.5	14.0	51.6	16.1	59.3	18.3	-67.4	20.6	-76.1	23.1	-85.4					
	2	20	5.3	-18.4	5.9	-20.5	6.5	-22.7	7.2	-25.1	7.9	-27.5	8.6	-30.1	9.4	-32.8	11.0	-38.4	12.7	-44.6	14.6	-51.2	16.6	-58.2	18.8	-65.7	21.1	-73.7					
	2	50	4.6	-14.6	5.1	-16.2	5.7	-18.0	6.2	-19.8	6.8	-21.8	7.5	-23.8	8.2	-25.9	9.6	-30.4	11.1	-35.3	12.7	-40.5	14.5	-46.1	16.4	-52.0	18.3	-58.3					
	2	100	4.1	-11.7	4.5	-13.0	5.0	-14.4	5.5	-15.9	6.1	-17.4	6.6	-19.0	7.2	-20.7	8.5	-24.3	9.8	-28.2	11.3	-32.4	12.9	-36.8	14.5	-41.6	16.3	-46.6					
	3	10	5.8	-28.0	6.4	-31.2	7.1	-34.6	7.9	-38.1	8.6	-41.8	9.4	-45.7	10.3	-49.8	12.1	-58.4	14.0	-67.8	16.1	-77.8	18.3	-88.5	20.6	-99.9	23.1	-112.0					
	3	20	5.3	-24.0	5.9	-26.7	6.5	-29.6	7.2	-32.7	7.9	-35.8	8.6	-39.2	9.4	-42.7	11.1	-50.1	12.7	-58.1	14.6	-66.6	16.6	-75.8	18.8	-85.6	21.1	-96.0					
	3	50	4.6	-18.7	5.1	-20.8	5.7	-23.1	6.2	-25.4	6.8	-27.9	7.5	-30.5	8.2	-33.2	9.6	-39.0	11.1	-45.2	12.7	-51.9	14.5	-59.1	16.4	-66.7	18.3	-74.7					
	3	100	4.1	-14.7	4.5	-16.3	5.0	-18.1	5.5	-20.0	6.1	-21.9	6.6	-24.0	7.2	-26.1	8.5	-30.6	9.8	-35.5	11.3	-40.8	12.9	-46.4	14.5	-52.3	16.3	-58.7					
	1	10	5.8	-12.4	6.4	-13.9	7.1	-15.4	7.9	-16.9	8.6	-18.6	9.4	-20.3	10.3	-22.1	12.1	-26.0	14.0	30.1	16.1	34.6	18.3	-39.3	20.6	-44.4	23.1	-49.8					

2024 Code Section		TITLE OR SUBJECT												Reviewer Comments												Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
Gable roof > 20 to 27 degrees	1	20	5. 3	- 11. 2	5. 9	- 12. 5	6. 5	- 13. 9	7. 2	- 15. 3	7. 9	- 16. 8	8. 6	- 18. 4	9.4	- 20. 0	11. 0	- 23. 5	12. 7	- 27. 2	14. 6	- 31. 2	16. 6	- 35. 5	18. 8	- 40. 1	21. 1	- 45. 0
	1	50	4. 6	- 9. 7	5. 1	- 10. 8	5. 7	- 11. 9	6. 2	- 13. 1	6. 8	- 14. 4	7. 5	- 15. 8	8.2	- 17. 2	9.6	- 20. 2	11. 1	- 23. 4	12. 7	- 26. 8	14. 5	- 30. 5	16. 4	- 34. 5	18. 3	- 38. 6
	1	100	4. 1	- 8. 5	4. 5	- 9. 4	5. 0	- 10. 4	5. 5	- 11. 5	6. 1	- 12. 6	6. 6	- 13. 8	7.2	- 15. 0	8.5	- 17. 7	9. 8	- 20. 3	11. 5	- 23. 5	12. 9	- 26. 7	14. 5	- 30. 2	16. 3	- 33. 8
	2	10	5. 8	- 19. 9	4. 4	- 22. 1	7. 1	- 24. 5	7. 9	- 27. 0	8. 6	- 29. 7	9. 4	- 32. 4	10. 3	- 35. 3	12. 1	- 41. 4	14. 0	- 48. 0	16. 1	- 55. 2	18. 3	- 62. 8	20. 6	- 70. 8	23. 1	- 79. 4
	2	20	5. 3	- 17. 0	5. 9	- 18. 9	6. 5	- 20. 9	7. 2	- 23. 1	7. 9	- 25. 3	8. 6	- 27. 7	9.4	- 30. 1	11. 0	- 35. 4	12. 7	- 41. 0	14. 6	- 47. 1	16. 6	- 53. 6	18. 8	- 60. 5	21. 1	- 67. 8
	2	50	4. 6	- 13. 1	5. 1	- 14. 6	5. 7	- 16. 2	6. 2	- 17. 9	6. 8	- 19. 6	7. 5	- 21. 4	8.2	- 23. 3	9.6	- 27. 4	11. 1	- 31. 8	12. 7	- 36. 5	14. 5	- 41. 5	16. 4	- 46. 8	18. 3	- 52. 5
	2	100	4. 1	- 10. 2	4. 5	- 11. 4	5. 0	- 12. 6	5. 5	- 13. 9	6. 1	- 15. 3	6. 6	- 16. 7	7.2	- 18. 2	8.5	- 21. 3	9. 8	- 24. 7	11. 3	- 28. 4	12. 9	- 32. 3	14. 5	- 36. 5	16. 3	- 40. 9
	3	10	5. 8	- 23. 6	6. 4	- 26. 3	7. 1	- 29. 1	7. 9	- 32. 1	8. 6	- 35. 2	9. 4	- 38. 5	10. 3	- 41. 9	12. 1	- 49. 2	14. 0	- 57. 0	16. 1	- 65. 4	18. 3	- 74. 5	20. 6	- 84. 1	23. 1	- 94. 2
	3	20	5. 3	- 20. 0	5. 9	- 22. 3	6. 5	- 24. 7	7. 2	- 27. 2	7. 9	- 29. 9	8. 6	- 32. 6	9.4	- 35. 5	11. 0	- 41. 7	12. 7	- 48. 4	14. 6	- 55. 5	16. 6	- 63. 2	18. 8	- 71. 3	21. 1	- 80. 0
	3	50	4. 6	- 15. 3	5. 1	- 17. 0	5. 7	- 18. 9	6. 2	- 20. 8	6. 8	- 22. 8	7. 5	- 24. 9	8.2	- 27. 2	9.6	- 31. 9	11. 1	- 37. 0	12. 7	- 42. 4	14. 5	- 48. 3	16. 4	- 54. 5	18. 3	- 61. 1
	3	100	4. 1	- 11. 7	4. 5	- 13. 0	5. 0	- 14. 5	5. 5	- 15. 9	6. 1	- 17. 5	6. 6	- 19. 1	7.2	- 20. 8	8.5	- 24. 4	9. 8	- 28. 3	11. 3	- 32. 5	12. 9	- 37. 0	14. 5	- 41. 8	16. 3	- 46. 8

2024 Code Section			TITLE OR SUBJECT										Reviewer Comments										Cost Yes/No				Amendment Needed Yes/No		TAG Comments/ Recommendation			
Gable roof > 27 to 45 degrees	1	10	8.0	-14.7	8.9	-16.3	9.9	-18.1	10.9	-20.0	12.0	-21.9	13.1	-24.0	14.2	-26.1	16.7	-30.6	19.4	-35.5	22.2	-40.8	25.3	-46.4	28.5	-52.3	32.0	-58.7				
	1	20	7.3	-12.4	8.2	-13.9	9.0	-15.4	10.0	-16.9	10.9	-18.6	11.9	-20.3	13.0	-22.1	15.3	-26.0	17.7	-30.1	20.3	-34.6	23.1	-39.3	26.1	-44.4	29.3	-49.8				
	1	50	6.4	-9.5	7.1	-10.6	7.9	-11.7	8.7	-12.9	9.6	-14.2	10.5	-15.5	11.4	-16.9	13.4	-19.8	15.5	-23.0	17.8	-26.4	20.3	-30.0	22.9	-33.9	25.6	-38.0				
	1	100	5.7	-7.3	6.4	-8.1	7.1	-9.0	7.8	-9.9	8.6	-10.8	9.3	-11.9	10.2	-12.9	11.9	-15.1	13.9	-17.6	15.9	-20.2	18.1	-22.9	20.4	-25.9	22.9	-29.0				
	2	10	8.0	-16.2	8.9	-18.0	9.9	-19.9	10.9	-22.0	12.0	-24.1	13.1	-26.4	14.2	-28.7	16.7	-33.7	19.4	-39.1	22.2	-44.9	25.3	-51.0	28.5	-57.6	32.0	-64.6				
	2	20	7.3	-14.4	8.2	-16.1	9.0	-17.8	10.0	-19.7	10.9	-21.6	11.9	-23.6	13.0	-25.7	15.3	-30.1	17.7	-34.9	20.3	-40.1	23.1	-45.6	26.1	-51.5	29.3	-57.7				
	2	50	6.4	-12.2	7.1	-13.6	7.9	-15.0	8.7	-16.6	9.6	-18.2	10.5	-19.9	11.4	-21.6	13.4	-25.4	15.5	-29.5	17.8	-33.8	20.3	-38.5	22.9	-43.4	25.6	-48.7				
	2	100	5.7	-10.5	6.4	-11.6	6.2	-12.9	7.8	-14.2	8.6	-15.6	9.3	-17.1	10.2	-18.6	11.9	-21.8	13.9	-25.3	15.9	-29.0	18.1	-33.0	20.4	-37.3	22.9	-41.8				
	3	10	8.0	-19.9	8.9	-22.1	9.9	-24.5	10.9	-27.0	12.0	-29.7	13.1	-32.4	14.2	-35.3	16.7	-41.4	19.4	-48.0	22.2	-55.2	25.3	-62.8	28.5	-70.8	32.0	-79.4				
	3	20	7.3	-17.3	8.2	-19.3	9.0	-21.3	10.0	-23.5	10.9	-25.8	11.9	-28.2	13.0	-30.7	15.3	-36.1	0.0	-41.8	20.3	-48.0	23.1	-54.6	26.1	-61.7	29.3	-69.1				
	3	50	6.4	-13.9	7.1	-15.5	7.9	-17.1	8.7	-18.9	9.6	-20.7	10.5	-22.7	11.4	-24.7	13.4	-29.0	15.5	-33.6	17.8	-38.6	20.3	-43.9	22.9	-49.5	25.6	-55.5				
	3	100	5.7	-11.3	6.4	-12.6	7.1	-14.0	7.8	-15.4	8.6	-16.9	9.3	-18.5	10.2	-20.1	11.9	-23.6	13.9	-27.4	15.9	-31.4	18.1	-35.8	20.4	-40.4	22.9	-45.3				

2024 Code Section				TITLE OR SUBJECT										Reviewer Comments										Cost Yes/No				Amendment Needed Yes/No		TAG Comments/ Recommendation	
		1	10	6.5	-14.7	7.3	-16.3	8.0	-18.1	8.9	-20.0	9.7	-21.9	10.6	-24.0	11.6	-26.1	13.6	-30.6	15.8	-35.5	18.1	-40.8	20.6	-46.4	23.3	-52.3	26.1	-58.7		
		1	20	5.6	-13.0	6.3	-14.4	6.9	-16.0	7.7	-17.6	8.4	-19.4	9.2	-21.2	10.0	-23.0	11.7	-27.0	13.6	-31.3	15.6	-36.0	17.8	-40.9	20.1	-46.2	22.5	-51.8		
		1	50	4.4	-10.7	5.0	-10.0	5.5	-13.2	6.1	-14.5	6.6	-16.0	7.3	-17.5	7.9	-19.0	9.3	-22.3	10.8	-25.9	12.4	-29.7	14.1	-33.8	15.9	-38.1	17.8	-42.8		
		1	100	3.6	-9.0	4.0	-9.7	4.4	-11.1	4.8	-12.2	5.3	-13.4	5.8	-14.7	6.3	-16.0	7.4	-18.6	8.6	-21.9	9.9	-24.4	11.2	-28.4	12.7	-32.0	14.2	-35.9		
		2	10	6.5	-19.1	7.3	-21.3	8.0	-23.6	8.9	-26.0	9.7	-28.6	10.6	-31.2	11.6	-34.0	13.6	-39.9	15.8	-46.3	18.1	-53.1	20.6	-60.4	23.3	-68.2	26.1	-76.5		
Hipped roof > 7 to 20 degrees	2	20	5.6	-17.2	6.3	-19.2	6.9	-21.3	7.7	-23.5	8.4	-25.7	9.2	-28.1	10.0	-30.6	11.7	-35.9	13.6	-41.7	15.6	-47.9	17.8	-54.5	20.1	-61.5	22.5	-68.9			
	2	50	4.4	-14.7	5.0	-16.4	5.5	-18.2	6.1	-20.1	6.6	-22.0	7.3	-24.1	7.9	-26.2	9.3	-30.7	10.8	-35.7	12.4	-40.9	14.1	-46.6	15.9	-52.6	17.8	-58.9			
	2	100	3.6	-12.8	4.0	-14.3	4.4	-15.9	4.8	-17.5	5.3	-19.2	5.8	-21.0	6.3	-22.8	7.4	-26.8	8.6	-31.1	9.9	-35.7	11.2	-40.6	12.7	-45.9	14.2	-51.4			
	3	10	6.5	-20.6	7.3	-22.9	8.0	-25.4	8.9	-28.0	9.7	-30.8	10.6	-33.6	11.6	-36.6	13.6	-43.0	15.8	-49.8	18.1	-57.2	20.6	-65.1	23.3	-73.5	26.1	-82.4			
	3	20	5.6	-18.5	6.3	-20.7	6.9	-22.9	7.7	-25.2	8.4	-27.7	9.2	-30.3	10.0	-33.0	11.7	-38.7	13.6	-44.9	15.6	-51.5	17.8	-58.6	20.1	-66.2	22.5	-74.2			
	3	50	4.4	-15.8	5.0	-17.6	5.5	-19.5	6.1	-21.5	6.6	-23.6	7.3	-25.8	7.9	-28.1	9.3	-33.0	10.8	-38.3	12.4	-43.9	14.1	-50.1	15.9	-56.5	17.8	-63.3			
	3	100	3.6	-13.8	4.0	-15.3	4.4	-17.0	4.8	-18.7	5.3	-20.6	5.8	-22.5	6.3	-24.5	7.4	-28.6	8.6	-33.3	9.9	-38.2	11.2	-43.5	12.7	-49.1	14.2	-55.1			

2024 Code Section			TITLE OR SUBJECT										Reviewer Comments										Cost Yes/No		Amendment Needed Yes/No		TAG Comments/ Recommendation	
Hipped roof > 20 to 27 degrees	1	10	6.5	-11.7	7.3	-13.0	8.0	-14.5	8.9	-15.9	9.7	-17.5	10.6	-19.1	11.6	-20.8	13.6	-24.4	15.8	-28.3	18.1	-32.5	20.6	-37.0	23.3	-41.8	26.1	-46.8
	1	20	5.6	-10.4	6.3	-11.6	6.9	-12.8	7.7	-14.1	8.4	-15.5	9.2	-16.9	10.0	-18.4	11.7	-21.6	13.6	-25.1	15.6	-28.8	17.8	-32.8	20.1	-37.0	22.5	-41.5
	1	50	4.4	-8.6	5.0	-9.6	5.5	-10.6	6.1	-11.7	6.6	-12.8	7.3	-14.0	7.9	-15.3	9.3	-17.9	10.8	-20.8	12.4	-23.9	14.1	-27.2	15.9	-30.7	17.8	-34.4
	1	100	3.6	-7.3	4.0	-8.1	4.4	-9.0	4.8	-9.9	5.3	-10.8	5.8	-11.9	6.3	-12.9	7.4	-15.1	8.6	-17.6	9.9	-20.2	11.2	-22.9	12.7	-25.9	14.2	-29.0
	2	10	6.5	-16.2	7.3	-18.0	8.0	-19.9	8.9	-22.0	9.7	-24.1	10.6	-26.4	11.6	-28.7	13.6	-33.7	15.8	-39.1	18.1	-44.9	20.6	-51.0	23.3	-57.6	26.1	-64.6
	2	20	5.6	-13.9	6.3	-15.5	6.9	-17.2	7.7	-18.9	8.4	-20.8	9.2	-22.7	10.0	-24.7	11.7	-29.0	13.6	-33.7	15.6	-38.7	17.8	-44.0	20.1	-49.7	22.5	-55.7
	2	50	4.4	-11.0	5.0	-12.2	5.5	-13.5	6.1	-14.9	6.6	-16.4	7.3	-17.9	7.9	-19.5	9.3	-22.9	10.8	-26.4	12.4	-30.5	14.1	-34.7	15.9	-39.2	17.8	-43.9
	2	100	3.6	-8.7	4.0	-9.7	4.4	-10.8	4.8	-11.9	5.3	-13.1	5.8	-14.3	6.3	-15.5	7.4	-18.2	8.6	-21.2	9.9	-24.3	11.2	-27.6	12.7	-31.2	14.2	-35.0
	3	10	6.5	-16.2	7.3	-18.0	8.0	-19.9	8.9	-22.0	9.7	-24.1	10.6	-26.4	11.6	-28.7	13.6	-33.7	15.8	-39.1	18.1	-44.9	20.6	-51.0	23.3	-57.6	26.1	-64.6
	3	20	5.6	-13.9	6.3	-15.5	6.9	-17.2	7.7	-18.9	8.4	-20.8	9.2	-22.7	10.0	-24.7	11.7	-29.0	13.6	-33.7	15.6	-38.7	17.8	-44.0	20.1	-49.7	22.5	-55.7
	3	50	4.4	-11.0	5.0	-12.2	5.5	-13.5	6.1	-14.9	6.6	-16.4	7.3	-17.9	7.9	-19.5	9.3	-22.9	10.8	-26.4	12.4	-30.5	14.1	-34.7	15.9	-39.2	17.8	-43.9
	3	100	3.6	-8.7	4.0	-9.7	4.4	-10.8	4.8	-11.9	5.3	-13.1	5.8	-14.3	6.3	-15.5	7.4	-18.2	8.6	-21.2	9.9	-24.3	11.2	-27.6	12.7	-31.2	14.2	-35.0

2024 Code Section			TITLE OR SUBJECT										Reviewer Comments										Cost Yes/No				Amendment Needed Yes/No		TAG Comments/ Recommendation	
Hip Roof = 45 degrees	1	10	6.5	-12.4	7.3	-13.9	8.0	-15.4	8.9	16.9	9.7	18.6	10.6	20.3	11.6	22.1	13.6	26.0	15.8	30.1	18.1	34.6	20.6	-39.3	23.3	-44.4	26.1	-49.8		
	1	20	5.4	-10.7	6.3	-11.9	6.9	-13.2	7.7	-14.5	8.4	-15.9	9.2	-17.4	10.0	19.0	11.7	-22.2	13.6	-25.8	15.6	-29.6	17.8	-33.7	20.1	-38.0	22.5	-42.7		
	1	50	4.4	-8.3	5.0	-9.3	5.5	-10.3	6.1	-11.3	6.6	-12.4	7.3	-13.6	7.9	-14.8	9.3	-17.3	10.8	-20.1	12.4	-23.1	14.1	-26.2	15.9	-29.6	17.8	-33.2		
	1	100	3.6	-6.5	4.0	-7.3	4.4	-8.0	4.8	-8.9	5.3	-9.7	5.8	-10.6	6.3	-11.6	7.4	-13.6	8.6	-15.8	9.9	-18.1	11.2	-20.6	12.7	-23.3	14.2	-26.1		
	2	10	6.5	-14.7	7.3	-16.3	8.0	-18.1	8.9	20.0	9.7	-21.9	10.6	-24.0	11.6	-26.1	13.6	-30.6	15.8	-35.5	18.1	-40.8	20.6	-46.4	23.3	-52.3	26.1	-58.7		
	2	20	5.6	-12.4	6.3	-13.9	6.4	-15.9	7.7	-16.9	8.4	-18.6	9.2	-20.3	10.0	-22.1	11.7	-26.0	13.6	-30.1	15.6	-34.6	17.8	-39.3	20.1	-44.4	22.5	-49.8		
	2	50	4.4	-9.5	5.0	-10.6	5.5	-11.7	6.1	-12.9	6.6	-14.2	7.3	-15.5	7.9	-16.9	9.3	-19.8	10.8	-23.0	12.4	-26.4	14.1	-30.0	15.9	-33.9	17.8	-38.0		
	2	100	3.6	-7.3	4.0	-8.1	4.4	-9.0	4.8	-9.9	5.3	-10.8	5.8	-11.9	6.3	-12.9	7.4	-15.1	8.6	-17.6	9.9	-20.2	11.2	-22.9	12.7	-25.9	14.2	-29.0		
	3	10	6.5	-19.1	7.3	-21.3	8.0	-23.6	8.9	26.0	9.7	-28.6	10.6	-31.2	11.6	-34.0	13.6	-39.9	15.8	-46.3	18.1	-53.1	20.6	-60.4	23.3	-68.2	26.1	-76.5		
	3	20	5.6	-16.0	6.3	-17.8	6.9	-19.7	7.7	-21.8	8.4	-22.5	8.9	-24.6	9.6	-26.7	11.3	-31.4	13.1	-36.4	15.1	-41.8	17.1	-47.5	19.4	-53.7	22.5	-64.0		

2024 Code Section			TITLE OR SUBJECT										Reviewer Comments										Cost Yes/No		Amendment Needed Yes/No		TAG Comments/ Recommendation	
Walls	3	50	4.4	-11.9	5.0	-13.2	5.5	-14.6	6.1	-16.1	6.6	-17.7	7.3	-19.4	7.9	-21.1	9.3	-24.8	10.8	-28.7	12.4	-33.0	14.1	-37.5	15.9	-42.3	17.8	-47.5
	3	100	3.6	-8.7	4.0	-9.7	4.4	-10.8	4.8	-11.9	5.3	-13.1	5.8	-14.3	6.3	-15.5	7.4	-18.2	8.6	-21.2	9.9	-24.3	11.2	-27.6	12.7	-31.2	14.2	-35.0
	4	10	8.7	-9.5	9.7	-10.6	10.8	-11.7	11.9	-12.9	13.1	-14.2	14.3	-15.5	15.9	-16.9	18.2	-19.8	21.2	-22.9	24.3	-26.3	27.6	-30.0	31.2	-33.8	35.0	-37.9
	4	20	8.3	-9.1	9.3	-10.1	10.3	-11.2	11.4	-12.4	12.5	-13.6	13.8	-14.8	14.8	-16.2	17.4	-19.0	20.2	-22.0	23.2	-25.3	26.4	-28.7	29.8	-32.4	33.4	-36.4
	4	50	7.8	-8.6	8.7	-9.5	9.7	-10.6	10.7	-11.7	11.7	-12.8	12.8	-14.0	13.9	-15.2	16.3	-17.9	18.9	-20.7	21.7	-23.8	24.7	-27.1	27.9	-30.6	31.3	-34.3
	4	100	7.4	-8.2	8.3	-9.1	9.2	-10.1	10.1	-11.1	11.1	-12.2	12.1	-13.3	13.2	-14.5	15.5	-17.1	18.0	-19.8	20.7	-22.7	23.5	-25.8	26.5	-29.2	29.7	-32.7
	5	10	8.7	-11.7	9.7	-13.0	10.8	-14.5	11.9	-15.9	13.1	-17.5	14.3	-19.1	15.5	-20.8	18.2	-24.4	21.2	-28.3	24.3	-32.5	27.6	-37.0	31.2	-41.8	35.0	-46.8
	5	20	8.3	-10.9	9.3	-12.2	10.3	-13.5	11.4	-14.9	12.5	-16.3	13.8	-17.8	14.8	-19.4	17.4	-22.8	20.2	-26.4	23.2	-30.3	26.4	-34.5	29.8	-39.0	33.4	-43.7
	5	50	7.8	-9.9	8.7	-11.0	9.7	-12.2	10.7	-13.4	11.7	-14.8	12.8	-16.1	13.9	-17.6	16.3	-20.6	18.9	-23.9	21.7	-27.4	24.7	-31.2	27.9	-35.2	31.3	-39.5
	5	100	7.4	-9.1	8.3	-10.1	9.2	-11.2	10.1	-12.4	11.1	-13.6	12.1	-14.8	13.2	-16.2	15.5	-19.0	18.0	-22.0	20.7	-25.2	23.5	-28.7	26.5	-32.4	29.7	-36.4

For SI: 1 foot = 304.8 mm, 1 square foot = 0.0929 m², 1 mile per hour = 0.447 m/s, 1 pound per square foot = 0.0479 kPa.

- The effective wind area shall be equal to the span length multiplied by an effective width. This width shall be not less than one-third the span length. For cladding fasteners, the effective wind areas shall not be greater than the area that is tributary to an individual fastener.
- For effective areas between those given, the load shall be interpolated or the load associated with the lower effective areas shall be used.
- Table values shall be adjusted for height and exposure by multiplying by the adjustment coefficient in Table R301.2.1(2).
- See Figure R301.2.1 for locations of zones.
- Plus and minus signs signify pressures acting toward and away from the building surfaces.
- Positive and negative design wind pressures shall not be less than 10 psf.
- Roof overhang loads shall be determined by summing the applicable roof zone pressure with the adjacent wall zone pressure.

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
T R301.2.1(2)	Design Criteria	ICC Approved for correlation reasons with ASCE 7-22	Increase See ICC RB 35-22	No	

TABLE R301.2.1(2)
HEIGHT AND EXPOSURE ADJUSTMENT COEFFICIENTS FOR [Table R301.2.1\(1\)](#)

MEAN ROOF HEIGHT	EXPOSURE		
	B	C	D
15	0.82	1.21	1.47
20	0.89	1.29	1.55
25	0.94	1.35	1.61
30	1.00	1.40	1.66
35	1.05	1.45	1.70
40	1.06	1.49	1.74
45	1.10	1.53	1.78
50	1.13	1.56	1.81
55	1.16	1.59	1.84
60	1.19	1.62	1.87

R301.2.2	Design Criteria		No	NO	
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R301.2.2 Seismic provisions. INSIGHTS

Buildings [within the scope of this code as defined in Section R101.2](#) shall be constructed in accordance with the requirements of this section and other seismic requirements of this code. The seismic provisions of this code shall apply as follows:

1. Townhouses [and buildings as permitted by the exceptions to Section R101.2 containing three or more dwelling units](#) in Seismic Design Categories C, Do, D 1 and D2.
2. Detached one- and two-family dwellings [and buildings as permitted by the exceptions to Section R101.2 containing less than three dwelling units](#) in Seismic Design Categories Do, D 1 and D2.

Buildings in Seismic Design Category E shall be designed to resist seismic loads in accordance with the International Building Code, except where the seismic design categories are reclassified to lower seismic design categories in accordance with Section R301.2.2.1.

Components of buildings not required to be designed to resist seismic loads shall be constructed in accordance with the provisions of this code.

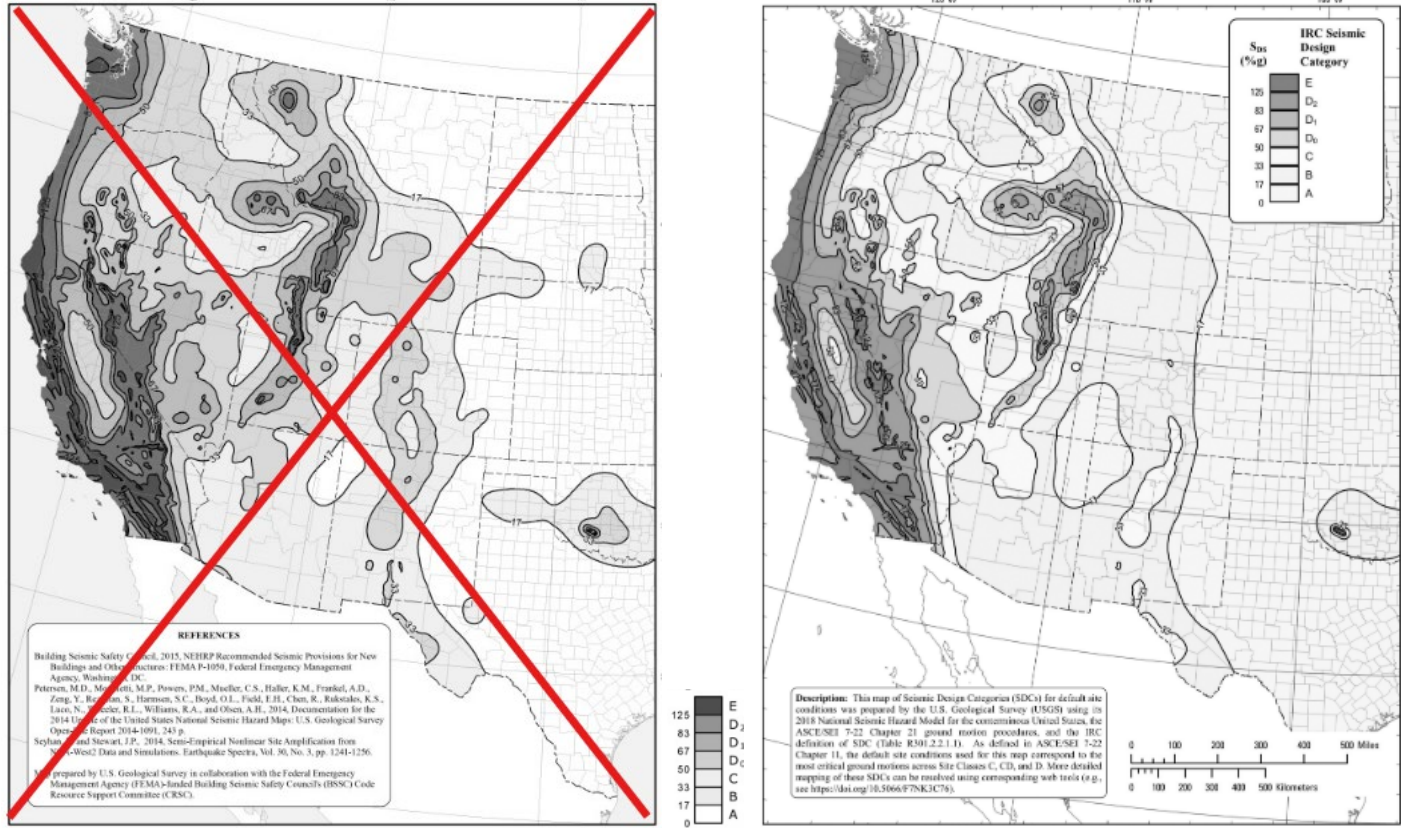
2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
R301.2.2.1	Design Criteria		Increase See ICC RB164- 22	NO	
R301.2.2.1 Determination of seismic design category. INSIGHTS Buildings shall be assigned a seismic design category in accordance with Figures R301.2.2.1(1) through R301.2.2.1(7) , except as otherwise required by Section R401.4 .					

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
F R301.2.2.1(1)	Design Criteria		Increase See ICC RB32-22	NO	

FIGURE R301.2.2.1(1)

SEISMIC DESIGN CATEGORIES FOR DEFAULT SITE CONDITIONS FOR THE CONTERMINOUS UNITED STATES(WESTERN)^a

- a. The seismic design categories and corresponding short-period design spectral response accelerations, S_{DS} , shown in Figures R301.2.2.1(1) through [R301.2.2.1\(7\)](#), are based on the default site class as defined in Chapter 11 of ASCE 7.



2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
R301.2.2.10	Design Criteria	See Existing Amendment Report	Increase, See ICC RB39-22	NO, Repeal Existing Amendment	New Section expands requirements to more than just water heaters and the WA Amendment is no longer needed.
~~R301.2.2.10 Anchorage of water heaters. In Seismic Design Categories D₀, D₁ and D₂, and in townhouses in Seismic Design Category C, water heaters and thermal storage units shall be anchored against movement and overturning in accordance with Section M1307.2 or P2801.8~~ R301.2.2.10 Seismic restraint of appliances and equipment. In Seismic Design Categories D₀, D₁ and D₂ and in townhouses in Seismic Design Category C, appliances and equipment that are designed to be fixed in position shall be supported and braced or anchored to the structure in accordance with the component manufacturer's recommendations or per Section R301.2.2.10.1. Exceptions: Seismic support, bracing and anchorage are not required for the following: 1. Suspended mechanical ducts, electrical conduit, automatic sprinkler systems and plumbing systems. 2. Where the appliance or equipment is bearing on an elevated floor or roof and the housing height is not greater than 1.5 times the width of the housing base in either direction. 3. Where the installed weight of a suspended appliance or equipment is 50 pounds (22.7 kg) or less. 4. Where the installed weight is 400 pounds (181.4 kg) or less and the bottom of the appliance or equipment is 4 feet (1219 mm) or less above the adjacent floor level.					

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
R301.2.2.10.1	Design Criteria		Increase, See ICC RB39-22	NO	
R301.2.2.10.1 Seismic restraint resistance. Supports, bracing and anchorage of appliances and equipment in Seismic Design Categories Do, D1 and D2, and in townhouses in Seismic Design Category C, shall resist a horizontal force equal to one-third times the operating weight of the component, acting in any direction. Bracing shall comply with the following: 1. Components supported at the base shall be braced with strapping at points within the upper one-third of the component's vertical dimensions, or the component anchorage shall be designed to resist overturning. 2. Components suspended from the structure shall be braced to the structure using either flexible or rigid bracing. Flexible bracing such as wires or straps shall be provided in each of the four orthogonal directions. Rigid bracing such as struts or bars may be provided in two orthogonal directions.					
R301.2.3	Design Criteria		Increase, See ICC RB34-22	NO	
R301.2.3 Snow loads. Ground snow loads shall be determined in accordance with Figure R301.2(3) or shall be determined in accordance in with Section 1608 of the International Building Code. Wood-framed construction, cold-formed, steel-framed construction and masonry and concrete construction, and structural insulated panel construction in regions with allowable stress design ground snow loads, $P_{g(asd)}$, 70 pounds per square foot (3.35 kPa) or less, shall be in accordance with Chapters 5, 6 and 8. Buildings in regions with allowable stress design ground snow loads, $P_{g(asd)}$, greater than 70 pounds per square foot (3.35 kPa) shall be designed in accordance with accepted engineering practice.					

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
R301.2.4	Design Criteria		No	NO	
R301.2.4 Floodplain construction. Buildings and structures constructed in whole or in part in flood hazard areas including A or V Zones) as established in Table R301.2, and substantial improvement and <i>repair</i> of substantial damage of buildings and structures located in whole or in part in flood hazard areas, shall be designed and constructed in accordance with Section R322. Buildings and structures that are located in more than one flood hazard area, including A Zones, Coastal A Zones, and V Zones , shall comply with the provisions associated with the most restrictive flood hazard area. Buildings and structures located in whole or in part in identified floodways shall be designed and constructed in accordance with ASCE 24.					
R302.1	Fire Resistant Construction		No	NO	
R302.1 Exterior walls. Construction, projections, openings and penetrations of exterior walls of dwellings, townhouses and accessory buildings shall comply with Table R302.1(1) based on fire separation distance ; or dwellings and townhouses equipped throughout with an automatic sprinkler system installed in accordance with Section P2904 shall comply with Table R302.1(2) based on fire separation distance. For the purposes of determining fire separation distance, dwellings and townhouses on the same lot shall be assumed to have an imaginary line between them. Where a new dwelling or townhouse is to be erected on the same lot as an existing dwelling or townhouse, the location of the assumed imaginary line with relation to the existing dwelling or townhouse shall be such that the existing dwelling or townhouse meets requirements of this section. Where a lot line exists between adjacent townhouse units, fire separation distance of exterior walls shall be measured to the lot line. Where a lot line does not exist between adjacent townhouse units, an imaginary line shall be assumed between the adjacent townhouse units and fire separation distance of exterior walls shall be measured to the imaginary line. Fire separation distance and requirements of Section R302.1 shall not apply to walls separating townhouse units that are required by Section R302.2. Exceptions: 1. Walls, projections, openings or penetrations in walls perpendicular to the line used to determine the fire separation distance. 2. Walls of individual dwelling units and their accessory buildings located on the same lot. 3. Detached tool sheds and storage sheds, playhouses and similar structures exempted from permits are not required to provide wall protection based on location on the lot. Projections beyond the exterior wall shall not extend over the lot line. 4. Detached garages accessory to a dwelling unit located within 2 feet (610 mm) of a lot line are permitted to have roof eave projections not exceeding 4 inches (102 mm). 5. Foundation vents installed in compliance with this code are permitted.					
R302.3	Fire Resistant Construction	See Existing Amendment and Modify.	No	YES	TAG Proposal 24-GP2-047
R302.3 Two-family dwellings.					

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
Dwelling units in two-family dwellings shall be separated from each other in accordance with Sections 302.3.1 through 302.3.5.					
R302.3.1	Fire Resistant Construction		No	NO	TAG Proposal 24-GP2-047
R302.3.1 Dwelling unit separation. The two dwelling units shall be separated by fire-resistance rated assemblies that are vertical, horizontal, or a combination thereof.					
R302.3.2	Fire Resistant Construction		No	NO	TAG Proposal 24-GP2-047
R302.3.2 Fire-resistance rating. Vertical and horizontal assemblies separating dwelling units shall have a fire-resistance rating of 1 hour, or a fire-resistance rating of one-half hour in buildings equipped throughout with an automatic sprinkler system installed in accordance with Section P2904. Fire-resistance ratings shall be based on testing in accordance with ASTM E119 or UL 263, or an analytical method in accordance with Section 703.2.2 of the International Building Code.					
R302.3.3	Fire Resistant Construction	Repeal Existing Amendment. New Model Language has same regulatory effect.	Decrease See ICC RB1-25	NO	TAG Proposal 24-GP2-047
R302.3.3 Continuity. Vertical and horizontal assemblies separating dwelling units shall be constructed in a manner that provides continuity of the fire-resistance rating between the dwelling units.					
R302.3.3.2	Fire Resistant Construction	New Model Language Breaks Exception out From 2021 amendment to R302.3.2	Decrease See ICC RB1-25	NO	TAG Proposal 24-GP2-047
R302.3.3.2 Vertical assemblies.					

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
Vertical assemblies separating dwelling units shall extend to and be tight against any combination of the following: 1. The foundation. 2. A horizontal assembly complying with Section R302.3.3. 3. The underside of roof sheathing. 4. The ceiling beneath an uninhabitable attic, provided that the ceiling is constructed using not less than 5/8-inch (15.9 mm) Type X gypsum board, an attic draft stop constructed as specified in Section R302.12.1 is provided above and along the vertical assembly terminating at the ceiling, and the structural framing supporting the ceiling is protected by not less than 1/2-inch (12.7 mm) gypsum board or equivalent.					
R302.3.4	Fire Resistant Construction	Repeal Existing Amendment. New Model Language has same regulatory Effect as Existing Amendment	Decrease See ICC RB1-25	NO	TAG Proposal 24-GP2-047
R302.3.4 Supporting construction. Vertical and horizontal assemblies separating dwelling units shall be supported by construction having an equal or greater fire-resistance rating.					
R302.3.5	Fire Resistant Construction	New Model Language	Decrease See ICC RB1-25	NO	TAG Proposal 24-GP2-047
R302.3.5 Vertically stacked dwelling units. Where one dwelling unit in a two-family dwelling is located above the other and an automatic sprinkler system complying with Section P2904 is not provided in both dwelling units, both of the following shall apply: 1. Horizontal and vertical assemblies separating the dwelling units, including an interior stairway serving as the means of egress for the upper dwelling unit, shall be constructed in a manner that limits the transfer of smoke. 2. A notification appliance connected to smoke alarms in the other dwelling unit shall be provided in each dwelling unit.					
R302.3.6	Fire Resistant Construction		No	YES	TAG Proposal 24-GP2-047
R302.3.6 Shared accessory rooms. Shared accessory rooms shall be separated from each individual dwelling unit in accordance with Table R302.3.6. Openings between the shared accessory room and dwelling unit shall comply with Section R302.3.6.1. Attachment of gypsum board shall comply with Table R702.3.5.					

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
T R302.3.6	Fire Resistant Construction	New Table	No, See ICC RB69-25	NO	TAG Proposal 24- GP2-047

TABLE R302.3.6 DWELLING-SHARED ACCESSORY ROOM SEPARATION

SEPARATION	MATERIAL
From the dwelling units and attics	Not less than 1/2-inch gypsum board or equivalent applied to the accessory room side wall
From habitable rooms above or below the shared accessory room	Not less than 5/8-inch Type X gypsum board or equivalent
Structures supporting floor/ceiling assemblies used for separation required by this section	Not less than 1/2-inch gypsum board or equivalent

For SI: 1 inch = 25.4 mm.

R302.3.6.1	Fire Resistant Construction		No	NO	TAG Proposal 24- GP2-047
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R302.3.6.1 Opening protection.

Openings from a shared accessory room or area directly into a room used for sleeping purposes shall not be permitted. Other openings between the shared accessory room or area and dwelling units shall be equipped with solid wood doors not less than 1 3/8 inches (35 mm) in thickness, solid or honeycomb core steel doors not less than 13/8 inches (35 mm) in thickness, or a fire door assembly with a 20-minute fire-protection rating, equipped with a self-closing or automatic-closing device.

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
R302.3.6.2	Fire Resistant Construction	Repeal Existing Amendment. New Model Language has same Regulatory Effect.	No	NO	TAG Proposal 24-GP2-047
R302.3.6.2 Duct penetration. Ducts penetrating the walls or ceilings separating the dwelling from the shared accessory room shall be constructed of sheet steel not less than No. 26 gage (0.48 mm) or other approved material and shall not have openings into the shared accessory room.					
R302.3.6.3	Fire Resistant Construction	Repeal Existing Amendment. New Model Language has same Regulatory Effect.	No	NO	TAG Proposal 24-GP2-047
R302.3.6.3 Other penetrations. Penetrations through the walls, ceiling and floor-level separation required in Section R302.3.6 shall be protected as required by Section R302.11, Item 4.					
R302.13 EX #5	Fire Resistant Construction	New Exception. See Existing Amendments Report	Decrease, See RB77-25	NO	TAG Proposal 24-GP2-045 On Exception #1
5. Wood floor assemblies less than 600 square feet (55.7 m2) within detached accessory structures with no habitable space above them.					
R303.1.1	Foam Plastic	Foam Plastic Sections Moved From 316 to 303	No	NO	
R303.1.1 Spray-applied foam plastic. Single- and multiple-component spray-applied foam plastic insulation shall comply with the provisions of Section R303 and ICC 1100.					
R303.1.2	Foam Plastic		No	NO	
R303.1.2 Insulating sheathing. Foam plastic materials used as insulating sheathing shall comply with the provisions of Section R303 and the material standards in Table R303.1.2.					
T R303.1.2	Foam Plastic		No	NO	

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
TABLE R303.1.2MATERIAL STANDARDS FOR FOAM PLASTIC INSULATING SHEATHING					
FOAM PLASTIC INSULATING SHEATHING			MATERIAL STANDARDS		
Expanded Polystyrene (EPS)			ASTM C578		
Extruded Polystyrene (XPS)			ASTM C578		
Polyisocyanurate			ASTM C1289		
R306.2.1	Flood Resistant Construction	Section moved from 322 to 306. allows wet floodproofed accessory structures and detached garages in flood hazard areas	Decrease, See RB137- 22	NO	

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
R306.2.1 Elevation requirements. 1. Buildings and structures in flood hazard areas, not including flood hazard areas designated as Coastal A Zones, shall have the lowest floors elevated to or above the base flood elevation plus 1 foot (305 mm), or the design flood elevation, whichever is higher. 2. In areas of shallow flooding (AO Zones), buildings and structures shall have the lowest floor (including basement) elevated to a height above the highest adjacent grade of not less than the depth number specified in feet (mm) on the FIRM plus 1 foot (305 mm), or not less than 3 feet (915 mm) if a depth number is not specified. 3. Basement floors that are below grade on all sides shall be elevated to or above base flood elevation plus 1 foot (305 mm), or the design flood elevation, whichever is higher. 4. Attached garages and carports shall comply with one of the following: 4.1. The floors shall be elevated to or above the elevations required in Item 1 or Item 2, as applicable. 4.2. The floors shall be at or above grade on not less than one side. Where an attached garage or carport is enclosed by walls, the walls shall have flood openings that comply with Section R306.2.2 and the attached garage or carport shall be used only for parking, building access or storage. 5. Detached accessory structures and detached garages shall comply with one of the following: 5.1. The floors shall be elevated to or above the elevations required in Item 1 or Item 2, as applicable. 5.2. Floors below the elevations required in Item 1 or 2, as applicable, must be: 5.2.1. Used only for parking or storage. 5.2.2. One story and not larger than 600 square feet (55.74 m2). 5.2.3. Anchored to resist flotation, collapse or lateral movement resulting from design flood loads. 5.2.4. Equipped with flood openings that comply with Section R306.2.2. 5.2.5. Constructed of flood-damage-resistant materials that comply with Section R306.1.8. Have mechanical, plumbing and electrical systems, if applicable, that comply with Section R306.1.6. Exception: Enclosed areas below the elevation required in this section, including basements with floors that are not below grade on all sides, shall meet the requirements of Section R306.2.2.					
R306.3.2	Flood Resistant Construction	Section moved from 322 to 306. allows wet floodproofed accessory structures and detached garages in flood hazard areas	Decrease, See RB137-22	NO	

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
R306.3.2 Elevation requirements. 1. Buildings and structures erected within coastal high-hazard areas and Coastal A Zones, shall be elevated so that the bottom of the lowest horizontal structural members supporting the lowest floor, with the exception of piling, pile caps, columns, grade beams and bracing, is elevated to or above the base flood elevation plus 1 foot (305 mm) or the design flood elevation, whichever is higher. Where stem wall foundations are permitted in Coastal A Zones in accordance with Section R306.3.3, the bottom of the lowest horizontal structural member supporting the lowest floor is the top of the foundation wall, or top of the portion of the foundation wall, supporting the slab. 2. Basement floors that are below grade on all sides are prohibited. 3. Attached garages used only for parking, building access or storage, and carports shall comply with Item 1 or shall be at or above grade on not less than one side and, if enclosed with walls, such walls shall comply with Item 7. 4. Detached accessory structures and detached garages shall comply with either of the following: 4.1. The bottom of the lowest horizontal structural member supporting the floors shall be elevated to or above the elevation required in Item 1. 4.2. Floors below the elevations required in Item 1 must be: 4.2.1. Used only for parking or storage. 4.2.2. One story and not larger than 100 square feet (9.29 m²). 4.2.3. Anchored to resist flotation, collapse or lateral movement resulting from design flood loads. 4.2.4. Constructed of flood damage-resistant materials that comply with Section R306.1.8. 4.2.5. Equipped with mechanical, plumbing and electrical systems, if applicable, that comply with Section R306.1.6. 5. The use of fill for structural support is prohibited. 6. Minor grading, and the placement of minor quantities of fill, shall be permitted for landscaping and for drainage purposes under and around buildings and for support of parking slabs, pool decks, patios and walkways. 7. Walls and partitions enclosing areas below the elevation required in this section shall meet the requirements of Sections R306.3.5 and R306.3.6.					
R306.3.5	Flood Resistant Construction	elevator shafts do not require openings and breakaway walls, but the	Decrease, See RB138-22	NO	

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
		shafts must meet other requirements			
R306.3.5 Walls below required elevation. Walls and partitions are permitted below the elevation required in Section R306.3.2, provided that such walls and partitions are not part of the structural support of the building or structure and: 1. Electrical, mechanical and plumbing system components are not to be mounted on or penetrate through walls that are designed to break away under flood loads; and 2. Are constructed with insect screening or open lattice; or 3. Are designed to break away or collapse without causing collapse, displacement or other structural damage to the elevated portion of the building or supporting foundation system. Such walls, framing and connections shall have a resistance of not less than 10 (479 Pa) and not more than 20 pounds per square foot (958 Pa) as determined using allowable stress design, or a resistance to an ultimate load of not less than 17 and not more than 33 pounds per square foot (814 and 1580 Pa); or 4. Where wind loading values of this code exceed 20 pounds per square foot (958 Pa), as determined using allowable stress design or an ultimate load of 33 pounds per square foot (1580 Pa), the construction documents shall include documentation prepared and sealed by a registered design professional that: 4.1. The walls and partitions below the required elevation have been designed to collapse from a water load less than that which would occur during the base flood. 4.2. The elevated portion of the building and supporting foundation system have been designed to withstand the effects of wind and flood loads acting simultaneously on structural and nonstructural building components. Water-loading values used shall be those associated with the design flood. Wind-loading values shall be those required by this code. 5. Walls intended to break away under flood loads as specified in Item 3 or 4 have flood openings that meet the criteria in Section R306.2.2, Item 2. Exceptions: The following shall not be required to comply with this section: 1. Elevator shafts. 2. Utility chases that protect utility lines from freezing, provided that the utility chases are the minimum size necessary to protect the utility lines and do not provide access for a person to enter the space.					
R310.3	Smoke Alarms	Adds Sleeping Lofts to location. See Existing Amendments Report.	No	Modify Existing Amendment R314.3	TAG Proposal 24-GP2-046

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
R310.3 Location. Smoke alarms shall be installed in the following locations: 1. In each sleeping room. 2. Outside each separate sleeping area in the immediate vicinity of the bedrooms. 3. On each additional story of the dwelling unit, including basements and habitable attics and not including crawl spaces and uninhabitable attics. In dwelling units with split levels and without an intervening door between the adjacent levels, a smoke alarm installed on the upper level shall suffice for the adjacent lower level provided that the lower level is less than one full story below the upper level. 4. Not less than 3 feet (914 mm) horizontally from the door or opening of a bathroom that contains a bathtub or shower unless this would prevent placement of a smoke alarm required by this section. 5. In the hallway and in the room open to the hallway in dwelling units where the ceiling height of a room open to a hallway serving bedrooms exceeds that of the hallway by 24 inches (610 mm) or more. 6. Within the room to which a sleeping loft is open, in the immediate vicinity of the sleeping loft.					
R310.3.1	Smoke Alarms	Correlates changes in IFC and aligns with current NFPA 72	No	NO	
R310.3.1 Installation near cooking appliances. Smoke alarms shall be installed not less than 10 feet (3048 mm) horizontally from a permanently installed cooking appliance. Exception: Smoke alarms shall be permitted to be installed not less than 6 feet (1829 mm) horizontally from a permanently installed cooking appliance where necessary to comply with Section R310.3.					
R313.1.2	Ceiling Height	New Section Clarifying addition to Ceiling Heights Section	No	NO	
R313.1.2 Habitable attics and basements in existing buildings.					

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
Where a habitable attic or habitable space in a basement is created in an existing building, ceiling height shall not be less than 6 feet 8 inches (2032 mm). Bathrooms, toilet rooms and laundry rooms shall have a ceiling height of not less than 6 feet 4 inches (1930 mm). Exceptions: 1.For rooms with sloped ceilings, the required floor area of the room shall have a ceiling height of not less than 5 feet (1524 mm) and not less than 50 percent of the required floor area shall have a ceiling height of not less than 6 feet 8 inches (2032 mm). 2.At beams, girders, ducts or other obstructions, the ceiling height shall be not less than 6 feet 4 inches (1930 mm) from the finished floor.					
R314.1	Mezzanines	New Exception	No	NO	
R314.1 General. Mezzanines shall comply with Sections R314.2 through R314.5. <u>Exception: Sleeping lofts in dwelling units and sleeping units shall be permitted to comply with Section R315, subject to the limitations in Section R315.2.</u>					
R315.1	Sleeping Lofts	New Section to replace amendment in R333.1 See Existing Amendment Report	No	No Repeal Existing Amendment	TAG Proposal 24-GP2-046
R315.1 Sleeping lofts. Where provided in <i>dwelling units</i> or <i>sleeping units</i>, <i>sleeping lofts</i> shall comply with this code as modified by Sections R315.2 through R315.5. <i>Sleeping lofts</i> constructed in compliance with this section shall be considered a portion of the <i>story</i> below. Such <i>sleeping lofts</i> shall not contribute to the number of <i>stories</i> as regulated by this code. Exceptions: <i>Sleeping lofts</i> need not comply with Section R315 where they meet any of the following conditions: 1.The <i>sleeping loft</i> has a depth of less than 3 feet (914 mm). 2.The <i>sleeping loft</i> has a floor area of less than 35 square feet (3.3 m²). 3.The <i>sleeping loft</i> is not provided with a permanent means of egress.					
R315.2	Sleeping Lofts	New Section to replace amendment in R333.2 See Existing Amendment Report	No	NO Repeal Existing Amendment	TAG Proposal 24-GP2-046

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
R315.2 Sleeping loft limitations. <i>Sleeping lofts</i> shall comply with the following conditions: 1.The sleeping loft floor area shall be less than 70 square feet (6.5 m ²). 2.The sleeping loft <i>ceiling height</i> shall not exceed 7 feet (2134 mm) for more than one-half of the sleeping loft floor area.					
R315.3	Sleeping Lofts	New Section to replace amendment in R333.23See Existing Amendment Report	No	NO Repeal Existing Amendment	TAG Proposal 24-GP2-046
R315.3 Sleeping loft ceiling height. The clear height below the sleeping loft floor construction shall not be less than 7 feet (2134 mm). The <i>ceiling height</i> above the finished floor of the <i>sleeping loft</i> shall not be less than 3 feet (914 mm). Spaces adjacent to the <i>sleeping loft</i> with a sloped ceiling measuring less than 3 feet (914 mm) from the finished floor to the finished ceiling shall not contribute to the sleeping loft floor area.					
R315.4	Sleeping Lofts	New Section to replace amendment in R333.4 See Existing Amendment Report	No	NO Repeal Existing Amendment	TAG Proposal 24-GP2-046
R315.4 Sleeping loft area. The aggregate area of all sleeping lofts and mezzanines within a room shall comply with Section R314.3. Exception: The area of a single sleeping loft located within a dwelling unit or sleeping unit equipped with an automatic sprinkler system in accordance with Section P2904 shall not be greater than two-thirds of the area of the room in which it is located, provided that no other sleeping lofts or mezzanines are open to the room in which the sleeping loft is located.					
R315.5	Sleeping Lofts	New Section to replace amendment in R333.5 See Existing Amendment Report	No	NO Repeal Existing Amendment	TAG Proposal 24-GP2-046
R315.5 Permanent egress for sleeping lofts. A permanent means of egress shall be provided for <i>sleeping lofts</i> . The means of egress shall comply with Section R318 as modified by Sections R315.5.1 through R315.5.3 .					
R315.5.1	Sleeping Lofts	New Section to replace amendment in R333.5.1 See Existing Amendment Report	No	NO Repeal Existing Amendment	TAG Proposal 24-GP2-046

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
R315.5.1 Ceiling height at sleeping loft means of egress. <i>A ceiling height of not less than 3 feet (914 mm) shall be provided for the entire width of the means of egress from the sleeping loft.</i>					
R315.5.2	Sleeping Lofts	New Section	No	NO	TAG Proposal 24-GP2-046
R315.5.2 Stairways. <i>Stairways providing egress from sleeping lofts shall be permitted to comply with Sections R315.5.2.1 through R315.5.2.3.</i>					
R315.5.2.1	Sleeping Lofts	New Section	No	NO	TAG Proposal 24-GP2-046
R315.5.2.1 Width. <i>Stairways providing egress from a sleeping loft shall not be less than 17 inches (432 mm) in clear width at or above the handrail. The width below the handrail shall be not less than 20 inches (508 mm).</i>					
R315.5.2.2	Sleeping Lofts	New Section	No	NO	TAG Proposal 24-GP2-046
R315.5.2.2 Treads and risers. <i>Risers for stairs providing egress from a sleeping loft shall be not less than 7 inches (178 mm) and not more than 12 inches (305 mm) in height. Tread depth and riser height shall be calculated in accordance with one of the following formulas:</i> 1.The tread depth shall be 20 inches (508 mm) minus four-thirds of the riser height. 2.The riser height shall be 15 inches (381 mm) minus three-fourths of the tread depth.					
R315.5.2.3	Sleeping Lofts	New Section	No	NO	TAG Proposal 24-GP2-046
R315.5.2.3 Landings. <i>Landings at stairways providing egress from sleeping lofts shall comply with Section R318.7.6, except that the depth of landings in the direction of travel shall be not less than 24 inches (610 mm).</i>					
R315.5.3	Sleeping Lofts	New Section	No	NO	TAG Proposal 24-GP2-046
R315.5.3 Ladders. <i>Ladders used as a means of egress from sleeping lofts shall comply with Sections R315.5.3.1 and R315.5.3.2.</i>					
R315.5.3.1	Sleeping Lofts	New Section	No	NO	TAG Proposal 24-GP2-046

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
R315.5.3.1 Size and capacity. Ladders providing egress from <i>sleeping lofts</i> shall have a rung width of not less than 12 inches (305 mm), and 10-inch (254 mm) to 14-inch (356 mm) spacing between rungs. Ladders shall be capable of supporting a 300-pound (136 kg) load on any rung. Rung spacing shall be uniform within $\frac{3}{8}$ inch (9.5 mm).					
R315.5.3.2	Sleeping Lofts	New Section	No	NO	TAG Proposal 24-GP2-046
R315.5.3.2 Incline. Ladders shall be inclined at 70 to 80 degrees from horizontal.					
R317.6	Electric Vehicle Charging Systems	New Section Incorporate Amendment from R309.6.1 here. See Existing Amendment Report	No	YES	Edited 7/29. TAG Proposal 24-GP2-049
R317.6 Electric vehicle charging systems. Where provided, electric vehicle charging systems shall be installed in accordance with NFPA 70 . Electric vehicle charging system equipment shall be <i>listed</i> and <i>labeled</i> in accordance with UL 2202 . <i>Electric vehicle supply equipment</i> shall be <i>listed</i> and <i>labeled</i> in accordance with UL 2594 .					
R317.7	Automotive Lifts	New Section	No	NO	
R317.7 Automotive Lifts. Where provided, automotive lifts shall be <i>listed</i> and <i>labeled</i> in accordance with ANSI/ALI ALCTV .					
R317.7.1	Automotive Lifts	New Section	No	NO	
R317.7.1 Installation. Automotive lifts shall be installed in accordance with ANSI/ALI ALCTV , the listing and the lift manufacturer's installation instructions. Automotive lifts shall not be installed within the <i>habitable space of a dwelling unit</i> .					
R318.7.6 Ex#2	Means of Egress	New Exception	No	NO	
2. At an enclosed garage, the top landing at the <i>stair</i> shall be permitted to be not more than $7\frac{3}{4}$ inches (197 mm) below the top of the threshold.					
R318.7.6 Ex#4	Means of Egress	New Exception	No	NO	
3. At exterior doors, a top landing is not required for an exterior stairway of not more than two risers, provided that the door does not swing over the <i>stairway</i> .					
R318.7.6 Ex#4	Means of Egress	New Exception	Decrease, See RB108-22	NO	

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
4.Exterior <i>stairways</i> to grade with three or fewer <i>risers</i> serving a deck, porch or patio shall have a bottom landing width of not less than 36 inches (914 mm), provided that the stairway is not the required access to grade serving the required egress door.					
R318.7.9	Means of Egress	New Section	Decrease, See RB114-22	NO	
R318.7.9 Stairways in existing buildings. <i>Alterations</i> to existing <i>stairs</i> shall not be required to comply with the requirements of this code where the existing space and construction does not allow a reduction in pitch or slope.					
R319.1	Emergency Escape and Rescue Openings	Adds sleeping lofts to section and ICC 500 for Storm Shelters See Existing Amendment Report.	No	YES, Modify Existing	TAG Proposal 24-GP2-046
R319.1 Emergency escape and rescue opening required. <i>Basements, habitable attics, the room to which a sleeping loft is open</i> , and every sleeping room shall have not less than one operable <i>emergency escape and rescue opening</i> . Where <i>basements</i> contain one or more sleeping rooms, an <i>emergency escape and rescue opening</i> shall be required in each sleeping room. <i>Emergency escape and rescue openings</i> shall open directly into a <i>public way</i> , or to a <i>yard</i> or <i>court</i> that opens to a <i>public way</i> . Exceptions: 1.<i>Basements</i> used only to house mechanical <i>equipment</i> not exceeding a total floor area of 200 square feet (18.58 m²). 2. <i>Storm shelters constructed in accordance with ICC 500</i>. 3.Where the dwelling <i>unit</i> or <i>townhouse unit</i> is equipped with an automatic sprinkler system installed in accordance with Section P2904, sleeping rooms in <i>basements</i> shall not be required to have <i>emergency escape and rescue openings</i> provided that the <i>basement</i> has one of the following: 3.1.One means of egress complying with Section R318 and one <i>emergency escape and rescue opening</i>. 3.2.Two means of egress complying with Section R318. 4.A <i>yard</i> shall not be required to open directly into a <i>public way</i> where the <i>yard</i> opens to an unobstructed path from the <i>yard</i> to the <i>public way</i>. Such path shall have a width of not less than 36 inches (914 mm).					
R319.5.1	Emergency Escape and Rescue Openings	New Section	No	NO	
R319.5.1 Window opening control device and fall protection device height. Window opening control devices or fall protection devices shall be located at a height in accordance with Section R319.1.1 or at as low a height as the device can be installed within the existing clear opening.					

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
R320.5	Handrails	Combines Handrail Sections from all Stairs and Ramps. Adds Maximum Space allowed at Handrail Returns	No	NO	
R320.5 Continuity. Handrails shall be continuous for the full length of the <i>flight</i> , from a point directly above the <i>nosing</i> of the <i>landing at the top of the flight</i> to a point directly above the lowest <i>nosing</i> of the <i>flight</i> . <i>Handrails where required for ramps shall be continuous for the full length of the ramp</i> . A handrail end shall be returned continuous to itself or toward a wall, guard or walking surface. <i>Handrail returns shall not form a gap more than 1/4 inch (6.4 mm) from the adjacent wall</i> . Exceptions: 1. Handrail continuity shall be permitted to be interrupted by a newel post at a turn in a <i>flight</i> with <i>winders</i> , at a landing, or over the lowest tread. 2. A volute, turnout or starting easing shall be allowed to terminate over the lowest tread.					
R322.3	Accessibility	Makes Ch 11 of IBC applicable to Care Facilities listed in R101.2	No	YES	TAG Proposal 24-GP2-048
R322.3 Care facilities. Where care facilities are permitted to be constructed in accordance with <i>Section R101.2</i> , the portions of the <i>dwelling</i> used to operate a business providing care shall be accessible in accordance with <i>Chapter 11 of the International Building Code</i> .					
R323.1.1	Elevators and Platform Lifts	New Section. Adds ASME and CSA Standards to alert builders to already existing standards	No	NO	
R323.1.1 Private residence elevators. The design, construction and installation of private residence elevators installed within a residential unit or providing access to one individual <i>dwelling unit</i> shall conform to <i>ASME A17.1/CSA B44, Section 5.3</i> .					

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
R323.1.1.1	Elevators and Platform Lifts	New Section. Adds ASME and CSA Standards to alert builders to already existing standards	No	NO	
R323.1.1.1 Hoistway enclosures. Hoistway enclosures for private residence elevators shall comply with ASME A17.1/CSA B44, Requirement 5.3.1.1.					
R323.1.1.2	Elevators and Platform Lifts	New Section. Adds ASME and CSA Standards to alert builders to already existing standards	No	NO	
R323.1.1.2 Hoistway opening protection. Hoistway landing doors for private residence elevators shall comply with ASME A17.1/CSA B44, Requirements 5.3.1.8.1 through 5.3.1.8.3.					
R325.1.1	Light, Ventilation and Heating	The requirements for natural light and ventilation are combined in Section R325. This modification splits the requirements into their own subsections with no intended technical changes. See Existing	No	YES	Edited 7/29 change recommendation from repeal existing to maintain. Combine Existing amendments into new model code language TAG

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
		Amendment Report Section R303.			Proposal 24-GP2-044
R325.1.1 Natural light. Habitable rooms shall have an aggregate area of glazed openings not less than 8 percent of the floor area of such rooms. Required glazed openings shall face directly onto a street, alley or <i>public way</i>, or a yard or <i>court</i> located on the same <i>lot</i> as the <i>building</i>. Exceptions: 1. Required glazed openings shall be permitted to face into a roofed porch, deck or patio adjacent to a street, alley, <i>public way</i>, yard or <i>court</i>, where there the longer side of the roofed area is not less than 65 percent unobstructed and the <i>ceiling height</i> is not less than 7 feet (2134 mm). 2. Required glazed openings shall be permitted to face into a <i>sunroom</i> adjacent to a street, alley, <i>public way</i>, yard or <i>court</i>. 3. Glazed openings are not required where artificial light is provided that is capable of producing an average illumination of 6 footcandles (65 lux) over the area of the room at a height of 30 inches (762 mm) above the floor level. 4. Eave projections shall not be considered as obstructing the clear open space of a <i>yard</i> or <i>court</i>.					
R325.1.2	Light, Ventilation and Heating	The requirements for natural light and ventilation are combined in Section R325. This modification splits the requirements into their own subsections with no intended technical changes. Contains Amendment Language	No	NO	TAG Proposal 24-GP2-044

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
R325.1.2 Natural ventilation. Habitable rooms shall have an aggregate area openable to the outdoors not less than 4 percent of the floor area of such rooms. Openings shall be through windows, <i>skylights</i>, doors, louvers or other <i>approved</i> openings to the outdoor air. Such openings shall be provided with <i>ready access</i> or shall otherwise be readily controllable by the building occupants. Exceptions: 1. Natural <i>ventilation</i> shall not be required in habitable rooms other than <i>kitchens</i> where a whole-house mechanical <i>ventilation</i> system or a mechanical <i>ventilation</i> system capable of producing 0.35 air changes per hour in the habitable rooms is installed in accordance with Section M1505. 2. Natural <i>ventilation</i> shall not be required in <i>kitchens</i> where a <i>local exhaust</i> system is installed in accordance with Section M1505. 3. Required <i>ventilation</i> openings shall be permitted to open into a thermally isolated <i>sunroom</i> or roofed porch, deck, or patio where not less than 40 percent of the roofed area perimeter is open to the outdoor air. 4. Required <i>ventilation</i> openings shall be permitted to open into a thermally isolated <i>sunroom</i> provided there is an openable area between the adjoining room and the sunroom of not less than one-tenth of the floor area of the interior room and not less than 20 square feet (1.9 m²). The minimum openable area of the <i>sunroom</i> to outdoor air shall be based on the total floor area of the adjoining room and the <i>sunroom</i>.					
R329.3.1	Solar Energy Systems	Adds UL Standard for BIPVs	No	NO	
R329.3.1 Equipment listings. <i>Photovoltaic panels</i> and modules shall be <i>listed</i> and <i>labeled</i> in accordance with UL 1703 or with both UL 61730-1 and UL 61730-2. Inverters shall be <i>listed</i> and <i>labeled</i> in accordance with UL 1741. Systems connected to the utility grid shall use inverters <i>listed</i> for utility interaction. Mounting systems <i>listed</i> and <i>labeled</i> in accordance with UL 2703 shall be installed in accordance with the manufacturer's installation instructions and their listings. Building-integrated photovoltaic (BIPV) roof coverings and BIPV roof assemblies shall be listed and labeled in accordance with UL 7103.					
R329.5.2	Solar Energy Systems	This recognizes other types of BIPV systems that are available for installation	No	NO	

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
		and does not limit to just roofing applications.			
R329.5.2 BIPV exterior wall coverings and fenestration. BIPV exterior wall coverings and fenestration shall comply with Section R705 .					
R329.6.4	Solar Energy Systems	Aligns with IFC and adds new standard	No	NO	
R329.6.4 Building-integrated photovoltaic (BIPV) systems. Where building-integrated photovoltaic (BIPV) systems are installed in a manner creating areas with electrical hazards that are hidden from view, markings shall be provided to identify the hazardous areas to avoid for ladder placement. The markings shall be reflective and be visible from <i>grade</i> beneath the eaves or other location <i>approved</i> by the fire code official. Exception: BIPV systems <i>listed</i> in accordance with UL 3741 , where the removal or cutting away of portions of the <i>BIPV</i> system during firefighting operations have been determined to not expose a firefighter to electrical shock hazards.					
R329.7	Solar Energy Systems	Establishes appropriate fire testing and listing criteria for overhead PV support structures	No	NO	
R329.7 Elevated photovoltaic (PV) support structures. Elevated <i>PV</i> support structures used as an <i>accessory structure</i> shall comply with either Section R329.7.1 or R329.7.2 . Elevated <i>PV</i> support structures shall be considered a roof for the purposes of establishing the number of <i>stories</i> and fire separation distances.					
R329.7.1	Solar Energy Systems	Establishes appropriate fire testing and listing criteria for overhead PV support structures	No	NO	
R329.7.1 PV panels installed over open-grid framing or noncombustible deck. Elevated <i>PV</i> support structures with <i>PV</i> panels installed over open-grid framing or over a noncombustible deck shall have <i>PV</i> panels tested, listed and <i>labeled</i> with a fire type rating in accordance with UL 1703 or with both UL 61730-1 and UL 61730-2 . <i>Photovoltaic panels</i> marked “not fire rated” shall not be installed on elevated <i>PV</i> support structures.					
R329.7.2	Solar Energy Systems	Establishes appropriate fire testing and listing criteria for overhead PV support structures	No	NO	

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
R329.7.2 PV panels installed over a roof assembly. Elevated PV support structures with a PV panel system installed over a <i>roof assembly</i> shall have a fire classification in accordance with Section R902.4 .					
R330.4 #4	Energy Storage Systems	To reduce the chance of fire spread and allow its occupants ample amount of time to evacuate the building the envelope must be sealed.	Increase See RB157-22	NO	
4. Enclosed utility closets, basements, storage or utility spaces within <i>dwelling units</i> with finished or noncombustible walls and ceilings. Walls and ceilings of unfinished wood-framed construction shall be provided with not less than $\frac{5}{8}$ -inch (15.9 mm) <i>Type X gypsum wallboard</i> . Openings into the dwelling shall be equipped with solid wood doors not less than $1\frac{3}{8}$ inches (35 mm) in thickness, solid or honeycomb-core steel doors not less than $1\frac{3}{8}$ inches (35 mm) in thickness, or doors with a 20-minute fire protection rating. Doors shall be self-latching and equipped with a self-closing or an automatic-closing device. Penetrations through the required <i>gypsum wallboard</i> into the dwelling shall be protected as required by Section R302.11 , Item 4.					
R330.8.1	Energy Storage Systems	Aligns with IFC changes. The intent is to provide clear methods for providing vehicle impact protection.	No	NO	
R330.8.1 Garages. Where an ESS is installed in the normal driving path of vehicle travel within a garage, impact protection complying with Section R330.8.3 shall be provided. The normal driving path is a space between the garage vehicle opening and the interior face of the back wall to a height of 48 inches (1219 mm) above the finished floor. The width of the normal driving path shall be equal to the width of the garage door opening. Impact protection shall also be provided for an ESS installed at either of the following locations (see Figure R330.8.1): 1. On the interior face of the back wall and located within 36 inches (914 mm) to the left or to the right of the normal driving path. 2. On the interior face of a side wall and located within 24 inches (610 mm) from the back wall and 36 inches (914 mm) of the normal driving path. Exception: Where the clear height of the vehicle garage opening is 7 feet 6 inches (2286 mm) or less, ESS installed not less than 36 inches (914 mm) above finished floor are not subject to vehicle impact protection requirements.					

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
R330.8.2	Energy Storage Systems	Aligns with IFC changes. The intent is to provide clear methods for providing vehicle impact protection.	No	NO	
R330.8.2 Other locations subject to vehicle impact. Where an ESS is installed in a location other than as defined in Section R330.8.1 and is subject to vehicle damage, impact protection shall be provided in accordance with Section R330.8.3 .					
R330.8.3	Energy Storage Systems	Aligns with IFC changes. The intent is to provide clear methods for providing vehicle impact protection.	No	NO	

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
R330.8.3 Impact protection options. ESS protection shall comply with one of the following: 1. Bollards constructed in accordance with one of the following: 1.1. Minimum 48 inches (1219 mm) in length by 3 inches (76 mm) in diameter Schedule 80 steel pipe embedded in a concrete pier not less than 12 inches (305 mm) deep and 6 inches (152 mm) in diameter, with not less than 36 inches (914 mm) of pipe exposed, filled with concrete and spaced at a maximum interval of 5 feet (1524 mm). Each bollard shall be located not less than 6 inches (152 mm) from an ESS. 1.2. Minimum 36 inches (914 mm) in height by 3 inches (76 mm) in diameter Schedule 80 steel pipe fully welded to a steel plate not less than 8 inches (203 mm) in length by 1/4 inch (6.4 mm) in thickness and bolted to a concrete floor by means of 4 1/2-inch (114 mm) concrete anchors imbedded not less than 3 inches (76 mm). Spacing shall be not greater than 60 inches (1524 mm), and each bollard shall be located not less than 6 inches (152 mm) from the ESS. 1.3. Premanufactured steel pipe bollards filled with concrete and anchored in accordance with the manufacturer's installation instructions, with spacing not greater than 60 inches (1524 mm). Each bollard shall be located not less than 6 inches (152 mm) from the ESS. 2. Wheel barriers constructed in accordance with one of the following: 2.1. Concrete or polymer 4 inches (102 mm) in height by 5 inches (127 mm) in width by 70 inches (1778 mm) in length, anchored to the concrete floor not less than every 36 inches (914 mm) and located not less than 54 inches (1372 mm) from the ESS. Concrete anchors not less than 3 1/2 inches (89 mm) in diameter with 3-inch (76 mm) embedment per barrier shall be used. Spacing between barriers shall be not greater than 36 inches (914 mm). 2.2. Premanufactured wheel barriers shall be anchored in accordance with the manufacturer's installation instructions. 3. <i>An approved</i> method designed to resist an impact of 2,000 pounds per square foot (95 760 N/m²) in the direction of travel at 24 inches (610 mm) above <i>grade</i>.					

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
CHAPTER 4 FOUNDATIONS					
R401.4	General	For consistency with the IBC and ASCE 7, this proposal expands the already required geotechnical investigation to include determination of the Site Class and short-period spectral response acceleration	Increase, See RB164-22	NO	
R401.4 Soil tests. Where quantifiable data created by accepted soil science methodologies indicate <i>expansive soils</i>, <i>compressible soils</i>, shifting soils or other questionable soil characteristics are likely to be present, the <i>building official</i> shall determine whether to require a soil test to determine the soil's characteristics at a particular location. This test shall be done by an <i>approved agency</i> using an <i>approved</i> method. <i>Where the seismic design category in accordance with Section R301.2.2.1 is C or greater and where soil testing is performed, the geotechnical report shall include the determination of the site class and the short-period spectral response acceleration, S_{DS}, in accordance with Section 1613 of the <i>International Building Code</i>. The seismic design category shall be assigned in accordance with Table R301.2.2.1.1.</i>					

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
T R401.4.1(2)	General	A column is added providing U.S. Department of Agriculture (USDA) soil classifications in addition to the traditional Unified Soil Classification System	Increase, See RB165-22	NO	

TABLE R401.4.1(2)

PROPERTIES OF SOILS CLASSIFIED ACCORDING TO THE UNIFIED SOIL CLASSIFICATION SYSTEM

SOIL GROUP	UNIFIED SOIL CLASSIFICATION SYSTEM SYMBOL	SOIL DESCRIPTION	USDA TEXTURAL SOIL CLASSIFICATION	DRAINAGE CHARACTERISTICS ^a	FROST HEAVE POTENTIAL	VOLUME CHANGE POTENTIAL EXPANSION ^b
Group I	GW	Well-graded gravels, gravel sand mixtures, little or no fines	N/A	Good	Low	Low
	GP	Poorly graded gravels or gravel sand mixtures, little or no fines	N/A	Good	Low	Low
	SW	Well-graded sands, gravelly sands, little or no fines	N/A	Good	Low	Low
	SP	Poorly graded sands or gravelly sands, little or no fines	Sand	Good	Low	Low
	GM	Silty gravels, gravel-sand-silt mixtures	N/A	Good	Medium	Low
	SM	Silty sand, sand-silt mixtures	Loamy sand, sandy loam	Good	Medium	Low
Group II	GC	Clayey gravels, gravel-sand-clay mixtures	N/A	Medium	Medium	Low
	SC	Clayey sands, sand-clay mixture	Sandy clay loam, sandy clay	Medium	Medium	Low
	ML	Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity	Silt, silt loam	Medium	High	Low
	CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays	Loam, clay loam, silty clay loam	Medium	Medium	Medium to Low
Group III	CH	Inorganic clays of high plasticity, fat clays	Clay, silty clay	Poor ^c	Medium	High
	MH	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts	N/A	Poor ^c	High	High
Group IV	OL	Organic silts and organic silty clays of low plasticity	N/A	Poor ^c	Medium	Medium
	OH	Organic clays of medium to high plasticity, organic silts	N/A	Unsatisfactory ^c	Medium	High
	Pt	Peat and other highly organic soils	N/A	Unsatisfactory ^c	Medium	High

For SI: 1 inch = 25.4 mm.

N/A = Not Applicable.

a. The percolation rate for good drainage is over 4 inches per hour; medium drainage is 2 inches to 4 inches per hour, and poor is less than 2 inches per hour.

b. Soils with a low potential expansion typically have a plasticity index (PI) of 0 to 15, soils with a medium potential expansion have a PI of 10 to 35 and soils with a high potential expansion have a PI greater than 20.

c. Unsuitable as backfill material.

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
R403.1.1	Footings	Allows Crushed stone footings provisions to also be used for masonry foundations and cast-in-place concrete foundations. See Existing Amendment Report	Decrease, See RB166-22	Modify Existing Amendment	TAG Propos24-GP2-052
R403.1.1 Minimum size. The minimum width, W, and thickness, T, for concrete footings shall be in accordance with Tables R403.1(1) through R403.1(3) and Figure R403.1(1) or R403.1.3, as applicable, but not less than 12 inches (305 mm) in width and 6 inches (152 mm) in depth. The footing width shall be based on the load-bearing value of the soil in accordance with Table R401.4.1(1). Footing projections, P, shall be not less than 2 inches (51 mm) and shall not exceed the thickness of the footing. Footing thickness and projection for fireplaces shall be in accordance with Section R1001.2. 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(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). Footings for precast foundations shall be in accordance with the details set forth in Section R403.4, Table R403.4, and Figures R403.4(1) and R403.4(2). Crushed stone footings for cast-in-place concrete foundations shall be in accordance with Section R403.5.					

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
T R403.1.2	Footings	Provides editorial clarification of existing provisions for required footing locations	No	NO	

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
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TABLE R403.1.2
CONTINUOUS FOOTING REQUIREMENTS IN SEISMIC DESIGN CATEGORIES D₀, D₁ AND D₂

BUILDING PLAN DIMENSIONS	1-STORY						2-STORY						3-STORY	
	50 feet or less			> 50 feet			50 feet or less			> 50 feet			Any	
SDC	D ₀	D ₁	D ₂	D ₀	D ₁	D ₂	D ₀	D ₁	D ₂	D ₀	D ₁	D ₂	D ₀	D ₁
Continuous footings supporting exterior walls	R	R	R	R	R	R	R	R	R	R	R	R	R	R
Continuous footings supporting required interior braced wall panels	NR	NR	NR	R ^a	R ^a	R ^a	NR	NR	R ^a	R ^a	R ^a	R ^a	R	R

For SI: 1 foot = 304.8 mm.

R = Continuous solid or fully grouted masonry or concrete footings in accordance with [Section R403.1.3.4](#) required.

NR = Continuous footings not required.

a. Buildings shall be permitted to have interior braced wall panels supported on continuous foundations at intervals not exceeding 50 feet, provided that the following conditions are all met:

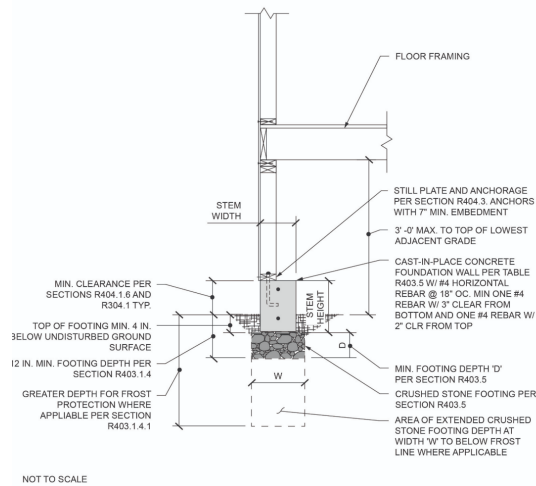
1. The height of cripple walls does not exceed 4 feet.
2. First-floor braced wall panels are supported on doubled floor joists, continuous blocking or floor beams.
3. The distance between bracing lines does not exceed twice the building width measured parallel to the braced wall line.

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
R403.5	Footings	Allows Crushed stone footings provisions to also be used for masonry foundations and cast-in-place concrete foundations.	Decrease, See RB166-22	NO	

R403.5 Crushed stone footings for cast-in-place concrete foundations.

Crushed stone footings in accordance with [Section R403.4.1](#) shall be permitted for nonretaining cast-in-place concrete foundations complying with [Section R404.1.3](#) and this section. The footing and foundation wall shall be installed in accordance with [Figure R403.5\(1\)](#), or [Figure R403.5\(2\)](#) and [Table R403.5](#), or [Figure R403.5\(3\)](#). Crushed stone footings for cast-in-place concrete foundations shall be permitted for townhouses in *Seismic Design Categories A and B* and one- and two-family *dwellings* in *Seismic Design Categories A, B and C*.

F R403.5(1)	Footings	New Figure to go with R403.5	Decrease, See RB166-22	NO	
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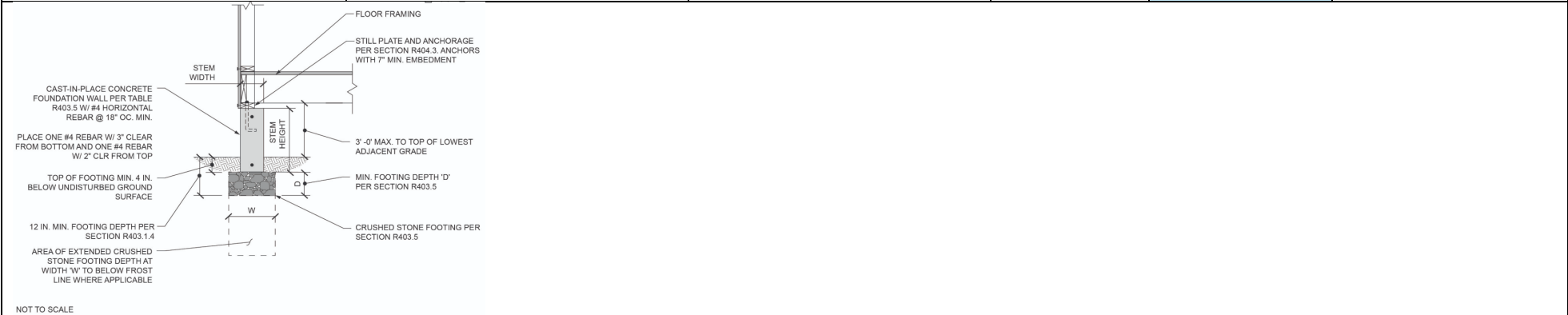


For SI: 1 inch = 25.4 mm, 1 foot = 304.5 mm.

FIGURE R403.5(1)

CRUSHED STONE FOOTINGS FOR CAST-IN-PLACE CONCRETE FOUNDATIONS IN SEISMIC DESIGN CATEGORIES A, B, AND C AND WIND EXPOSURE CATEGORIES B, C, AND D: CAST-IN-PLACE CONCRETE FOUNDATION WALL WITH WOOD CRIPPLE WALL

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
F R403.5(2)	Footings	New Figure to go with R403.5	Decrease, See RB166-22	NO	



For SI: 1 inch = 25.4 mm, 1 foot = 304.5 mm.

FIGURE R403.5(2)

CRUSHED STONE FOOTINGS FOR CAST-IN-PLACE CONCRETE FOUNDATIONS IN SEISMIC DESIGN CATEGORIES A, B, AND C AND WIND EXPOSURE CATEGORIES B, C, AND D: CONCRETE SLAB-ON-GROUND WITH TURNED DOWN FOUNDATION CAST-IN-PLACE CONCRETE FOUNDATION WALL WITH NO CRIPPLE WALL ABOVE

F R403.5(3)	Footings	New Figure to go with R403.5	Decrease, See RB166-22	NO	
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For SI: 1 inch = 25.4 mm, 1 foot = 304.5 mm.

FIGURE R403.5(3)

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
CRUSHED STONE FOOTINGS FOR CAST-IN-PLACE CONCRETE FOUNDATIONS IN SEISMIC DESIGN CATEGORIES A, B, AND C AND WIND EXPOSURE CATEGORIES B, C, AND D: CONCRETE SLAB-ON-GROUND WITH TURNED DOWN FOUNDATION					
T R403.5	Footings	Addresses the out-of-plane resistance concern raised by FEMA	Decrease, See RB166-22	NO	

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
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TABLE R403.5
MINIMUM CAST-IN-PLACE CONCRETE FOUNDATION WALL DIMENSIONS, REINFORCEMENT AND MAXIMUM BRACED WALL LINE SPACING

WIND EXPOSURE CATEOGRY	ULTIMATE DESIGN WIND SPEED (miles per hour)	MINIMUM STEM WALL WIDTH (inches)	MINIMUM STEM WALL HEIGHT (inches)	MINIMUM HORIZONTAL REBAR	MAXIMUM BRACED WALL LINE SPACING (feet)
B	< 140	6	12	(2) - #4	28
C and D	< 140	8	18	(3) - #4	25

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 mph = 0.447 m/s.

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
CHAPTER 5 FLOORS					
R502.3.3	Wood Floor Framing	Editorial. Moving text from Footnote	No	NO	
R502.3.3 Floor cantilevers. Floor cantilever spans shall not exceed the nominal depth of the wood floor joist. Floor cantilevers constructed in accordance with Table R502.3.3(1) shall be permitted where supporting a light-frame bearing wall and roof only. Floor cantilevers constructed in accordance with Table R502.3.3(2) shall be permitted where supporting an exterior balcony. A full-depth rim joist shall be provided at the unsupported end of the cantilever joists. Solid blocking shall be provided at the support for the cantilever. Where the cantilever length is 24 inches (610 mm) or less and the building is assigned to Seismic Design Category A, B or C, solid blocking at the support for the cantilever shall not be required.					
R502.11	Wood Floor Framing	Prohibits the use of I-joists and trusses <i>as edge framing members supporting guards except where the effects of the guard loads are specifically considered in the design of the edge member.</i>	Decrease, See RB173-22	NO	
R502.11 Floor framing supporting guards. The framing at the open edge of a floor supporting a required <i>guard</i> assembly shall be constructed in accordance with Section R502.11.1 or R502.11.2 for <i>guard</i> assemblies not exceeding 44 inches (1118 mm) in height, or shall be designed in accordance with accepted engineering practice to support the <i>guard</i> assembly. Where trusses and I-joists are used as edge framing members supporting <i>guards</i> , the effects of the guard loads shall be specifically considered in the design of the edge member.					
R502.11.1	Wood Floor Framing	Describes the minimal thickness to resist withdrawal of fasteners	Decrease, See RB173-22	NO	

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
R502.11.1 Conventional edge framing. Where a roll brace is aligned with each <i>guard</i> post, the framing at the edge of the floor shall consist of a solid or built-up member of lumber, structural glued-laminated timber or structural composite lumber having a net width of not less than 3 inches (76 mm) and a net depth of not less than 9 ¹ / ₄ inches (235 mm), and shall be braced to resist rotation by roll bracing as described in Section R502.11.3 .					
R502.11.2	Wood Floor Framing	Allows use of a thicker timber or glulam which is sized to resist torsion allowing roll bracing to be spaced at a maximum distance of 48 inches on center to alleviate the need for precise alignment of the post with the roll bracing or a joist.	Decrease, See RB173-22	NO	
R502.11.2 Timber edge framing. Where a roll brace is not aligned with each <i>guard</i> post, the framing at the edge of the floor shall consist of sawn timber not less than 6 inches by 10 inches or structural glued-laminated timber not less than 5 ¹ / ₈ inches by 9 ¹ / ₄ inches (130 mm × 235 mm) and shall be braced to resist rotation by roll bracing as described in Section R502.11.3 at intervals of 48 inches (1219 mm) or less.					
R501.11.3	Wood Floor Framing	Provides Roll Bracing Specifications	Decrease, See RB173-22	NO	
R502.11.3 Roll bracing. Each roll brace shall be a joist or blocking matching the depth of the edge member and extending perpendicular to the edge member not less than 16 inches (406 mm) from the edge. Blocking shall have end connections with not fewer than six 16d common nails. Floor sheathing shall be continuous for not less than 24 inches (610 mm) from the edge and shall be fastened to each roll brace with not fewer than 12 (twelve) 10d common nails and shall be fastened to the edge member with a minimum of 12 (twelve) 10d common nails within 12 inches (305 mm) of the roll brace.					
R506.2	Concrete Floors (On Ground)	Adds Standard PTI DC10.5 for Post Tensioned Slabs	No	NO	

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
R506.2 Post-tensioned slab-on-ground floors. Post-tensioned concrete slab-on-ground floors placed on expansive or stable soils shall be designed in accordance with PTI DC10.5					
R506.3.3	Concrete Floors (On Ground)	Returns Vapor Retarder thickness to 2018 Req. 10 mil is intended for commercial/Industrial Buildings	Decrease	NO	
R506.3.3 Vapor retarder. A minimum 6 mil (0.006 inch; 152 µm) polyethylene or approved vapor retarder with joints lapped not less than 6 inches (152 mm) shall be placed between the concrete floor slab and the base course or the prepared subgrade where a base course does not exist. Exception: The vapor retarder is not required for the following: 1. Garages, utility <i>buildings</i> and other unheated <i>accessory structures</i>. 2. For unheated storage rooms having an area of less than 70 square feet (6.5 m²) and carports. 3. Driveways, walks, patios and other flatwork not likely to be enclosed and heated at a later date. 4. Where <i>approved</i> by the <i>building official</i>, based on local site conditions.					
R507.2.3	Exterior Decks	Added language aligns with National Design Specification for Wood Construction Reqs.	No	NO	
R507.2.3 Fasteners and connectors. Metal fasteners and connectors used for all decks shall be in accordance with Section R304.3 and Table R507.2.3 . Holes for through bolts shall be drilled to a diameter of 1/32 inch to 1/16 inch larger than the bolt diameter. Connectors shall be installed in accordance with the manufacturer's approved instructions.					
R507.2.4	Exterior Decks	Adds Standard for Self-Adhered Membranes. Already in Ch 7	No	NO	

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
R507.2.4 Flashing. Flashing shall be corrosion-resistant metal of nominal thickness not less than 0.019 inch (0.48 mm) or <i>approved</i> nonmetallic material that is compatible with the substrate of the structure and the decking materials. Self-adhered membranes used as flashing and counterflashing shall comply with FGIA 711.					
R507.5	Exterior Decks	New clarifying language. See Existing Amendment Report.	No	Incorporate into Existing Amendment	
R507.5 Deck beams. Maximum allowable spans for wood deck beams, as shown in Figure R507.5 , shall be in accordance with Tables R507.5(1) through R507.5(4) and based on the joist span length and cantilever length as shown in Figure R507.6 . Beam plies shall be fastened together with two rows of 10d (3-inch × 0.128-inch) nails minimum at 16 inches (406 mm) on center along each edge. Deck beams of other materials shall be permitted where designed in accordance with accepted engineering practices.					
T R507.5(1-4)	Exterior Decks	Tables Not Adopted	No	NO	
Tables Not Adopted					
R507.5.1	Exterior Decks	Each end of each ply of a multi-ply (“built-up”) beam must be supported on a bearing location.	No	NO	
R507.5.1 Deck beam bearing. Beams and individual beam plies of built-up beams shall be continuous between bearing locations and continuous across bearing locations supporting beam cantilevers. Beams shall be permitted to cantilever beyond bearing locations up to one-fourth of the actual beam span. The ends of beams shall have not less than 1½ inches (38 mm) of bearing length on wood or metal and not less than 3 inches (76 mm) of bearing length on concrete or masonry for the entire width of the beam.					
R507.9.1.3	Exterior Decks	Added language aligns with National Design Specification for Wood Construction Reqs.	No	NO	

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
R507.9.1.3 Ledger to band joist details. Where ledgers are fastened in accordance with Table R507.9.1.3(1), fasteners shall comply with Section R507.2.3 and shall be installed in accordance with Table R507.9.1.3(2) and Figures R507.9.1.3(1) and R507.9.1.3(2). Holes for 1/2-inch (12.7 mm) lag screws shall be predrilled with two drill bits so that a hole 1/2 inch (12.7mm) in diameter is drilled through the ledger and sheathing, if present, and a hole 5/16 inch (7.9 mm) to 3/8 inch (9.5mm) in diameter is drilled through the band joist.					
R507.9.1.5	Exterior Decks	Adds Specific Details for Deck Ledger Flashing	Increase, See RB190-22	NO	
R507.9.1.5 Ledger flashing. Where ledgers are attached to wood-frame construction, flashing shall be installed above the ledger to prevent the entry of water into the wall cavity or behind the ledger. Flashing shall extend vertically not less than 2 inches (51 mm) above the ledger. Flashing shall extend horizontally not less than 4 inches (102 mm) beyond the ledger face or shall extend to the ledger face and not less than 1/4 inch down the ledger face. Exceptions: 1.Where a window or door opening is located less than 2 inches (51 mm) above the ledger, flashing shall extend to the bottom of the wall opening. 2.Flashings is not required where the ledger is spaced horizontally from the <i>exterior wall covering</i> not less than 1/4 inch (6.4 mm) to allow for drainage and ventilation behind the ledger.					
R507.9.1.6	Exterior Decks	Adds Specific Details for Deck Ledger Flashing	Increase, See RB190-22	NO	

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
R507.9.1.6 Water-resistive barrier. The water-resistive barrier required by Section R703.2 shall be lapped over a vertical leg of the ledger flashing or counterflashing extending up the wall by not less than 2 inches (51 mm) or the height of the vertical flashing leg, whichever is less. The <i>water-resistive barrier</i> shall continue from the top of the ledger flashing down the wall and behind the ledger flashing and ledger. Exceptions: 1. Flashing shall be permitted to be placed against the face of the <i>water-resistive barrier</i> where a self-adhering membrane counterflashing is installed not less than 2 inches (51 mm) over the vertical leg of the flashing and not less than 2 inches (51 mm) onto the <i>water-resistive barrier</i>. 2. Flashing shall be permitted to be placed in front of the <i>water-resistive barrier</i> and behind the <i>exterior wall covering</i> where ledgers are spaced horizontally from the exterior wall not less than 1/4 inch (6.4 mm) to allow for drainage and ventilation behind the ledger.					
R507.9.1.7	Exterior Decks	Adds Specific Details for Deck Ledger Flashing	Increase, See RB190-22	NO	
R507.9.1.7 Existing walls. Where ledgers are attached to existing walls without water-resistive barriers, a <i>water-resistive barrier</i> shall be installed behind the ledger and ledger flashing. The <i>water-resistive barrier</i> shall extend to the top of the ledger flashing vertical leg and not less than 1/2 inch (12.7 mm) beyond the sides and bottom of the ledger. A self-adhering membrane counterflashing shall be installed not less than 2 inches (51 mm) over the vertical leg of the ledger flashing and not less than 2 inches (51 mm) onto the existing sheathing. Exceptions: 1. Where a window or door opening is located less than 2 inches (51 mm) above the ledger, flashing shall extend to the bottom of the wall opening. 2. Flashing is not required where the ledger is spaced horizontally from the <i>exterior wall covering</i> not less than 1/4 inch (6.4 mm) to allow for drainage and ventilation behind the ledger.					
R507.9.1.8	Exterior Decks	Adds Specific Details for Deck Ledger Flashing	Increase, See RB190-22	NO	

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
R507.9.1.8 Exterior wall coverings. <i>Exterior wall coverings</i> shall be terminated above the finished deck surface in accordance with the covering manufacturer's requirements and Chapter 7 , as applicable to the type of covering. Exception: <i>Exterior wall coverings</i> shall be permitted behind ledgers in accordance with Section R507.9.1.5 where capable of resisting compression forces from the ledger attachment.					
CHAPTER 6 WALL COVERING					
T R602.3(1) Footnote f.	Wood Wall Framing	Specifies use of RSRS-03 Nail where Roof sheathing is attached to framing having a specific gravity greater than 0.35 but less than 0.42.	Increase, See RB193-22	NO	
f. For wood structural panel roof sheathing attached to gable end roof framing and to intermediate supports within 48 inches of roof edges and ridges, nails shall be spaced at 4 inches on center where the ultimate design wind speed is greater than 130 mph in Exposure B or greater than 110 mph in Exposure C. Fastener spacing applies where roof framing specific gravity is 0.42 or larger. Where roof framing specific gravity is greater than or equal to 0.35 but less than 0.42 in accordance with AWC NDS, fastening of roof sheathing shall be with RSRS-03 (2½" × 0.131" × 0.281" head) nails.					
T R602.3(2) Footnote g.	Wood Wall Framing	Limits alternate fasteners for roof sheathing to wood species having a specific gravity of 0.42 or greater	No	NO	
g. Alternate fastening is only permitted for roof sheathing where the ultimate design wind speed is less than or equal to 110 mph, and where fasteners are installed 3 inches on center at all supports, and where fastening is to wood framing of a species with specific gravity greater than or equal to 0.42 in accordance with AWC NDS.					
T R602.3(3) Footnote d.	Wood Wall Framing	For WSP maximum nail spacing of 8in when framing wood species has	Increase, See RB195-22	NO	

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
		specific gravity of greater than 0.35 but less than 0.42.			
d. Fastener spacing applies where wall framing specific gravity is 0.42 or larger. Where wall framing specific gravity is greater than or equal to 0.35 but less than 0.42 in accordance with AWC NDS , maximum nail spacing in the field of the panel shall be 8 inches.					
R602.7.2	Wood Wall Framing	Corrects the number of full-height studs required at the edge of openings using rim board headers.	Increase, See RB197-22	NO	
R602.7.2 Rim board headers. Rim board header size, material and span shall be in accordance with Table R602.7(1) . Rim board headers shall be constructed in accordance with Figure R602.7.2 and shall be supported at each end by full-height studs. The number of full-height studs at each end shall be not less than one plus the number of studs displaced by half of the header span based on the maximum stud spacing in accordance with Table R602.3(5) . Rim board headers supporting concentrated loads shall be designed in accordance with accepted engineering practice.					
R602.10.3.1	Wood Wall Framing	Clarifies how to determine the vertical dimension of the wall height for wood stud framing. New Figure 602.10.3.1	No	NO	
R602.10.3.1 Wall height for wood framing. For determination of braced wall and panel adjustment factors in accordance with Section R602.10 , wall height shall be the vertical distance from the lower edge of the bottom plate to the upper edge of the upper top plate determined in accordance with Figure R602.10.3.1 .					
R602.10.6	Wood Wall Framing	Since the full length of the header is taking shear loads out of the top plate, the edge of the portal is the end of the header.	No	NO	

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
R602.10.6 Construction of Methods ABW, PFH, PFG, CS-PF and BV-WSP. Methods ABW, PFH, PFG, CS-PF and BV-WSP shall be constructed as specified in Sections R602.10.6.1 through R602.10.6.5 . For the purposes of determining braced wall panel spacing and end distance, the edge of Methods PFH, PFG and CS-PF shall be defined as the end of the header.					
CHAPTER 7 WALL COVERING					
R702.7	Interior Covering	Coordinates installation of vapor retarders between Part II and Part IV of the IRC. Chapter 11 not adopted	No	NO	
R702.7 Vapor retarders. Vapor retarder materials shall be classified in accordance with Table R702.7(1) . A vapor retarder shall be provided on the interior side of frame walls of the class indicated in Table R702.7(2) , including compliance with Table R702.7(3) or R702.7(4) where applicable. An <i>approved</i> design using accepted engineering practice for hygrothermal analysis shall be permitted as an alternative. Vapor retarders shall be installed in accordance with Section R702.7.2. The <i>climate zone</i> shall be determined in accordance with Section N1101.7 . Exceptions: 1.<i>Basement walls.</i> 2.Below-grade portion of any wall. 3.Construction where accumulation, condensation or freezing of moisture will not damage the materials. 4.A vapor retarder shall not be required in <i>Climate Zones</i> 1, 2 and 3. 5.In Climate Zones 4 through 8, a vapor retarder shall not be required where the assembly complies with Table R702.7(5).					
T R702.7(2)	Interior Covering	Adds responsive / Class I Vapor Retarders to the section	No	NO	

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation						
TABLE R702.7(2)VAPOR RETARDER OPTIONS CLIMATE ZONE VAPOR RETARDER CLASS CLASS I^a CLASS II^a CLASS III 1, 2 Not Permitted Not Permitted Permitted 3, 4 (except Marine 4) Not Permitted Permitted^c Permitted Marine 4, 5, 6, 7, 8 Permitted^{b, c} Permitted^c See Table R702.7(3) a. A responsive vapor retarder shall be allowed on the interior side of any frame wall in all climate zones. b. In frame walls, use of a Class I vapor retarder that is not a responsive vapor retarder on the interior side with a Class I vapor retarder on the exterior side shall require an approved design. c. Where a Class I or II vapor retarder is used in combination with foam plastic insulating sheathing or insulated siding installed as continuous insulation on the exterior side of frame walls, the continuous insulation shall comply with Table R702.7(4) and the Class I or II vapor retarder shall be a responsive vapor retarder.						T R702.7(4)	Interior Covering	Adds Class I Responsive Vapor Retarders to Table Title	No	NO	
TABLE R702.7(4) CONTINUOUS INSULATION WITH CLASS I OR II RESPONSIVE VAPOR RETARDER CLIMATE ZONE PERMITTED CONDITIONS ^a 3 Continuous insulation with <i>R</i>-value ≥ 2. 4, 5 and 6 Continuous insulation with <i>R</i>-value ≥ 3 over 2 × 4 wall. Continuous insulation with <i>R</i>-value ≥ 5 over 2 × 6 wall. 7 Continuous insulation with <i>R</i>-value ≥ 5 over 2 × 4 wall. Continuous insulation with <i>R</i>-value ≥ 7.5 over 2 × 6 wall. 8 Continuous insulation with <i>R</i>-value ≥ 7.5 over 2 × 4 wall. Continuous insulation with <i>R</i>-value ≥ 10 over 2 × 6 wall.						T R702.7(5)	Interior Covering	Adds new option to control water vapor using exterior continuous insulation	No	NO	

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation												
TABLE R702.7(5) CONTINUOUS INSULATION ON WALLS WITHOUT A CLASS I, II OR III INTERIOR VAPOR RETARDER^a																	
<table><tr><th>CLIMATE ZONE</th><th>PERMITTED CONDITIONS^{b, c}</th></tr><tr><td>4</td><td>Continuous insulation with <i>R</i>-value ≥ 4.5</td></tr><tr><td>5</td><td>Continuous insulation with <i>R</i>-value ≥ 6.5</td></tr><tr><td>6</td><td>Continuous insulation with <i>R</i>-value ≥ 8.5</td></tr><tr><td>7</td><td>Continuous insulation with <i>R</i>-value ≥ 11.5</td></tr><tr><td>8</td><td>Continuous insulation with <i>R</i>-value ≥ 14</td></tr></table>						CLIMATE ZONE	PERMITTED CONDITIONS ^{b, c}	4	Continuous insulation with <i>R</i> -value ≥ 4.5	5	Continuous insulation with <i>R</i> -value ≥ 6.5	6	Continuous insulation with <i>R</i> -value ≥ 8.5	7	Continuous insulation with <i>R</i> -value ≥ 11.5	8	Continuous insulation with <i>R</i> -value ≥ 14
CLIMATE ZONE	PERMITTED CONDITIONS ^{b, c}																
4	Continuous insulation with <i>R</i> -value ≥ 4.5																
5	Continuous insulation with <i>R</i> -value ≥ 6.5																
6	Continuous insulation with <i>R</i> -value ≥ 8.5																
7	Continuous insulation with <i>R</i> -value ≥ 11.5																
8	Continuous insulation with <i>R</i> -value ≥ 14																
a. The total insulating value of materials to the interior side of the exterior continuous insulation, including any cavity insulation, shall not exceed R-5. Where the <i>R</i>-value of materials to the interior side of the exterior continuous insulation exceeds R-5, an approved design shall be required. b. A water vapor control material layer having a permeance not greater than 1 perm in accordance with ASTM E96 Procedure A (dry cup) shall be placed on the exterior side of the wall and to the interior side of the exterior continuous insulation. The exterior continuous insulation shall be permitted to serve as the vapor control layer where, at its installed thickness or with a facer on its interior face, the exterior continuous insulation is a Class I or II vapor retarder. c. The requirements in this table apply only to insulation used to control moisture in order to allow walls without a Class I, II or III interior vapor retarder. The insulation materials used to satisfy this option also contribute to but do not supersede the thermal envelope requirements of the International Energy Conservation Code.																	
R702.7.2	Interior Covering	New Section. Clarifies Vapor Retarder Installation.	No	YES													

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
		Need to change reference to Ch 11 to WSEC-R			
R702.7.2 Vapor retarder installation. Vapor retarders shall be installed in accordance with the manufacturer’s instructions, accepted installation methods or an <i>approved</i> design. Where a vapor retarder also functions as a component of a continuous <i>air barrier</i>, the vapor retarder shall be installed as an <i>air barrier</i> in accordance with Section N1102.5.1.1.					
R703.2	Exterior Wall Covering	Where WRB Serves as Air barrier it must also comply with Energy Provisions. Allow Foam Plastics to be	No	YES	

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
		used as WRB. Also adds exception for detached unconditioned accessory structures. Need to change reference to Ch 11 to WSEC-R			
R703.2 Water-resistive barrier. Not fewer than one layer of <i>water-resistive barrier</i> shall be applied over studs or sheathing of all exterior walls with flashing as indicated in Section R703.4, in such a manner as to provide a continuous <i>water-resistive barrier</i> behind the exterior wall veneer and behind deck ledgers. The <i>water-resistive barrier</i> material shall be continuous to the top of walls and terminated at penetrations and building appendages in a manner to meet the requirements of the exterior wall envelope as described in Section R703.1. Where the water-resistive barrier also functions as a component of a continuous air barrier, the water-resistive barrier shall be installed as an air barrier in accordance with Section N1102.5.1.1. <i>Water-resistive barrier</i> materials shall comply with one of the following: 1.No. 15 felt complying with ASTM D226, Type 1. 2.ASTM E2556, Type 1 or 2. 3.Foam plastic insulating sheathing water-resistive barrier systems complying with Section R703.1.1 and installed in accordance with the manufacturer's installation instructions. 4.ASTM E331 in accordance with Section R703.1.1. 5.Other <i>approved</i> materials in accordance with the manufacturer's installation instructions. No.15 asphalt felt and <i>water-resistive barriers</i> complying with ASTM E2556 shall be applied horizontally, with the upper layer lapped over the lower layer not less than 2 inches (51 mm), and where joints occur, shall be lapped not less than 6 inches (152 mm). Exception: A water-resistive barrier shall not be required in unconditioned detached tool sheds, storage sheds, playhouses, and other similar accessory structures provided all of the following requirements are met: 1.Exterior wall covering is limited to siding that is attached direct to studs. 2.Exterior walls are uninsulated. 3.Interior side of exterior walls has no wall covering or wall finishes.					
R703.3.1	Exterior Wall Covering	This is a common practice but worth noting in the code to ensure proper	No	NO	

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
		siding performance and moisture / heat issues.			
R703.3.1 Siding clearance at wall and adjacent surfaces. Unless otherwise specified by the cladding manufacturer or this code, polypropylene, insulated vinyl and vinyl <i>claddings</i> shall have clearance of not less than 6 inches (152 mm) from the ground and not less than 1/2 inch (13 mm) from other adjacent surfaces (decks, roofs, slabs).					
R703.6.1	Exterior Wall Covering	Provides an alternative horizontal furring installation that provides a gap for drainage and ventilation for vertical furring installed over a nonpermeable WRB.	Decrease, See RB222-22	NO	
R703.6.1 Application. Wood shakes or shingles shall be applied either single course or double course over nominal 1/2-inch (12.7 mm) wood-based sheathing or to furring strips over 1/2-inch (12.7 mm) nominal nonwood sheathing. A <i>water-resistive barrier</i> shall be provided in accordance with Section R703.2 . Where horizontal furring strips are used, they shall be 1 inch by 3 inches or 1 inch by 4 inches (25 mm by 76 mm or 25 mm by 102 mm) and shall be fastened to the studs with minimum 7d or 8d box nails and shall be spaced a distance on center equal to the actual weather exposure of the shakes or shingles, not to exceed the maximum exposure specified in Table R703.6.1 . When installing shakes or shingles over a nonpermeable <i>water-resistive barrier</i> , furring strips shall be placed first vertically over the water-resistive barrier and in addition, horizontal furring strips shall be fastened to the vertical furring strips prior to attaching the shakes or shingles to the horizontal furring strips. Alternatively, horizontal furring shall be gapped not less than 3/16 inch from the surface of the water-resistive barrier without the requirement for a vertical furring strip. Where installed over foam plastic insulating sheathing, furring attachments shall comply with Section R703.15, R703.16 or R703.17. The spacing between adjacent shingles to allow for expansion shall be 1/8 inch (3.2 mm) to 1/4 inch (6.4 mm) apart, and between adjacent shakes shall be 3/8 inch (9.5 mm) to 1/2 inch (12.7 mm) apart. The offset spacing between joints in adjacent courses shall be not less than 1 1/2 inches (38 mm).					
R703.7.3	Exterior Wall Covering	This change expands explicit drainage to stucco systems applied over any exterior sheathing and	Increase, See S240-22 PtlI	NO	

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
		recognizes materials that are not impacted			
R703.7.3 Water-resistive barriers. Water-resistive barriers shall be installed as required in Section R703.2 and shall comply with Section R703.7.3.1 or R703.7.3.2 . Exception: Sections R703.7.3.1 and R703.7.3.2 shall not apply to construction where accumulation, condensation or freezing of moisture will not damage the materials.					
R703.7.3.1	Exterior Wall Covering	Clarifies the Dry Climate Option 2 to emphasize that a means of drainage is included in the design of the water-resistive barrier system.	No	NO	
R703.7.3.1 Dry climates. In Dry (B) <i>climate zones</i> indicated in Figure N1101.7 , <i>water-resistive barriers</i> shall comply with one of the following: 1.The <i>water-resistive barrier</i> shall be two layers of 10-minute Grade D paper or have a water resistance equal to or greater than two layers of a <i>water-resistive barrier</i> complying with ASTM E2556, Type I. The individual layers shall be installed independently such that each layer provides a separate continuous plane. Flashing installed in accordance with Section R703.4 and intended to drain to the <i>water-resistive barrier</i> shall be directed between the layers. 2.The <i>water-resistive barrier</i> shall be 60-minute Grade D paper or have a water resistance equal to or greater than one layer of a <i>water-resistive barrier</i> complying with ASTM E2556, Type II. The <i>water-resistive barrier</i> shall be separated from the stucco by a layer of foam plastic <i>insulating sheathing</i>, other non-water-absorbing layer, a drainage space or means of drainage complying with Section R703.7.3.2. Flashing installed in accordance with Section 703.4 and intended to drain to the <i>water-resistive barrier</i> shall be directed to the exterior side of the <i>water-resistive barrier</i>.					
R703.8.2.2	Exterior Wall Covering	Simplifies the installation of the flashing and the masonry veneer. Also	Decrease, See RB226-22	NO	

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
		Include 2 new Figures to accompany Section.			
R703.8.2.2 Support by ledger or roof construction. A steel angle shall be placed directly on top of the ledger or roof construction. The ledger or roof construction supporting the steel angle shall consist of not fewer than three 2-inch by 6-inch (51 mm × 152 mm) wood members for wood construction or three 550S162 cold-formed steel members for cold-formed steel <i>light frame construction</i>. The wood member abutting the vertical wall stud construction shall be anchored with not fewer than three ⁵/₈-inch (15.9 mm) diameter by 5-inch (127 mm) lag screws to every wood stud spacing. Each additional wood roof member shall be anchored by the use of two 10d nails at every wood stud spacing. A cold-formed steel member abutting the vertical wall stud shall be anchored with not fewer than nine No. 8 screws to every cold-formed steel stud. Each additional cold-formed steel roof member shall be anchored to the adjoining roof member using two No. 8 screws at every stud spacing. Not less than two-thirds the width of the masonry veneer thickness shall bear on the steel angle. Flashing and weep holes shall be located in the masonry veneer wythe in accordance with Figure R703.8.2.2(1) or R703.8.2.2(2). The maximum height of the masonry veneer above the steel angle support shall be 12 feet 8 inches (3861 mm). The airspace separating the masonry veneer from the wood backing shall be in accordance with Sections R703.8.4 and R703.8.4.2. The support for the masonry veneer shall be constructed in accordance with Figure R703.8.2.2(1) or R703.8.2.2(2). The maximum slope of a steel angle installed without stops shall be 7:12. A steel angle installed with a slope greater than 7:12 but not more than 12:12 shall have stops of a minimum 3-inch by 3-inch by ¹/₄-inch (76 mm × 76 mm × 6.4 mm) steel plate welded to the angle at 24 inches (610 mm) on center along the angle or as <i>approved</i> by the <i>building official</i>.					
T R703.8.3.1	Exterior Wall Covering	Provides steel angle lintel sizes for brick veneer made of nominal 3-inch wide masonry units	Decrease, See RB227-22	NO	

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation																														
TABLE R703.8.3.1ALLOWABLE SPANS FOR LINTELS SUPPORTING MASONRY VENEER ^{a, b, c, d}																																			
<table><tr><th>SIZE OF STEEL ANGLE^{a, c, d} (inches)</th><th>NO STORY ABOVE</th><th>ONE STORY ABOVE</th><th>TWO STORIES ABOVE</th><th>NO. OF 1/2-INCH OR EQUIVALENT REINFORCING BARS IN REINFORCED LINTEL^{b, d}</th></tr><tr><td>3 × 3 × 1/4</td><td>6'-0"</td><td>4'-6"</td><td>3'-0"</td><td>1</td></tr><tr><td>4 × 3 × 1/4</td><td>8'-0"</td><td>6'-0"</td><td>4'-6"</td><td>1</td></tr><tr><td>5 × 3 × 5/16 or 5 × 3 1/2 × 5/16</td><td>10'-0"</td><td>8'-0"</td><td>6'-0"</td><td>2</td></tr><tr><td>6 × 3 1/2 × 5/16 or 5 × 3 × 5/16 with two 9-gauge wires between first and second course</td><td>14'-0"</td><td>9'-6"</td><td>7'-0"</td><td>2</td></tr><tr><td>2-6 × 3 1/2 × 5/16</td><td>20'-0"</td><td>12'-0"</td><td>9'-6"</td><td>4</td></tr></table>						SIZE OF STEEL ANGLE ^{a, c, d} (inches)	NO STORY ABOVE	ONE STORY ABOVE	TWO STORIES ABOVE	NO. OF 1/2-INCH OR EQUIVALENT REINFORCING BARS IN REINFORCED LINTEL ^{b, d}	3 × 3 × 1/4	6'-0"	4'-6"	3'-0"	1	4 × 3 × 1/4	8'-0"	6'-0"	4'-6"	1	5 × 3 × 5/16 or 5 × 3 1/2 × 5/16	10'-0"	8'-0"	6'-0"	2	6 × 3 1/2 × 5/16 or 5 × 3 × 5/16 with two 9-gauge wires between first and second course	14'-0"	9'-6"	7'-0"	2	2-6 × 3 1/2 × 5/16	20'-0"	12'-0"	9'-6"	4
SIZE OF STEEL ANGLE ^{a, c, d} (inches)	NO STORY ABOVE	ONE STORY ABOVE	TWO STORIES ABOVE	NO. OF 1/2-INCH OR EQUIVALENT REINFORCING BARS IN REINFORCED LINTEL ^{b, d}																															
3 × 3 × 1/4	6'-0"	4'-6"	3'-0"	1																															
4 × 3 × 1/4	8'-0"	6'-0"	4'-6"	1																															
5 × 3 × 5/16 or 5 × 3 1/2 × 5/16	10'-0"	8'-0"	6'-0"	2																															
6 × 3 1/2 × 5/16 or 5 × 3 × 5/16 with two 9-gauge wires between first and second course	14'-0"	9'-6"	7'-0"	2																															
2-6 × 3 1/2 × 5/16	20'-0"	12'-0"	9'-6"	4																															
For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm. a. Long leg of the angle shall be placed in a vertical position. b. Depth of reinforced lintels shall be not less than 8 inches and all cells of hollow masonry lintels shall be grouted solid. Reinforcing bars shall extend not less than 8 inches into the support. c. Steel members indicated are adequate typical examples; other steel members meeting structural design requirements shall be permitted to be used. d. Use either steel angle or reinforced lintel to span opening.																																			
R703.11.1.1	Exterior Wall Covering	Starter strips, a critical installation element for vinyl siding sometime ignored by installers. Includes Figure to accompany Section.	No	NO																															
R703.11.1.1 Starter strip. The first course of horizontal siding shall be secured using a starter strip as specified in the manufacturer’s installation instructions. See Figure R703.11.1.1(1) . Where the first course of siding has to be cut or trimmed, the bottom edge shall be secured with utility <i>trim</i> and snap locks as specified by the manufacturer's installation instructions.																																			
R703.11.1.2	Exterior Wall Covering	Utility trim, a critical installation element for vinyl siding wind performance system is	No	NO																															

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
		sometime ignored by installers. Includes 2 Figures to accompany Section.			
R703.11.1.2 Utility trim. Where horizontal siding has to be cut or trimmed below windows and at the top of walls, the top edge of the siding shall be secured with utility <i>trim</i> and snap locks or as specified by the manufacturer's installation instructions. See Figures R703.11.1.2(1) and R703.11.1.2(2) .					
R703.14.1.1.1	Exterior Wall Covering	Cleans up the section on polypropylene siding.	No	NO	
R703.14.1.1.1 Starter strip. Horizontal siding shall be installed with a starter strip at the initial course at any location. Where the installation of a starter strip is not possible, other <i>approved</i> equivalents shall be permitted.					
R703.14.1.1.2	Exterior Wall Covering	Cleans up the section on polypropylene siding. Includes New Figure	No	NO	
R703.14.1.1.2 Under windows and top of walls. Where the nail hem is removed, such as under windows and at the top of walls, nail slot punch or predrilled holes shall be constructed as shown in Figure R703.14.1.1.2 (1) .					
R703.14.1.2	Exterior Wall Covering	Cleans up the section on polypropylene siding.	No	NO	

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
R703.14.1.2 Fastener requirements. Unless otherwise specified in the manufacturer’s installation instructions, nails shall be corrosion resistant, with a minimum 0.120-inch (3 mm) shank and minimum 0.313-inch (8 mm) head diameter. Nails shall be a minimum of 1¼ inches (32 mm) long or as necessary to penetrate sheathing or nailable substrate not less than ¾ inch (19.1 mm). Where the nail fully penetrates the sheathing or nailable substrate, the end of the fastener shall extend not less than ¼ inch (6.4 mm) beyond the opposite face of the sheathing or nailable substrate. Spacing of fasteners shall be installed in accordance with the manufacturer’s installation instructions					
T R703.15.1	Exterior Wall Covering	Clarifies Table with additional footnotes.	No	NO	

2024 Code Section	TITLE OR SUBJECT					Reviewer Comments					Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation	
TABLE R703.15.1														
CLADDING MINIMUM FASTENING REQUIREMENTS FOR DIRECT ATTACHMENT OVER FOAM PLASTIC SHEATHING TO SUPPORT CLADDING WEIGHT ^a														
CLADDING FASTENER MINIMUM PENETRATION INTO WOOD WALL FRAMING ^b	CLADDING FASTENER TYPE AND MINIMUM SIZE ^c	CLADDING FASTENER VERTICAL SPACING ^d (inches)	MAXIMUM THICKNESS OF FOAM SHEATHING ^e (inches)											
			16" o.c. Fastener Horizontal Spacing					24" o.c. Fastener Horizontal Spacing						
			Cladding Weight: ^f					Cladding Weight: ^f						
			3 psf	11 psf	15 psf	18 psf	25 psf	3 psf	11 psf	15 psf	18 psf	25 psf		
1 1/4 inch	0.113" diameter nail	6	2.00	1.45	1.00	0.75	DR	2.00	0.85	0.55	DR	DR		
		8	2.00	1.00	0.65	DR	DR	2.00	0.55	DR	DR	DR		
		12	2.00	0.55	DR	DR	DR	1.85	DR	DR	DR	DR		
	0.120" diameter nail	6	3.00	1.70	1.15	0.90	0.55	3.00	1.05	0.65	0.50	DR		
		8	3.00	1.20	0.80	0.60	DR	3.00	0.70	DR	DR	DR		
		12	3.00	0.70	DR	DR	DR	2.15	DR	DR	DR	DR		
	0.131" diameter nail	6	4.00	2.15	1.50	1.20	0.75	4.00	1.35	0.90	0.70	DR		
		8	4.00	1.55	1.05	0.80	DR	4.00	0.90	0.55	DR	DR		
		12	4.00	0.90	0.55	DR	DR	2.70	0.50	DR	DR	DR		
	0.162" diameter nail	6	4.00	3.55	2.50	2.05	1.40	4.00	2.25	1.55	1.25	0.80		
		8	4.00	2.55	1.80	1.45	0.95	4.00	1.60	1.10	0.85	0.50		
		12	4.00	1.60	1.10	0.85	0.50	4.00	0.95	0.60	DR	DR		
For SI: 1 inch = 25.4 mm, 1 pound per square foot = 0.0479 kPa, 1 pound per square inch = 6.895 kPa. DR = Design Required. o.c. = On Center. a. Wood framing shall be Spruce-pine-fir or any wood species with a specific gravity of 0.42 or greater in accordance with AWC NDS . b. The thickness of wood structural panels complying with the specific gravity requirement of Note a shall be permitted to be included in satisfying the minimum penetration into framing. For cladding connections to wood structural panels, refer to Table R703.3.3 . For brick veneer tie connections to wood structural panels, refer to Table R703.8.4(2) . c. Nail fasteners shall comply with ASTM F1667, except nail length shall be permitted to exceed ASTM F1667 standard lengths. d. Fastener vertical spacing is an average spacing associated with the following nail count per foot: 6-inch spacing is associated with two nails per foot, 8-inch spacing is associated with 1.5 nails per foot, and 12-inch spacing is associated with one nail per foot. e. Foam sheathing shall have a minimum compressive strength of 15 psi in accordance with ASTM C578 or ASTM C1289 . f. Cladding weight is the maximum weight of cladding materials in pounds per square foot of wall area. The 3 psf category typically applies to panel and lap siding materials; the 11 psf category typically applies to conventional three-coat stucco of 7/8-inch thickness; and 15 psf to 25 psf categories typically apply to adhered masonry veneers.														
T R703.15.2 Footnote g.	Exterior Wall Covering					Clarifies Weight Categories					No	NO		

2024 Code Section	TITLE OR SUBJECT					Reviewer Comments					Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation		
TABLE R703.15.2															
FURRING MINIMUM FASTENING REQUIREMENTS FOR APPLICATION OVER FOAM PLASTIC SHEATHING TO SUPPORT CLADDING WEIGHT ^{a, b}															
FURRING MATERIAL	FRAMING MEMBER	FASTENER TYPE AND MINIMUM SIZE	MINIMUM PENETRATION INTO WALL FRAMING (inches) ^c	FASTENER SPACING IN FURRING (inches)	MAXIMUM THICKNESS OF FOAM SHEATHING ^g (inches)										
					16" o.c. Furring ^f					24" o.c. Furring ^f					
					Siding Weight: ^g					Siding Weight: ^g					
					3 psf	11 psf	15 psf	18 psf	25 psf	3 psf	11 psf	15 psf	18 psf	25 psf	
Minimum 1× wood furring ^d	Minimum 2× wood stud	0.131" diameter nail	1 1/4	8	4.00	2.45	1.75	1.45	0.95	4.00	1.60	1.10	0.85	DR	
				12	4.00	1.60	1.10	0.85	DR	4.00	0.95	0.55	DR	DR	
				16	4.00	1.10	0.70	DR	DR	3.05	0.60	DR	DR	DR	
		0.162" diameter nail	1 1/4	8	4.00	4.00	3.05	2.45	1.60	4.00	2.75	1.85	1.45	0.85	
				12	4.00	2.75	1.85	1.45	0.85	4.00	1.65	1.05	0.75	DR	
				16	4.00	1.90	1.25	0.95	DR	4.00	1.05	0.60	DR	DR	
		No.10 wood screw	1	12	4.00	2.30	1.60	1.20	0.70	4.00	1.40	0.85	0.60	DR	
				16	4.00	1.65	1.05	0.75	DR	4.00	0.90	DR	DR	DR	
				24	4.00	0.90	DR	DR	DR	2.85	DR	DR	DR	DR	
		1/4" lag screw	1 1/2	12	4.00	2.65	1.90	1.50	0.90	4.00	1.65	1.05	0.80	DR	
				16	4.00	1.95	1.25	0.95	0.50	4.00	1.10	0.65	DR	DR	
				24	4.00	1.10	0.65	DR	DR	3.25	0.50	DR	DR	DR	
For SI: 1 inch = 25.4 mm, 1 pound per square foot = 0.0479 kPa, 1 pound per square inch = 6.895 kPa. DR = Design Required. o.c. = On Center. a. Wood framing and furring shall be Spruce-pine-fir or any wood species with a specific gravity of 0.42 or greater in accordance with AWC NDS. b. Nail fasteners shall comply with ASTM F1667, except nail length shall be permitted to exceed ASTM F1667 standard lengths. c. The thickness of wood structural panels complying with the specific gravity requirements of Note a shall be permitted to be included in satisfying the minimum required penetration into framing. d. Where the required cladding fastener penetration into wood material exceeds 3/4 inch and is not more than 1 1/2 inches, a minimum 2× wood furring or an approved design shall be used. e. Foam sheathing shall have a minimum compressive strength of 15 psi in accordance with ASTM C578 or ASTM C1289. f. Furring shall be spaced not more than 24 inches on center, in a vertical or horizontal orientation. In a vertical orientation, furring shall be located over wall studs and attached with the required fastener spacing. In a horizontal orientation, the indicated 8-inch and 12-inch fastener spacing in furring shall be achieved by use of two fasteners into studs at 16 inches and 24 inches on center, respectively. g. Cladding weight is the maximum weight of cladding materials in pounds per square foot of wall area. The 3 psf category typically applies to panel and lap siding materials; the 11 psf category typically applies to conventional three-coat stucco of 7/8-inch thickness; and 15 psf to 25 psf categories typically apply to adhered masonry veneers.															
R703.18	Exterior Wall Covering					Exterior use of cement board is now permitted by the C1325 standard					No	NO			

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
R703.18 Fiber-mat reinforced cementitious backer units. Fiber-mat reinforced cementitious backer units used on exterior walls as a substrate for the application of exterior finish materials shall comply with ASTM C1325 . Installation shall be in accordance with the manufacturer's installation instructions. Backer units shall be installed using corrosion-resistant fasteners. Finish materials shall be installed in accordance with the manufacturer's instructions.					
T R704.3.4	Exterior Soffits and Facias	Addresses the use of soffit framing of wood species having lower specific gravity than the value of 0.42 associated with prescribed spacing of nails.	No	NO	
e. Fastener spacing applies where wood exterior soffit framing member-specific gravity is 0.42 or larger. Where the specific gravity of exterior soffit framing members is greater than or equal to 0.35 but less than 0.42 in accordance with AWC NDS , the fastener spacing shall be multiplied by 0.67 or the same fastener spacing as prescribed for galvanized steel nails shall be permitted to be used where RSRS-01 (2-inch by 0.099-inch by 0.266-inch head) nails replace 6d box nails and RSRS-03 (2 ¹ / ₂ -inch × 0.131-inch × 0.281-inch head) nails replace 8d common nails or 10d box nails. RSRS is a Roof Sheathing Ring Shank nail meeting the specifications in ASTM F1667 . Framing members shall be minimum 2 × 3 nominal with the larger dimension in the cross section aligning with the length of fasteners to provide sufficient embedment depths.					
R704.4	Exterior Soffits and Facias	Provide specific direction for the installation of fascia at the eaves and rakes.	Increase, See RB237-22	NO	
R704.4 Fascia. Fascia shall be installed in accordance with the manufacturer's installation instructions.					
R704.4.1	Exterior Soffits and Facias	Provide specific direction for the installation of fascia at the eaves and rakes.	Increase, See RB237-22	NO	
R704.4.1 Aluminum fascia. Aluminum fascia shall be installed in accordance with the manufacturer's installation instructions and comply with Section R704.4.1.1 or R704.4.1.2 .					
R704.4.1.1	Exterior Soffits and Facias	Provide specific direction for the installation of fascia at the eaves and rakes.	Increase, See RB237-22	NO	

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
R704.4.1.1 Fascia installation where the design wind pressure is 30 psf or less. Where the design wind pressure is 30 pounds per square foot (1.44 kPa) or less, aluminum fascia shall be attached with one finish nail [1¼ inches by 0.57 inch by 0.177 inch head diameter (32 mm × 14.5 mm × 4.5 mm)] in the return leg spaced a maximum of 24 inches (610 mm) on center, and the fascia shall be inserted under the drip edge with at least 1 inch (305 mm) of fascia material covered by the drip edge. Where the fascia can not be inserted under the drip edge, the top edge of the fascia shall be secured using one finish nail [1¼ inches by 0.57 inch by 0.177 inch head diameter (32 mm × 14.5 mm × 4.5 mm)] located not more than 1 inch (25 mm) below the drip edge and spaced a maximum of 24 inches (610 mm) on center.					
R704.4.1.2	Exterior Soffits and Facias	Provide specific direction for the installation of fascia at the eaves and rakes.	Increase, See RB237-22	NO	
R704.4.1.2 Fascia installation where the design wind pressure exceeds 30 psf. Where the design wind pressure is greater than 30 pounds per square foot (1.44 kPa), aluminum fascia shall be attached with one finish nail [1¼ inches by 0.57 inch by 0.177 inch head diameter (32 mm × 14.5 mm × 4.5 mm)] in the return leg spaced a maximum of 16 inches (406 mm) on center and one finish nail located not more than 1 inch (25 mm) below the drip edge spaced a maximum of 16 inches (406 mm) on center. As an alternative, the top edge of the fascia is permitted to be secured using utility <i>trim</i> installed beneath the drip edge with snap locks punched into the fascia spaced not more than 6 inches (152 mm) on center.					
R705.1	BIPV Systems For Exterior Wall Coverings and Fenestration	Requires that BIPV systems be listed and labeled in accordance with the applicable UL standards when used as exterior wall covering.	No	NO	

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
SECTION R705 BIPV SYSTEMS FOR EXTERIOR WALL COVERINGS AND FENESTRATION R705.1 Listing required. In addition to complying with other provisions of this code, building-integrated photovoltaic (BIPV) systems used as <i>exterior wall coverings</i> or fenestration shall be <i>listed</i> and <i>labeled</i> in accordance with UL 1703 or both UL 61730-1 and UL 61730-2 .					
CHAPTER 8 ROOF-CEILING CONSTRUCTION					
R802.11	Wood Roof Framing	Addresses the potential use of wall framing of wood species having lower specific gravity than the value of 0.42	Increase, See RB247-22	NO	

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
R802.11 Roof tie uplift resistance. <i>Roof assemblies</i> shall have uplift resistance in accordance with Sections R802.11.1 and R802.11.2. Exceptions: Rafters or trusses shall be permitted to be attached to their supporting wall assemblies in accordance with Table R602.3(1) where either of the following occur: 1. Where the specific gravity of the wood species used for wall framing is greater than or equal to 0.42 in accordance with AWC NDS and the uplift force per rafter or truss does not exceed 200 pounds (90.8 kg) as determined by Table R802.11. 2. Where the <i>basic wind speed</i> does not exceed 115 miles per hour (51.4 m/s), the wind exposure category is B, the roof pitch is 5 units vertical in 12 units horizontal (42-percent slope) or greater, the roof span is 32 feet (9754 mm) or less, and rafters and trusses are spaced not more than 24 inches (610 mm) on center.					
CHAPTER 9 ROOF ASSEMBLIES					
R902.1	Fire Classification	Clarifies the section	No	NO	
R902.1 Roof assemblies. Roof decks shall be covered with materials as set forth in Section R904 or with roof coverings as set forth in Section R905. Class A, B or C roof assemblies shall be installed in <i>jurisdictions</i> designated by law as requiring their use or where the edge of the roof deck is less than 3 feet (914 mm) from a <i>lot line</i>. Where Class A, B or C roof assemblies are required, they shall be tested in accordance with ASTM E108 or UL 790. Where required, the roof assembly shall be listed and identified as to class by an approved testing agency. Exceptions: 1. Class A <i>roof assemblies</i> include those with coverings of brick, masonry and exposed concrete <i>roof deck</i>. 2. Class A <i>roof assemblies</i> include ferrous or copper shingles or sheets, metal sheets and shingles, clay or concrete roof tile, or slate installed on noncombustible roof decks. 3. Class A <i>roof assemblies</i> include minimum 16 ounces per square foot (4.882 kg/m²) copper sheets installed over combustible roof decks. 4. Class A <i>roof assemblies</i> include slate installed over <i>underlayment</i> over combustible roof decks.					
R905.1.1	Requirements for Roof Coverings	Clarification and clean-up of Section R905.1.1 and Table R905.1.1(1) . BIPV are also added.	No	NO	

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
R905.1.1 Underlayment. <i>Underlayment</i> in accordance with this section is required for asphalt shingles, clay and concrete tile, <i>metal roof shingles</i>, mineral-surfaced roll roofing, slate and slate-type shingles, wood shingles, wood shakes, <i>metal roof panels</i> and <i>building-integrated photovoltaic (BIPV) roof coverings</i> shall conform to the applicable standards listed in this chapter. <i>Underlayment</i> materials required to comply with ASTM D226; D1970; D2626; D4869; D6380, Class M; D6757; or D8257 shall bear a <i>label</i> indicating compliance to the standard designation and, if applicable, type classification indicated in Table R905.1.1(1). <i>Underlayment</i> shall be applied in accordance with Table R905.1.1(2). <i>Underlayment</i> shall be in accordance with Table R905.1.1(3). Exception:Structural metal panels that do not require a substrate or underlayment.					
T R905.1.1	Requirements for Roof Coverings	Clarification and clean-up of Section R905.1.1 and Table R905.1.1(1) . BIPV are also added.	No	NO	

2024 Code Section	TITLE OR SUBJECT		Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
TABLE R905.1.1(1)UNDERLAYMENT TYPES						
ROOF COVERING	SECTION	AREAS WHERE WIND DESIGN IS NOT REQUIRED IN ACCORDANCE WITH FIGURE R301.2.1.1	AREAS WHERE WIND DESIGN IS REQUIRED IN ACCORDANCE WITH FIGURE R301.2.1.1			
Asphalt shingles	R905.2	ASTM D226 Type I or II ASTM D1970 ASTM D4869 Type I, II, III or IV ASTM D6757 ASTM D8257	ASTM D226 Type II ASTM D1970 ASTM D4869 Type III or IV ASTM D8257			
Clay and concrete tile	R905.3	ASTM D226 Type II ASTM D1970 ASTM D2626 ASTM D6380 Class M ASTM D8257	ASTM D226 Type II ASTM D1970 ASTM D8257			
Metal roof shingles	R905.4	ASTM D226 Type I or II ASTM D1970 ASTM D4869 Type I, II, III or IV ASTM D8257	ASTM D226 Type II ASTM D1970 ASTM D4869 Type III or IV ASTM D8257			
Mineral-surfaced roll roofing	R905.5	ASTM D226 Type I or II ASTM D1970 ASTM D4869 Type I, II, III or IV ASTM D8257	ASTM D226 Type II ASTM D1970 ASTM D4869 Type III or IV ASTM D8257			
Slate and slate-type shingles	R905.6	ASTM D226 Type I ASTM D1970 ASTM D4869 Type I, II, III or IV ASTM D8257	ASTM D226 Type II ASTM D1970 ASTM D4869 Type III or IV ASTM D8257			
Wood shingles	R905.7	ASTM D226 Type I or II ASTM D4869 Type I, II, III or IV	ASTM D226 Type II ASTM D4869 Type III or IV			
Wood shakes on solid sheathing	R905.8	ASTM D226 Type I or II ASTM D4869 Type I, II, III or IV	ASTM D226 Type II ASTM D4869 Type III or IV			
Metal panels on solid sheathing	R905.10	ASTM D226 Type I or II ASTM D4869 Type I, II III or IV	ASTM D226 Type II ASTM D1970 ASTM D4869 Type III or IV ASTM D8257			
BIPV roof coverings	R905.15	ASTM D226 Type I or II ASTM D1970 ASTM D4869 Type I, II, III or IV ASTM D6757 ASTM D8257	ASTM D226 Type II ASTM D1970 ASTM D4869 Type III or IV ASTM D8257			
For SI: 1 mile per hour = 0.447 m/s.						
T R905.1.1(2)	Requirements for Roof Coverings		Modifies the language that is applicable to installation of a 2-layer underlayment system clarifying the Underlayment Lapping and	No	NO	

2024 Code Section		TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
			Fastening in such a way that it reduces waste			
TABLE R905.1.1(2)UNDERLAYMENT APPLICATION						
ROOF COVERING	SECTION	AREAS WHERE WIND DESIGN IS NOT REQUIRED IN ACCORDANCE WITH FIGURE R301.2.1.1	AREAS WHERE WIND DESIGN IS REQUIRED IN ACCORDANCE WITH FIGURE R301.2.1.1			
Asphalt shingles	R905.2	Underlayment shall be one of the following: 1. For roof slopes from 2 units vertical in 12 units horizontal (2:12), up to 4 units vertical in 12 units horizontal (4:12), underlayment shall be two layers applied in the following manner: apply a strip of underlayment that is half the width of a full sheet parallel to and starting at the eaves, fastened sufficiently to hold in place. Starting at the eave, apply full-width sheets of underlayment, overlapping successive sheets half the width of a full sheet plus 2 inches. Distortions in the underlayment shall not interfere with the ability of the shingles to seal. End laps shall be 4 inches and shall be offset by 6 feet. 2. For roof slopes of 4 units vertical in 12 units horizontal (4:12) or greater, underlayment shall be one layer applied in the following manner: underlayment shall be applied shingle fashion, parallel to and starting from the eave and lapped 2 inches. Distortions in the underlayment shall not interfere with the ability of the shingles to seal. End laps shall be 4 inches and shall be offset by 6 feet. 3. A single layer of self-adhering polymer modified bitumen underlayment complying with ASTM D1970 , installed in accordance with the underlayment and roof covering manufacturer's installation instructions for the deck material, roof ventilation configuration and climate exposure of the roof covering.	Underlayment shall be one of the following: 1. Two layers of mechanically fastened underlayment applied in the following manner: Apply a strip of underlayment that is half the width of a full sheet parallel to and starting at the eaves, fastened sufficiently to hold in place. Starting at the eave, apply full-width sheets of underlayment, overlapping successive sheets half the width of a full sheet plus 2 inches. Distortions in the underlayment shall not interfere with the ability of the shingles to seal. End laps shall be 4 inches and shall be offset by 6 feet. 2. A minimum 4-inch-wide strip of self-adhering polymer modified bitumen underlayment complying with ASTM D1970 , installed in accordance with the manufacturer's installation instructions for the deck material, shall be applied over all joints in the roof decking. An approved underlayment complying with Table R905.1.1(1) for the applicable roof covering shall be applied over the entire roof over the 4-inch-wide membrane strips. 3. A single layer of self-adhering polymer modified bitumen underlayment complying with ASTM D1970 , installed in accordance with the underlayment and roof covering manufacturer's installation instructions for the deck material, roof ventilation configuration and climate exposure of the roof covering.			
Clay and concrete tile	R905.3	Underlayment shall be one of the following: 1. For roof slopes from 2½ units vertical in 12 units horizontal (2½:12), up to 4 units vertical in 12 units horizontal (4:12), underlayment shall be two layers applied in the following manner: apply a strip of underlayment that is half the width of a full sheet parallel to and starting at the eaves, fastened sufficiently to hold in place. Starting at the eave, apply full-width sheets of underlayment, overlapping successive sheets half the width of a full sheet plus 2 inches. End laps shall be 4 inches and shall be offset by 6 feet. 2. For roof slopes of 4 units vertical in 12 units horizontal (4:12) or greater, underlayment shall be one layer applied in the following manner: underlayment shall be applied shingle fashion, parallel to and starting from the eave and lapped 2 inches. End laps shall be 4 inches and shall be offset by 6 feet. 3. A single layer of self-adhering polymer modified bitumen underlayment complying with ASTM D1970 , installed in accordance with the underlayment and roof covering manufacturer's installation instructions for the deck material, roof ventilation configuration and climate exposure of the roof covering.	Underlayment shall be one of the following: 1. Two layers of mechanically fastened underlayment applied in the following manner: Apply a strip of underlayment that is half the width of a full sheet parallel to and starting at the eaves, fastened sufficiently to hold in place. Starting at the eave, apply full width sheets of underlayment, overlapping successive sheets half the width of a full sheet plus 2 inches. Distortions in the underlayment shall not interfere with the ability of the shingles to seal. End laps shall be 4 inches and shall be offset by 6 feet. 2. A minimum 4-inch-wide strip of self-adhering polymer modified bitumen underlayment complying with ASTM D1970 , installed in accordance with the manufacturer's installation instructions for the deck material, shall be applied over all joints in the roof decking. An approved underlayment complying with Table R905.1.1(1) for the applicable roof covering shall be applied over the entire roof over the 4-inch-wide membrane strips. 3. A single layer of self-adhering polymer modified bitumen underlayment complying with ASTM D1970 , installed in accordance with the underlayment and roof covering manufacturer's installation instructions for the deck material, roof ventilation configuration and climate exposure of the roof covering.			
T R905.1.1(2) continued		Requirements for Roof Coverings	Modifies the language that is applicable to installation of a 2-layer underlayment system clarifying the Underlayment Lapping and	No	NO	

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
		Fastening in such a way that it reduces waste			

2024 Code Section			Topic OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
Metal roof shingles	R905.4	Apply in accordance with the manufacturer's installation instructions.	Underlayment shall be one of the following: - Two layers of mechanically fastened underlayment applied in the following manner: Apply a strip of underlayment that is half the width of a full sheet parallel to and starting at the eaves, fastened sufficiently to hold in place. Starting at the eave, apply full width sheets of underlayment, overlapping successive sheets half the width of a full sheet plus 2 inches. End laps shall be 4 inches and shall be offset by 1 foot. - A minimum 4-inch-wide strip of self-adhering polymer modified bitumen underlayment complying with ASTM D1970, installed in accordance with the manufacturer's installation instructions for the deck material, shall be applied over all joints in the roof decking. An approved underlayment complying with Table R905.1.1(1) for the applicable roof covering shall be applied over the entire roof over the 4-inch wide membrane strips. - A single layer of self-adhering polymer modified bitumen underlayment complying with ASTM D1970, installed in accordance with the underlayment and roof covering manufacturer's installation instructions for the deck material, roof ventilation configuration and climate exposure shall be applied over the roof covering.				
Mineral-surfaced roll roofing	R905.5						
Slate and slate-type shingles	R905.6						
Wood shingles	R905.7						
Wood shakes	R905.8						
Metal panels	R905.10						
BIPV roof coverings	R905.15	Underlayment shall be one of the following: - For roof slopes from 2 units vertical in 12 units horizontal (2:12), up to 4 units vertical in 12 units horizontal (4:12), underlayment shall be two layers applied in the following manner: apply a strip of underlayment that is half the width of a full sheet parallel to and starting at the eaves, fastened sufficiently to hold in place. Starting at the eave, apply full width sheets of underlayment, overlapping successive sheets half the width of a full sheet plus 2 inches. Distortions in the underlayment shall not interfere with the ability of the shingles to seal. End laps shall be 4 inches and shall be offset by 6 feet. - For roof slopes of 4 units vertical in 12 units horizontal (4:12) or greater, underlayment shall be one layer applied in the following manner: underlayment shall be applied shingle fashion, parallel to and starting from the eave and lapped 2 inches. Distortions in the underlayment shall not interfere with the ability of the shingles to seal. End laps shall be 4 inches and shall be offset by 6 feet. - A single layer of self-adhering polymer modified bitumen underlayment complying with ASTM D1970, installed in accordance with the underlayment and roof covering manufacturer's installation instructions for the deck material, roof ventilation configuration and climate exposure of the roof covering.	Underlayment shall be one of the following: - Two layers of mechanically fastened underlayment applied in the following manner: Apply a strip of underlayment that is half the width of a full sheet parallel to and starting at the eaves, fastened sufficiently to hold in place. Starting at the eave, apply full width sheets of underlayment, overlapping successive sheets half the width of a full sheet plus 2 inches. Distortions in the underlayment shall not interfere with the ability of the shingles to seal. End laps shall be 4 inches and shall be offset by 6 feet. - A minimum 4-inch-wide strip of self-adhering polymer modified bitumen underlayment complying with ASTM D1970, installed in accordance with the manufacturer's installation instructions for the deck material, shall be applied over all joints in the roof decking. An approved underlayment complying with Table R905.1.1(1) for the applicable roof covering shall be applied over the entire roof over the 4-inch wide membrane strips. - A single layer of self-adhering polymer modified bitumen underlayment complying with ASTM D1970, installed in accordance with the underlayment and roof covering manufacturer's installation instructions for the deck material, roof ventilation configuration and climate exposure shall be applied over the roof covering.				

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 mile per hour = 0.447 m/s.

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
T R905.1.1(3)	Requirements for Roof Coverings	Adds reference to manufacturers Installation reqs for self-adhering polymer modified bitumen underlayment	No	NO	

TABLE R905.1.1(3)UNDERLAYMENT ATTACHMENT

ROOF COVERING	SECTION	AREAS WHERE WIND DESIGN IS NOT REQUIRED IN ACCORDANCE WITH FIGURE R301.2.1.1	AREAS WHERE WIND DESIGN IS REQUIRED IN ACCORDANCE WITH FIGURE R301.2.1.1
Asphalt shingles	R905.2	Fastened sufficiently to hold in place	Mechanically fastened underlayment shall be fastened with corrosion-resistant fasteners in a grid pattern of 12 inches between side laps with a 6-inch spacing at side and end laps. Underlayment shall be attached using annular ring or deformed shank nails with 1-inch-diameter metal or plastic caps. Metal caps shall have a thickness of not less than 32-gage sheet metal. Power-driven metal caps shall have a minimum thickness of 0.010 inch. Minimum thickness of the outside edge of plastic caps shall be 0.035 inch. The cap nail shank shall be not less than 0.083 inch. The cap nail shank shall have a length sufficient to penetrate through the roof sheathing or not less than $\frac{3}{4}$ inch into the roof sheathing. Self-adhering polymer modified bitumen underlayment shall be installed in accordance with the underlayment and roof covering manufacturers' installation instructions for the deck material, roof ventilation configuration, and climate exposure of the roof covering.
Clay and concrete tile	R905.3		
<i>BIPV roof covering</i>	R905.15		
Metal roof shingles	R905.4	Manufacturer's installation instructions.	Mechanically fastened underlayment shall be fastened with corrosion-resistant fasteners in a grid pattern of 12 inches between side laps with a 6-inch spacing at side and end laps. Underlayment shall be attached using annular ring or deformed shank nails with 1-inch-diameter metal or plastic caps. Metal caps shall have a thickness of not less than 32-gage sheet metal. Power-driven metal caps shall have a minimum thickness of 0.010 inch. Minimum thickness of the outside edge of plastic caps shall be 0.035 inch. The cap nail shank shall be not less than 0.083 inch. The cap nail shank shall have a length sufficient to penetrate through the roof sheathing or not less than $\frac{3}{4}$ inch into the roof sheathing. Self-adhering polymer modified bitumen underlayment shall be installed in accordance with the underlayment and roof covering manufacturers' installation instructions for the deck material, roof ventilation configuration and climate exposure of the roof covering. Exception: Self-adhering polymer modified bitumen underlayment shall not be installed under wood shakes or wood shingles.
Mineral-surfaced roll roofing	R905.5		
Slate and slate-type shingles	R905.6		
Wood shingles	R905.7		
Wood shakes	R905.8		
Metal panels	R905.10		

For SI: 1 inch = 25.4 mm, 1 mile per hour = 0.447 m/s.

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
R905.3.6	Requirements For Roof Coverings	Intended to clarify the wind limitations in the IRC. Section R301.2.1.1 intends to limit the applicability of the IRC to areas where wind design is not required.	No	NO	
R905.3.6 Wind resistance of concrete and clay tile. In regions where wind design is required in accordance with Figure R301.2.1.1 , wind loads on concrete and clay tile shall be determined in accordance with Section 1504.3 of the <i>International Building Code</i> . In regions where wind design is not required in accordance with Figure R301.2.1.1 , concrete and clay tiles shall be attached in accordance with Sections R905.3.8 and R905.3.9 .					
R905.5.6	Requirements For Roof Coverings	Intended to clarify the wind limitations in the IRC.	No	NO	
R905.5.6 Wind resistance of mineral-surfaced roll roofing. Mineral-surfaced roll roofing shall be installed to resist the component and cladding loads specified in Table R301.2.1(1) , adjusted for height and exposure in accordance with Table R301.2.1(2) .					
R905.6.5	Requirements For Roof Coverings	Intended to clarify the wind limitations in the IRC.	No	NO	

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation																											
R905.6.5 Wind resistance of slate shingles. Slate shingles shall be tested in accordance with ASTM D3161 . Slate shingle packaging shall bear a <i>label</i> indicating compliance with ASTM D3161 and the required classification in Table R905.6.5 .																																
T R905.6.5	Requirements For Roof Coverings	Provides building officials and users of the code guidance regarding the wind resistance of slate roof covings.	No	NO																												
TABLE R905.6.5CLASSIFICATION OF SLATE SHINGLES TESTED IN ACCORDANCE WITH ASTM D3161																																
<table><tr><th>MAXIMUM ULTIMATE DESIGN WIND SPEED, V_{ult}, FROM FIGURE R301.2(2) (mph)</th><th>MAXIMUM BASIC WIND SPEED, V_{bsd}, FROM TABLE R301.2.1.3 (mph)</th><th>ASTM D3161 CLASSIFICATION</th></tr><tr><td>110</td><td>85</td><td>A, D or F</td></tr><tr><td>116</td><td>90</td><td>A, D or F</td></tr><tr><td>129</td><td>100</td><td>A, D or F</td></tr><tr><td>142</td><td>110</td><td>F</td></tr><tr><td>155</td><td>120</td><td>F</td></tr><tr><td>168</td><td>130</td><td>F</td></tr><tr><td>181</td><td>140</td><td>F</td></tr><tr><td>194</td><td>150</td><td>F</td></tr></table> For SI: 1 mph=0.447 m/s						MAXIMUM ULTIMATE DESIGN WIND SPEED, V_{ult} , FROM FIGURE R301.2(2) (mph)	MAXIMUM BASIC WIND SPEED, V_{bsd} , FROM TABLE R301.2.1.3 (mph)	ASTM D3161 CLASSIFICATION	110	85	A, D or F	116	90	A, D or F	129	100	A, D or F	142	110	F	155	120	F	168	130	F	181	140	F	194	150	F
MAXIMUM ULTIMATE DESIGN WIND SPEED, V_{ult} , FROM FIGURE R301.2(2) (mph)	MAXIMUM BASIC WIND SPEED, V_{bsd} , FROM TABLE R301.2.1.3 (mph)	ASTM D3161 CLASSIFICATION																														
110	85	A, D or F																														
116	90	A, D or F																														
129	100	A, D or F																														
142	110	F																														
155	120	F																														
168	130	F																														
181	140	F																														
194	150	F																														
R905.7.1	Requirements For Roof Coverings	Some of the underlayment drying process occurs toward the interior. The exposure of this surface to	No	NO																												

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
		the ventilation space is necessary to facilitate this process.			
R905.7.1 Sheathing requirements. Wood shingles shall be fastened to <i>wood structural panels, solid lumber sheathing or spaced lumber sheathing</i> . Where spaced <i>lumber</i> sheathing is used, sheathing boards shall be not less than 1-inch by 4-inch (25 mm by 102 mm) nominal dimensions and shall be spaced on centers equal to the weather exposure to coincide with the placement of fasteners. <i>Where 1-inch by 4-inch (25 mm by 102 mm) spaced sheathing is installed at 10 inches (254 mm) or greater, additional 1-inch by 4-inch (25 mm by 102 mm) boards shall be installed between the sheathing boards. Where wood shingles are installed over spaced sheathing and the underside of the shingles are exposed to the attic space, the attic shall be ventilated in accordance with Sections R806.1, R806.2, R806.3 and R806.4. The shingles shall not be backed with materials that will occupy the required air gap space and prevent the free movement of air on the interior side of the spaced sheathing.</i>					
R905.7.5	Requirements For Roof Coverings	Intended to clarify the wind limitations in the IRC. Section R301.2.1.1 intends to limit the applicability of the IRC to areas where wind design is not required.	No	NO	
R905.7.5 Wind resistance of wood shingles. <i>In regions where wind design is required in accordance with Figure R301.2.1.1, wood shingles shall be installed to resist the component and cladding loads specified in Table R301.2.1(1), adjusted for height and exposure in accordance with Table R301.2.1(2). In regions where wind design is not required in accordance with Figure R301.2.1.1, wood shingles are permitted to be attached in accordance with Section R905.7.6.</i>					
R905.8.1	Requirements For Roof Coverings	Some of the underlayment drying process occurs toward the interior. The exposure of this surface to the ventilation space is necessary to facilitate this process.	No	NO	

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
R905.8.1 Sheathing requirements. Wood shakes shall be fastened to wood structural panels, solid lumber sheathing or spaced lumber sheathing . Where spaced lumber sheathing is used, sheathing boards shall be not less than 1-inch by 4-inch (25 mm by 102 mm) nominal dimensions and shall be spaced on centers equal to the weather exposure to coincide with the placement of fasteners. Where 1-inch by 4-inch (25 mm by 102 mm) spaced lumber sheathing is installed at 10 inches (254 mm) on center, additional 1-inch by 4-inch (25 mm by 102 mm) boards shall be installed between the sheathing boards. Where wood shakes are installed over spaced sheathing and the underside of the shakes are exposed to the attic space, the attic shall be ventilated in accordance with Sections R806.1, R806.2, R806.3 and R806.4. The shakes shall not be backed with materials that will occupy the required air gap space and prevent the free movement of air on the interior side of the spaced sheathing.					
R905.8.6	Requirements For Roof Coverings	Intended to clarify the wind limitations in the IRC. Section R301.2.1.1 intends to limit the applicability of the IRC to areas where wind design is not required.	No	NO	
R905.8.6 Wind resistance of wood shakes. In regions where wind design is required in accordance with Figure R301.2.1.1 , Wood shakes shall be installed to resist the component and cladding loads specified in Table R301.2.1(1) , adjusted for height and exposure in accordance with Table R301.2.1(2) . In regions where wind design is not required in accordance with Figure R301.2.1.1 , wood shakes are permitted to be attached in accordance with Section R905.8.8 .					
R905.9.4	Requirements For Roof Coverings	Intended to clarify the wind limitations in the IRC.	No	NO	
R905.9.4 Wind resistance of built-up roofs. Built-up roof coverings shall be tested in accordance with FM 4474 , UL 580 or UL 1897 and installed to resist the component and cladding loads specified in Table R301.2.1(1) , adjusted for height and exposure in accordance with Table R301.2.1(2) .					
R905.10.5	Requirements For Roof Coverings	Intended to clarify the wind limitations in the IRC.	No	NO	

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation												
R905.10.5 Wind resistance of metal roof panels. <i>Metal roof panels</i> shall be installed to resist the component and cladding loads specified in Table R301.2.1(1) , adjusted for height and exposure in accordance with Table R301.2.1(2) . <i>Metal roof panels</i> applied to a solid or closely fitted deck shall be tested for wind resistance in accordance with FM 4474 , UL 580 , or UL 1897 . Structural standing seam metal panel roof systems shall be tested for wind resistance in accordance with ASTM E1592 or FM 4474 . Structural through-fastened metal panel roof systems shall be tested for wind resistance in accordance with ASTM E1592 , FM 4474 or UL 580 . Exceptions: 1. Metal roofs constructed of cold-formed steel shall be permitted to be designed and tested in accordance with the applicable referenced structural design standard in Section 2208.1 of the <i>International Building Code</i>. 2. Metal roofs constructed of aluminum shall be permitted to be designed and tested in accordance with the applicable referenced structural design standard in Section 2002.1 of the <i>International Building Code</i>.																	
R905.11.4	Requirements For Roof Coverings	Intended to clarify the wind limitations in the IRC.	No	NO													
R905.11.4 Wind resistance of modified bitumen roofing. Modified bitumen roofing shall be tested in accordance with FM 4474 , UL 580 or UL 1897 and installed to resist the component and cladding loads specified in Table R301.2.1(1) , adjusted for height and exposure in accordance with Table R301.2.1(2) .																	
T R905.12	Requirements For Roof Coverings	combines two existing sections, R905.12/R905.13 into a new section	No	NO													
TABLE R905.12 SINGLE-PLY ROOFING MATERIAL STANDARDS <table><tr><th>MATERIAL</th><th>STANDARD</th></tr><tr><td>Chlorosulfanated polyethylene (CSPE) or polyisobutylene (PIB)</td><td>ASTM D5019</td></tr><tr><td>Ethylene propylene diene monomer (EPDM)</td><td>ASTM D4637</td></tr><tr><td>Ketone Ethylene Ester (KEE)</td><td>ASTM D6754</td></tr><tr><td>Polyvinyl chloride (PVC) or (PVC/KEE)</td><td>ASTM D4434</td></tr><tr><td>Thermoplastic polyolefin (TPO)</td><td>ASTM D6878</td></tr></table>						MATERIAL	STANDARD	Chlorosulfanated polyethylene (CSPE) or polyisobutylene (PIB)	ASTM D5019	Ethylene propylene diene monomer (EPDM)	ASTM D4637	Ketone Ethylene Ester (KEE)	ASTM D6754	Polyvinyl chloride (PVC) or (PVC/KEE)	ASTM D4434	Thermoplastic polyolefin (TPO)	ASTM D6878
MATERIAL	STANDARD																
Chlorosulfanated polyethylene (CSPE) or polyisobutylene (PIB)	ASTM D5019																
Ethylene propylene diene monomer (EPDM)	ASTM D4637																
Ketone Ethylene Ester (KEE)	ASTM D6754																
Polyvinyl chloride (PVC) or (PVC/KEE)	ASTM D4434																
Thermoplastic polyolefin (TPO)	ASTM D6878																
R905.12.4	Requirements For Roof Coverings	Intended to clarify the wind limitations in the IRC.	No	NO													

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
R905.12.4 Wind resistance of single-ply roofing. Single-ply roofing shall be tested in accordance with FM 4474 , UL 580 or UL 1897 and installed to resist the component and cladding loads specified in Table R301.2.1(1) , adjusted for height and exposure in accordance with Table R301.2.1(2) .					
R905.13.4	Requirements For Roof Coverings	Intended to clarify the wind limitations in the IRC.	No	NO	
R905.13.4 Wind resistance of sprayed polyurethane foam roofing. Sprayed polyurethane foam roofing shall be tested in accordance with FM 4474 , UL 580 or UL 1897 and installed to resist the component and cladding loads specified in Table R301.2.1(1) , adjusted for height and exposure in accordance with Table R301.2.1(2) .					
R905.14.4	Requirements For Roof Coverings	Intended to clarify the wind limitations in the IRC.	No	NO	
R905.14.4 Wind resistance of liquid-applied roofing. Liquid-applied roofing shall be tested in accordance with FM 4474 , UL 580 or UL 1897 and installed to resist the component and cladding loads specified in Table R301.2.1(1) , adjusted for height and exposure in accordance with Table R301.2.1(2) .					
R905.16.7	Requirements For Roof Coverings	Intended to clarify the wind limitations in the IRC.	No	NO	
R905.16.7 Wind resistance of BIPV roof panels. <i>BIPV roof panels</i> shall be tested in accordance with UL 7103 and installed to resist the component and cladding loads specified in Table R301.2.1(1) , adjusted for height and exposure in accordance with Table R301.2.1(2) .					
R908.3	Reroofing	Provides specific requirements on acceptable methods for dealing with existing self-adhered membranes during a roof replacement.	Decrease, See RB281-22	NO	

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
R908.3 Roof replacement. <i>Roof replacement</i> shall include the removal of existing layers of <i>roof coverings</i> down to the <i>roof deck</i>. Exceptions: 1. Where the existing <i>roof assembly</i> includes an ice barrier membrane that is adhered to the <i>roof deck</i> and the existing sheathing is not water soaked or deteriorated to the point that it is not adequate as a base for additional roofing, the existing ice barrier membrane shall be permitted to remain in place and covered with an additional layer of ice barrier membrane in accordance with Section R905 where permitted by the roof covering manufacturer and new ice barrier underlayment manufacturer. 2. Where the existing roof includes a self-adhered <i>underlayment</i> and the existing sheathing is not water soaked or deteriorated to the point that it is not adequate as a base for additional roofing, the existing self-adhered <i>underlayment</i> shall be permitted to remain in place and covered with an <i>underlayment</i> complying with Table R905.1.1(1), Table R905.1.1(2) and Table R905.1.1(3). 3. Where the existing roof includes one layer of self-adhered <i>underlayment</i> and the existing layer cannot be removed without damaging the <i>roof deck</i>, a second layer of self-adhered <i>underlayment</i> is permitted to be installed over the existing self-adhered <i>underlayment</i> provided that the following conditions are met: 3.1. It is permitted by the roof covering manufacturer and new self-adhered underlayment manufacturer. 3.2. The existing sheathing is not water soaked or deteriorated to the point that it is not adequate as a base for additional roofing. 3.3. The second layer of self-adhered <i>underlayment</i> is installed such that buildup of material at walls, valleys, roof edges, end laps, and side laps does not exceed two layers.					
R908.4	Reroofing	Intended to Clarify Existing Code	No	NO	
R908.4 Roof recover. The installation of a new <i>roof covering</i> over an existing <i>roof covering</i> shall be permitted where any of the following conditions occur: 1. Where the new <i>roof covering</i> is installed in accordance with the roof covering manufacturer's <i>approved</i> instructions. 2. Complete and separate roofing systems, such as standing-seam metal roof systems, that are designed to transmit the roof loads directly to the <i>building's</i> structural system and do not rely on existing roofs and <i>roof coverings</i> for support, shall not require the removal of existing <i>roof coverings</i>. 3. Metal panel, metal shingle and concrete and clay tile <i>roof coverings</i> shall be permitted to be installed over existing wood shake roofs where applied in accordance with Section R908.4.1.					

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
4. 4.The application of a new protective <i>roof coating</i> over an existing protective <i>roof coating</i>, <i>metal roof panel</i>, <i>metal roof shingle</i>, mineral surfaced roll roofing, built-up roof, modified bitumen roofing, thermoset and thermoplastic single-ply roofing and spray polyurethane foam roofing system shall be permitted without tear-off of existing <i>roof coverings</i>. Exceptions: A <i>roof recover</i> shall not be permitted where any of the following conditions occur: 1. 1.Where the existing roof or <i>roof covering</i> is water soaked or has deteriorated to the point that the existing roof or <i>roof covering</i> is not adequate as a base for the additional roofing. 2. 2.Where the existing <i>roof covering</i> is slate, clay, cement or asbestos-cement tile. 3. 3.Where the existing roof has two or more applications of any type of <i>roof covering</i>.					
R909.1	Roof Coatings	provide specific requirements regarding the use of roof coating materials.	No	NO	
SECTION R909 ROOF COATINGS R909.1 General. The installation of a <i>roof coating</i> on a <i>roof covering</i> shall comply with the requirements of Section R902, Section R904 and this section. <i>Roof coatings</i> shall be installed in accordance with the manufacturer's installation instructions.					
R909.2	Roof Coatings	provide specific requirements regarding the use of roof coating materials.	No	NO	
R909.2 Material standards. Roof coating materials shall comply with one of the standards in Table R909.2.					
T R909.2	Roof Coatings	provide specific requirements regarding the use of roof coating materials.	No	NO	

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
TABLE R909.2ROOF COATING MATERIAL STANDARDS					
COATING MATERIAL		STANDARD			
Acrylic coating		ASTM D6083			
Asphaltic emulsion coating		ASTM D1227			
Asphalt coating		ASTM D2823			
Asphalt roof coating		ASTM D4479			
Aluminum-pigmented asphalt coating		ASTM D2824			
Silicone coating		ASTM D6694			
Moisture-cured polyurethane coating		ASTM D6947			

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
R1001.11 Fireplace clearance. Wood beams, joists, studs and other <i>combustible material</i> shall have a clearance of not less than 2 inches (51 mm) from the front faces and sides of masonry fireplaces and not less than 4 inches (102 mm) from the back faces of masonry fireplaces. The airspace shall not be filled, except for <i>noncombustible material</i> or to provide <i>fireblocking</i> in accordance with Section R1001.12. Exceptions: 1.Masonry fireplaces <i>listed</i> and <i>labeled</i> for use in contact with combustibles in accordance with UL 127 and installed in accordance with the manufacturer's instructions are permitted to have <i>combustible material</i> in contact with their exterior surfaces. 2.Where masonry fireplaces are part of masonry or concrete walls, <i>combustible materials</i> shall not be in contact with the masonry or concrete walls less than 12 inches (306 mm) from the inside surface of the nearest firebox lining. 3.Exposed combustible <i>trim</i> and the edges of sheathing materials such as wood siding, flooring and <i>gypsum board</i> shall be permitted to abut the masonry fireplace sidewalls and hearth extension in accordance with Figure R1001.11, provided that such combustible <i>trim</i> or sheathing is not less than 8 inches (203 mm) from the inside surface of the nearest firebox lining. Where the fireplace opening is 6 square feet (0.6 m²) or larger, such combustible <i>trim</i> or sheathing shall be permitted to abut the masonry fireplace sidewalls and hearth extension provided that such combustible <i>trim</i> or sheathing is not less than 12 inches (305 mm) from the inside surface of the nearest firebox lining. 4.Exposed combustible mantels or <i>trim</i> is permitted to be placed directly on the masonry fireplace front surrounding the fireplace opening providing such <i>combustible materials</i> are not placed within 6 inches (152 mm) of a fireplace opening. <i>Combustible material</i> within 12 inches (306 mm) of the fireplace opening shall not project more than 1/8 inch (3 mm) for each 1-inch (25 mm) distance from such an opening.					
R1003.18	Masonry Chimneys	Change from 12" to 8" in Exception 3 supported by 2013 Engineering Study	No	NO	

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
R1003.18 Chimney clearances. Any portion of a <i>masonry chimney</i> located in the interior of the <i>building</i> or within the exterior wall of the <i>building</i> shall have a minimum airspace clearance to combustibles of 2 inches (51 mm). Chimneys located entirely outside the exterior walls of the <i>building</i>, including chimneys that pass through the soffit or cornice, shall have a minimum airspace clearance of 1 inch (25 mm). The airspace shall not be filled, except to provide fire blocking in accordance with Section R1003.19. Exceptions: 1. <i>Masonry chimneys</i> equipped with a chimney lining system <i>listed</i> and <i>labeled</i> for use in chimneys in contact with combustibles in accordance with UL 1777 and installed in accordance with the manufacturer's instructions are permitted to have <i>combustible material</i> in contact with their exterior surfaces. 2. Where <i>masonry chimneys</i> are constructed as part of masonry or concrete walls, <i>combustible materials</i> shall not be in contact with the masonry or concrete wall less than 8 inches (203 mm) from the inside surface of the nearest flue lining. 3. <i>Combustible materials</i> shall be permitted to abut the <i>masonry chimney</i> side walls, in accordance with Figure R1003.18, provided such combustible material is not less than 8 inches (203 mm) from the inside surface of the nearest flue lining.					
CHAPTER 11 ENERGY EFFICIENCY					

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
Chapter 11 Not Adopted. Energy Code is Regulated by WAC 51-11R WSEC-R					
CHAPTER 12 MECHANICAL ADMINISTRATION					

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
No Significant Changes					
CHAPTER 13 GENERAL MECHANICAL SYSTEM REQUIREMENTS					

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
R1308.2.1	Mechanical Systems Installation	Reducing setback to 1 ¼ before a shield plate is required still keeps the pipes safely out of range of drywall screws up to 1-1/2 inches long	No	NO	
M1308.2.1 Piping through bored holes or notches. Where <i>piping</i> is installed through holes or notches in framing members and is located less than 1¼ inches (32 mm) from the framing member face to which wall, ceiling or floor membranes will be attached, the pipe shall be protected by shield plates that cover the width of the pipe and the framing member and that extend 2 inches (51 mm) to each side of the framing member. Where the framing member that the piping passes through is a bottom plate, bottom track, top plate or top track, the shield plates shall cover the framing member and extend 2 inches (51 mm) above the bottom framing member and 2 inches (51 mm) below the top framing member.					
R1308.2.2	Mechanical Systems Installation	Reducing setback to 1 ¼ before a shield plate is required still keeps the pipes safely out of range of drywall screws up to 1-1/2 inches long	No	NO	
M1308.2.2 Piping in other locations. Where piping is located within a framing member and is less than 1¼ inches (32 mm) from the framing member face to which wall, ceiling or floor membranes will be attached, the piping shall be protected by shield plates that cover the width and length of the piping. Where piping is located outside of a framing member and is located less than 1½ inches (38 mm) from the nearest edge of the face of the framing member to which the membrane will be attached, the piping shall be protected by shield plates that cover the width and length of the piping.					
CHAPTER 14 HEATING AND COOLING EQUIPMENT AND APPLIANCES					

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
M1402.1	Central Furnaces	Updates Standards to most Current	No	NO	
M1402.1 General. Oil-fired central furnaces shall <i>be listed and labeled in accordance with</i> UL 727 . Electric furnaces shall <i>be listed and labeled in accordance with</i> UL 1995 or UL/CSA 60335-2-40 .					
M1404.1	Refrigeration Cooling Equipment	Adds Appropriate Standards that Regulate refrigeration cooling equipment	No	NO	
M1404.1 Compliance. Refrigeration cooling equipment shall <i>be listed and labeled in accordance with</i> UL 484 , UL 1995 or UL/CSA 60335-2-40 .					
M1411.2	Heating and Cooling Equipment	Adds requirements consistent with the provisions in ASHRAE 15.2.	No	NO	
M1411.2 Refrigeration system listing. Refrigeration systems using Group A2L refrigerants shall <i>be listed and labeled to</i> UL/CSA 60335-2-40 . Refrigeration systems using Group A1 refrigerants shall <i>be listed to</i> UL/CSA 60335-2-40 or UL 1995 . The equipment shall be installed in accordance with the listing.					
M1411.3	Heating and Cooling Equipment	Adds requirements consistent with the provisions in ASHRAE 15.2.	No	NO	
M 1411.3 Refrigeration system installation. Refrigeration systems shall be installed in accordance with the manufacturer's installation instructions. After installation, the manufacturer's installation instructions, owner's manuals, service manuals and any other product literature provided with the equipment shall be attached to the indoor unit or left with the homeowner.					
M1411.4	Heating and Cooling Equipment	Adds requirements consistent with the provisions in ASHRAE 15.2.	No	NO	
M1411.4 Field-installed accessories.					

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
Field-installed accessories shall be installed in accordance with the accessory and equipment manufacturer's installation instructions. Accessories installed in the ductwork of Group A2L refrigeration systems shall not contain electric heating elements, open flames, or devices switching electrical loads greater than 2.5 kVA.					
M1411.5	Heating and Cooling Equipment	Adds requirements consistent with the provisions in ASHRAE 15.2.	No	NO	
M1411.5 Signs and identification. Each refrigeration system using Group A2L refrigerant shall have the following information legibly and permanently indicated on a markable label provided by the equipment manufacturer. 1.Contact information of the responsible company that installed the refrigeration system. 2.The system refrigerant charge and the refrigerant number.					
M1411.6	Heating and Cooling Equipment	Adds requirements consistent with the provisions in ASHRAE 15.2.	No	NO	
M1411.6 Refrigerant charge. Refrigeration systems shall have refrigerant charge in compliance with the equipment manufacturer's installation instructions and the requirements of the listing. Group A2L refrigerant charge for an individual refrigeration system shall not exceed 34.5 pounds (15.7 kg).					
M1411.7	Heating and Cooling Equipment	Adds requirements consistent with the provisions in ASHRAE 15.2.	No	NO	

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
M1411.7 Group A2L refrigerant piping testing. The piping system containing Group A2L refrigerant shall be tested in accordance with the manufacturer's installation instructions and the requirements of the listing.					
CHAPTER 15 EXHAUST SYSTEMS					
M1502.6	Clothes Dryer Exhaust	Establishes minimum and reasonable requirements for clothes dryer makeup air.	No	NO	
M1502.6 Makeup air. Installations exhausting more than 200 cubic feet per minute (0.09 m³/s) shall be provided with makeup air.					
M1502.6.1	Clothes Dryer Exhaust	Clarifies that transfer air can be used to meet makeup air requirements for clothes dryers in closets or that makeup air could be directly ducted from the outdoors to the clothes dryer closet.	No	NO	
M1502.6.1 Closet installation. Where a <i>closet</i> is designed for the installation of a clothes dryer, makeup air shall be provided in accordance with the dryer manufacturer's installation instructions. If the manufacturer's installation instructions do not include specifications for provision of makeup air, one or more permanent openings having a total area of not less than 100 square inches (645 mm²) shall be provided in the <i>closet</i> enclosure, or makeup air shall be provided by other <i>approved</i> means.					
M1503.5	Domestic Cooking Exhaust Equipment	Editorial, local exhaust rates for kitchens and bathrooms moved out from	No	YES, Modify Existing Amendment	

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
		whole house mechanical ventilation			
M1503.5 Kitchen exhaust rates. Where domestic <i>kitchen</i> cooking <i>appliances</i> are equipped with ducted range hoods or down-draft exhaust systems, the exhaust rate shall equal or exceed the airflow required in Table M1505.5 at one or more speed settings.					
M1503.6	Domestic Cooking Exhaust Equipment	Clarifies a minimum of one outdoor air duct is required in a kitchen makeup air system.	No	NO	
M1503.6 Makeup air required. Where one or more gas, liquid or solid fuel-burning <i>appliance</i> that is neither direct-vent nor uses a <i>mechanical draft</i> venting system is located within a <i>dwelling unit's air barrier</i> , each exhaust system capable of exhausting in excess of 400 cubic feet per minute (0.19 m ³ /s) shall be mechanically or passively provided with makeup air at a rate approximately equal to the exhaust air rate. Such makeup air systems shall be equipped with not fewer than one outdoor air duct and damper complying with Section M1503.6.2 . Exception: Makeup air is not required for exhaust systems installed for the exclusive purpose of space cooling and intended to be operated only when windows or other air inlets are open.					
M15003.6.1	Domestic Cooking Exhaust Equipment	Clarifies a minimum of one outdoor air duct is required in a kitchen makeup air system.	No	NO	
M1503.6.1 Location. <i>Kitchen</i> exhaust makeup air that is ducted from the outdoors shall be discharged into the same room in which the exhaust system is located or into rooms or <i>duct systems</i> that communicate through one or more permanent openings with the room in which such exhaust system is located. Such permanent openings shall have a net cross-sectional area not less than the required area of the makeup air supply openings.					
M1504.3	Exhaust Ducts and Exhaust Openings	Clarifies location for combination Intake/Exhaust vents. Reduces materials	Decrease, See RM13-21	YES	ICC Errata: #4 Should Reference R325.

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
		and labor expense required to offset exhaust duct terminations away from windows.			TAG Proposal 24-GP2-044
M1504.3 Exhaust openings. Air exhaust openings shall terminate as follows: 1. Not less than 3 feet (914 mm) from property lines. 2. Not less than 3 feet (914 mm) from gravity air intake openings, operable windows and doors except where the exhaust opening is located not less than 1 foot (305 mm) above the gravity air intake opening, operable windows and doors. 3. Not less than 10 feet (3048 mm) from mechanical air intake openings except where either of the following apply: 3.1. The exhaust opening is located not less than 3 feet (914 mm) above the air intake opening. 3.2. The exhaust opening is part of a factory-built intake/exhaust combination termination fitting installed in accordance with the fan manufacturer's instructions, and the exhaust air is drawn from a living space. 4. In accordance with Sections R303.5.2 and R303.6.					
M1505.5	Mechanical Ventilation	Footnote a. moved to the main section from T R1505.5 To ensure that builders are selecting fans that can be expected to	No	NO	

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
		achieve the required 50 cfm in the field.			
M1505.5 Local exhaust rates. <i>Local exhaust</i> systems shall be designed to have the capacity to exhaust the minimum airflow rate determined in accordance with Table M1505.5 at one or more speed settings. The <i>listed</i> exhaust airflow rate for a bathroom or toilet room exhaust fan shall equal or exceed the exhaust airflow rate in Table M1505.5 at a minimum static pressure of 0.25 inch wc at one or more speed settings in accordance with Section M1505.3.					
CHAPTER 16 DUCT SYSTEMS					
M 1602.2	Return Air	Allowing a limited amount of return air provides a means of controlling closet moisture levels.	Increase, See RM19-21	NO	

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
M1602.2 Return air openings. Return air openings for heating, <i>ventilation</i> and air-conditioning systems shall comply with all of the following: 1.Openings shall not be located less than 10 feet (3048 mm) measured in any direction from an open combustion chamber or draft hood of another <i>appliance</i> located in the same room or space. 2.The amount of return air taken from any room or space <i>except mechanical rooms, boiler rooms or furnace rooms</i> shall be not greater than the flow rate of supply air delivered to such room or space. <i>Return air taken from mechanical rooms, boiler rooms or furnace rooms shall serve only the mechanical room and shall be permitted to be taken from mechanical rooms that have no dedicated supply duct.</i> 3.Return and transfer openings shall be sized in accordance with the <i>appliance</i> or equipment manufacturer’s installation instructions, <i>Manual D</i> or the design of the <i>registered design professional</i>. 4.Where return air is taken from a mechanical room, boiler room or <i>furnace room</i> with combustion <i>appliances</i>, only sealed combustion <i>appliances</i> shall be permitted within the mechanical room. 5.Where return air is taken from a mechanical room, boiler room or <i>furnace room</i>, the pressure differential across the mechanical room, boiler room or <i>furnace room</i> door shall be limited to 0.01 inch wc (2.5 pascals) or less by undercutting the door, or installing a louvered door or transfer grille, or by some other means. 6.Where return air is taken from a <i>closet</i>, the return air shall be not more than 30 cubic feet per minute (15 l/s), shall serve only the <i>closet</i> and shall not require a dedicated supply duct, and the closet door shall be undercut not less than 1.5 inches (38 mm) or the <i>closet</i> shall include a louvered door or transfer grille with a net free area of not less than 30 square inches (194 cm²). 7.Return air shall not be taken from a <i>closet</i>, toilet room, <i>kitchen</i>, garage, or unconditioned <i>attic</i>. Exceptions: 1.Taking return air from a <i>kitchen</i> is not prohibited where such return air openings serve the <i>kitchen</i> only, and are located not less than 10 feet (3048 mm) from the cooking <i>appliances</i>. 2.Dedicated forced-air systems serving only the garage shall not be prohibited from obtaining return air from the garage. 3.<i>Return air taken from closets shall serve only the closet and shall be permitted to be taken from closets that have no dedicated supply duct.</i> 8.For other than dedicated HVAC systems, return air shall not be taken from indoor swimming pool enclosures and associated deck areas except where the air in such spaces is dehumidified. 9.Taking return air from an unconditioned <i>crawl space</i> shall not be accomplished through a direct connection to the return side of a forced-air furnace. Transfer openings in the <i>crawl space</i> enclosure shall not be prohibited. 10.Return air from one dwelling unit shall not be discharged into another dwelling unit.					
CHAPTER 17 COMBUSTION AIR					

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
No Significant Changes in Chapter 17					
CHAPTER 18 CHIMNEYS AND VENTS					

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
No Significant Changes in Chapter 18					
CHAPTER 19 SPECIAL APPLIANCES, EQUIPMENT AND SYSTEMS					

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
No Significant Changes in Chapter 19					
CHAPTER 20 BOILERS AND WATER HEATERS					

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
M2002.4.1	Water Heaters Used for Space Heating	Correlates discharge piping reqs in the IMC	No	NO	
M2002.4.1 Requirements for discharge pipe. The discharge piping serving a pressure relief valve, temperature relief valve or combination valve shall: 1. Not be directly connected to the drainage system. 2. Discharge through an <i>air break</i> located in the same room as the boiler. 3. Not be smaller than the diameter of the outlet of the valve served and shall discharge full size to the air break. 4. Serve a single relief device and shall not connect to piping serving any other relief device or <i>equipment</i>. 5. Discharge to the floor, to the pan serving the boiler or storage tank, to a waste receptor or to the outdoors. 6. Discharge in a manner that does not cause personal injury or structural damage. 7. Discharge to a termination point that is readily observable by the building occupants. 8. Not be trapped. 9. Be installed to flow by gravity. 10. Terminate not more than 6 inches (152 mm) above the floor or waste receptor <i>flood level rim</i>. 11. Not have a threaded connection at the end of the piping. 12. Not have valves or tee fittings. 13. Be constructed of those materials indicated in Section P2906.5 or materials tested, rated and <i>approved</i> for such use in accordance with ASME A112.4.1.					
CHAPTER 21 HYDRONIC PIPING					

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
T M2101.1	Hydronic Piping Systems Installation	Adds Standards for PEX Fittings to Table AASTM F3347 / ASTM F3348	No	NO	

TABLE M2101.1HYDRONIC PIPING AND FITTING MATERIALS

MATERIAL	USE CODE ^a	STANDARD ^b	JOINTS	NOTES
Acrylonitrile butadiene styrene (ABS) plastic pipe	1, 5	ASTM D1527 , ASTM F2806 , ASTM F2969	Solvent cement joints	—
Chlorinated poly (vinyl chloride) (CPVC) pipe and tubing	1, 2, 3	ASTM D2846	Solvent cement joints, compression joints and threaded adapters	—
Copper and copper-alloy pipe	1	ASTM B42 , ASTM B43 , ASTM B302	Brazed, soldered and mechanical fittings threaded, welded and flanged	—
Copper and copper-alloy tubing (Type K, L or M)	1, 2	ASME B16.51 , ASTM B75 , ASTM B88 , ASTM B135 , ASTM B251 , ASTM B306	Brazed, soldered, press-connected and flared mechanical fittings	Joints embedded in concrete shall be brazed
Cross-linked polyethylene (PEX)	1, 2, 3	ASTM F876 , ASTM F3253	(See PEX fittings)	Install in accordance with manufacturer's instructions
Cross-linked polyethylene/aluminum/cross-linked polyethylene (PEX-AL-PEX) pressure pipe	1, 2	ASTM F1281 or CAN/CSA B137.10	Mechanical, crimp/insert	Install in accordance with manufacturer's instructions
PEX fittings	—	ASTM F877 , ASTM F1807 , ASTM F1960 , ASTM F2098 , ASTM F2159 , ASTM F2735 , ASTM F3253 , ASTM F3347 , ASTM F3348	Copper crimp/insert fittings, cold expansion fittings, stainless steel clamp, insert fittings	Install in accordance with manufacturer's instructions
Polybutylene (PB) pipe and tubing	1, 2, 3	ASTM D3309	Heat-fusion, crimp/insert and compression	Joints in concrete shall be heat-fused
Polyethylene/aluminum/polyethylene (PE-AL-PE) pressure pipe	1, 2, 3	ASTM F1282 , CSA B137.9	Mechanical, crimp/insert	—
Polypropylene (PP)	1, 2, 3	ISO 15874 , ASTM F2389	Heat-fusion joints, mechanical fittings, threaded adapters, compression joints	—
Raised temperature polyethylene (PE-RT)	1, 2, 3	ASTM F2623 , ASTM F2769 , CSA B137.18	Copper crimp/insert fitting, stainless steel clamp, insert fittings	—
Raised temperature polyethylene (PE-RT) fittings	1, 2, 3	ASTM D3261 , ASTM F1807 , ASTM F2098 , ASTM F2159 , ASTM F2735 , ASTM F2769 , ASTM F3347 , ASTM F3348 , CSA B137.18	Copper crimp/insert fitting, stainless steel clamp, insert fittings	—
Steel pipe	1, 2	ASTM A53 , ASTM A106	Brazed, welded, threaded, flanged and mechanical fittings	Joints in concrete shall be welded. Galvanized pipe shall not be welded or brazed.
Steel tubing	1	ASTM A254	Mechanical fittings, welded	—

For SI: °C = [(°F) - 32]/1.8.

a. Use code:

1. Above ground.
2. Embedded in radiant systems.
3. Temperatures below 180°F only.
4. Low-temperature (below 130°F) applications only.
5. Temperatures below 160°F only.

b. Standards as listed in [Chapter 44](#).

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
No Significant Changes in Chapter 22					
CHAPTER 23 SOLAR THERMAL ENERGY SYSTEMS					

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
No Significant Changes in Chapter 23					
CHAPTER 24 FUEL GAS					

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
G2407.12	Combustion, Ventilation and Dilution Air	Protects occupants from contaminated air	No	NO	
G2407.12 (304.12)Protection from fumes and gases. Where chemicals that generate corrosive or flammable products such as aerosol sprays are routinely used, one of the following shall apply to fired <i>appliances</i> where these chemicals can enter combustion air: 1.Fired appliances shall be located in a mechanical room separate or partitioned off from other areas with provisions for combustion and dilution air from outdoors. 2.The appliances shall be direct vent and installed in accordance with the appliance manufacturer’s installation instructions.					
G2417.7.3.1	Inspection, Testing and Purging	Prevents hazardous conditions to exist on decommissioned systems	No	NO	
G2417.7.3.1 (406.7.3.1)Abandoned fuel gas piping. Where <i>fuel gas</i> piping is removed from service for an indefinite time period, it shall be <i>purged</i> .					
CHAPTER 25 PLUMBING ADMINISTRATION					
This Chapter is not adopted per WAC 51-51-003. For Plumbing Provisions, see WAC 51-56 . Adoption and Amendment of the Uniform Plumbing Code.					

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
CHAPTER 26 GENERAL PLUMBING REQUIREMENTS					
This Chapter is not adopted per WAC 51-51-003. For Plumbing Provisions, see WAC 51-56 . Adoption and Amendment of the Uniform Plumbing Code.					
CHAPTER 27 PLUMBING FIXTURES					
This Chapter is not adopted per WAC 51-51-003. For Plumbing Provisions, see WAC 51-56 . Adoption and Amendment of the Uniform Plumbing Code.					
CHAPTER 28 WATER HEATERS					
This Chapter is not adopted per WAC 51-51-003. For Plumbing Provisions, see WAC 51-56 . Adoption and Amendment of the Uniform Plumbing Code.					
CHAPTER 29 WATER SUPPLY AND DISTRIBUTION					
This Chapter is not adopted per WAC 51-51-003. For Plumbing Provisions, see WAC 51-56 . Adoption and Amendment of the Uniform Plumbing Code.					
P2904	Dwelling Unit Automatic Sprinkler Systems	See Existing Amendments Report. Only Change across P2904 is the addition of the word “automatic” before sprinkler where the term sprinkler is used.	No	YES	TAG Proposal 24-GP2-045
CHAPTER 30 SANITARY DRAINAGE					
This Chapter is not adopted per WAC 51-51-003. For Plumbing Provisions, see WAC 51-56 . Adoption and Amendment of the Uniform Plumbing Code.					
CHAPTER 31 VENTS					
This Chapter is not adopted per WAC 51-51-003. For Plumbing Provisions, see WAC 51-56 . Adoption and Amendment of the Uniform Plumbing Code.					
CHAPTER 32 TRAPS					
This Chapter is not adopted per WAC 51-51-003. For Plumbing Provisions, see WAC 51-56 . Adoption and Amendment of the Uniform Plumbing Code.					
CHAPTER 33 STORM DRAINAGE					
This Chapter is not adopted per WAC 51-51-003. For Plumbing Provisions, see WAC 51-56 . Adoption and Amendment of the Uniform Plumbing Code.					
CHAPTER 34 GENERAL REQUIREMENTS					
This Chapter is not adopted per WAC 51-51-003. For Electrical Provisions, see WAC 296-46B . Adoption of the National Electric Code.					
CHAPTER 35 ELECTRICAL DEFINITIONS					
This Chapter is not adopted per WAC 51-51-003. For Electrical Provisions, see WAC 296-46B . Adoption of the National Electric Code.					
CHAPTER 36 SERVICES					
This Chapter is not adopted per WAC 51-51-003. For Electrical Provisions, see WAC 296-46B . Adoption of the National Electric Code.					
CHAPTER 37 BRANCH CIRCUIT AND FEEDER REQUIREMENTS					
This Chapter is not adopted per WAC 51-51-003. For Electrical Provisions, see WAC 296-46B . Adoption of the National Electric Code.					
CHAPTER 38 WIRING METHODS					
This Chapter is not adopted per WAC 51-51-003. For Electrical Provisions, see WAC 296-46B . Adoption of the National Electric Code.					
CHAPTER 39 POWER AND LIGHTING DISTRIBUTION					
This Chapter is not adopted per WAC 51-51-003. For Electrical Provisions, see WAC 296-46B . Adoption of the National Electric Code.					

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
CHAPTER 40 DEVICES AND LUMINARIES					
This Chapter is not adopted per WAC 51-51-003. For Electrical Provisions, see WAC 296-46B . Adoption of the National Electric Code.					
CHAPTER 41 APPLIANCE INSTALLATION					
This Chapter is not adopted per WAC 51-51-003. For Electrical Provisions, see WAC 296-46B . Adoption of the National Electric Code.					
CHAPTER 42 SWIMMING POOLS					
This Chapter is not adopted per WAC 51-51-003. For Electrical Provisions, see WAC 296-46B . Adoption of the National Electric Code.					
CHAPTER 43 CLASS 2 REMOTE-CONTROL, SIGNALING AND POWER-LIMITED CIRCUITS					
This Chapter is not adopted per WAC 51-51-003. For Electrical Provisions, see WAC 296-46B . Adoption of the National Electric Code.					
CHAPTER 44 REFERENCED STANDARDS					
ABTG	APPLIED BUIDLING TECHNOLOGY GROUP			NO	
ABTG <i>Applied Building Technology Group LLC6300 Enterprise Lane Madison, WI 53719</i> ANSI/ABTG FS 100—2012 (R2018): Standard Requirements for Wind Pressure Resistance of Foam Plastic Insulation Sheathing Used in Exterior Wall Covering Assemblies R303.8					
ACCA	Air Conditioning Contractors of Amer.			NO	
ACCA <i>Air Conditioning Contractors of America 1330 Braddock Place, Suite 350 Alexandria, VA 22314</i> ANSI/ACCA 1 Manual D—2023: Residential Duct Systems					

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
N1103.3.1, ~~Table R301.2~~, M1601.1, M1602.2 ANSI/ACCA 2 Manual J—2016: Residential Load Calculation Table R301.2, N1103.7, M1401.3 ANSI/ACCA 3 Manual S—2023: Residential Equipment Selection N1103.7, M1401.3, ANSI/ACCA 5 QI—2010: HVAC Quality Installation Specification N1108.2.4					
AHRI	Air Condition, Heating & Refrigeration			NO	
AHRI <i>Air-Conditioning, Heating, & Refrigeration Institute 2111 Wilson Blvd, Suite 500 Arlington, VA 22201</i> AHRI 1380—2019: Demand Response through Variable Capacity HVAC Systems in Residential and Small Commercial Applications N1108.2.8.2					
ALI	Automotive Lift Inst.			NO	
ALI <i>Automotive Lift Institute, Inc. PO Box 85 Cortland, NY 13045</i> ALI ALCTV—2017: Standard for Automotive Lifts—Safety Requirements for Construction, Testing and Validation (ANSI) R317.7					
AMCA	Air Movement and Control Assoc.			NO	
AMCA <i>Air Movement and Control Association International 30 West University Drive Arlington Heights, IL 60004</i> ANSI/AMCA 210- Laboratory Methods of Testing Fans for Aerodynamic Performance Rating ANSI/ASHRAE 51—23 Table N1103.6.2, Table M1504.2, M1505.3					
ANSI	American National Standards Inst.	See Existing Amendment Report		Modify Existing Amendment	

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
A108.1A—17	Installation of Ceramic Tile in the Wet-Set Method, with Portland Cement Mortar				
R702.4.1					
A108.1B—2017	Installation of Ceramic Tile on a Cured Portland Cement Mortar Setting Bed with Dry-Set or Latex Portland Cement Mortar				
R702.4.1					
A108.4—19	Installation of Ceramic Tile with Organic Adhesives or Water-cleanable Tile-setting Epoxy Adhesive				
R702.4.1					
A108.5—21	Setting of Ceramic Tile with Dry-Set Cement Mortar, Modified Dry-Set Cement Mortar, EGP (Exterior Glue Plywood) Modified Dry-Set Cement Mortar, or Improved Modified Dry-Set Cement Mortar				
R702.4.1					
A108.6—99 (R2019)	Installation of Ceramic Tile with Chemical Resistant, Water Cleanable Tile-Setting and -Grouting Epoxy				
R702.4.1					
A108.11—18	Interior Installation of Cementitious Backer Units				
R702.4.1					
A118.1—19	American National Standard Specifications for Dry-Set Portland Cement Mortar				
R702.4.1					
A118.3—21	American National Standard Specifications for Chemical-Resistant, Water-Cleanable Tile-Setting and -Grouting Epoxy and Water Cleanable Tile-Setting Epoxy Adhesive				
R702.4.1					
A118.4—19	American National Standard Specifications for Modified Dry-Set Cement Mortar				
R606.2.11					
A118.10—14 (2019)	Standard Specification for Load-Bearing, Bonded, Waterproof Membranes for Thin-Set Ceramic Tile and Dimension Stone Installation				
P2709.2 P2709.2.4					

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
A136.1—20	American National Standard Specifications for Organic Adhesives for Installation of Ceramic Tile R702.4.1				
A137.1—22	American National Standard Specifications for Ceramic Tile R702.4.1				
ANSI 40.11—1996 (R2017)/CGA 2.91—M96 (R2017)	Gas-Fired, Heat-Activated Air-Conditioning and Heat Pump Appliances G2449.1				
ANSI 117—2020	Standard Specification for Structural Glued Laminated Timber of Softwood Species R502.1.3R602.1.3R802.1.3				
ANSI Z21.5.1—2017/CSA 7.1—17	Gas Clothes Dryers—Volume I—Type 1 Clothes Dryers G2438.1				
ANSI Z21.8—1994 (R2017)	Installation of Domestic Gas Conversion Burners G2443.1				
ANSI Z21.13—2017/CSA 4.9—17	Gas-Fired Low-Pressure Steam and Hot Water Boilers G2452.1				
ANSI Z21.20—2005 (R2016)	Automatic Gas Ignition Systems and Components N1103.13N1104.1.5				
ANSI Z21.22—2015 (R2020)/CSA 4.4—15 (R2020)	Relief Valves for Hot Water Supply Systems P2804.2P2804.7				
ANSI Z21.24—2015 (R2020)/CSA 6.10—15 (R2020)	Connectors for Gas Appliances G2422.1G2422.2				
ANSI Z21.40.1—1996 (R2017)/CGA 2.91—M96 (R2017)	Gas-Fired Heat Activated Air Conditioning and Heat Pump Appliances				

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
G2449.2	A108.1A—17 Installation of Ceramic Tile in the Wet-Set Method, with Portland Cement Mortar				
R702.4.1	A108.1B—2017 Installation of Ceramic Tile on a Cured Portland Cement Mortar Setting Bed with Dry-Set or Latex Portland Cement Mortar				
R702.4.1	A108.4—19 Installation of Ceramic Tile with Organic Adhesives or Water-cleanable Tile-setting Epoxy Adhesive				
R702.4.1	A108.5—21 Setting of Ceramic Tile with Dry-Set Cement Mortar, Modified Dry-Set Cement Mortar, EGP (Exterior Glue Plywood) Modified Dry-Set Cement Mortar, or Improved Modified Dry-Set Cement Mortar				
R702.4.1	A108.6—99 (R2019) Installation of Ceramic Tile with Chemical Resistant, Water Cleanable Tile-Setting and -Grouting Epoxy				
R702.4.1	A108.11—18 Interior Installation of Cementitious Backer Units				
R702.4.1	A118.1—19 American National Standard Specifications for Dry-Set Portland Cement Mortar				
R702.4.1	A118.3—21 American National Standard Specifications for Chemical-Resistant, Water-Cleanable Tile-Setting and -Grouting Epoxy and Water Cleanable Tile-Setting Epoxy Adhesive				
R702.4.1	A118.4—19 American National Standard Specifications for Modified Dry-Set Cement Mortar				
R606.2.11	A118.10—14 (2019) Standard Specification for Load-Bearing, Bonded, Waterproof Membranes for Thin-Set Ceramic Tile and Dimension Stone Installation				

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
	P2709.2P2709.2.4 A136.1—20 American National Standard Specifications for Organic Adhesives for Installation of Ceramic Tile R702.4.1 A137.1— 22 American National Standard Specifications for Ceramic Tile R702.4.1 ANSI 40.11—1996 (R2017)/CGA 2.91—M96 (R2017) Gas-Fired, Heat-Activated Air-Conditioning and Heat Pump Appliances G2449.1 ANSI 117—2020 Standard Specification for Structural Glued Laminated Timber of Softwood Species R502.1.3R602.1.3R802.1.3 ANSI Z21.5.1—2017/CSA 7.1—17 Gas Clothes Dryers—Volume I—Type 1 Clothes Dryers G2438.1 ANSI Z21.8—1994 (R2017) Installation of Domestic Gas Conversion Burners G2443.1 ANSI Z21.13—2017/CSA 4.9—17 Gas-Fired Low-Pressure Steam and Hot Water Boilers G2452.1 ANSI Z21.20—2005 (R2016) Automatic Gas Ignition Systems and Components N1103.13N1104.1.5 ANSI Z21.22— 2015 (R2020)/CSA 4.4—15 (R2020) Relief Valves for Hot Water Supply Systems P2804.2P2804.7 ANSI Z21.24—2015 (R2020)/CSA 6.10— 15 (R2020) Connectors for Gas Appliances G2422.1G2422.2 ANSI Z21.40.1—1996 (R2017)/CGA 2.91—M96 (R2017)				

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
	Gas-Fired Heat Activated Air Conditioning and Heat Pump Appliances G2449.2 ANSI Z21.41—(R2019)/CSA 6.9—(R2019) Quick Disconnect Devices for Use with Gas Fuel Appliances G2422.1 ANSI Z21.50—2019/CSA 2.22—19 Vented Decorative Gas Fireplaces G2434.1 ANSI Z21.60—2017/CSA 2.26—17 Decorative Gas Appliances for Installation in Solid-Fuel-Burning Fireplaces G2432.1 ANSI Z21.69—2015 (2020)/CSA 6.16—15 (R2020) Connectors for Moveable Gas Appliances G2422.1.5 ANSI Z21.75—2016/CSA 6.27—16 (R2020) Connectors for Outdoor Gas Appliances and Manufactured Homes G2422.1 ANSI Z21.84—2017 Standard for Manually Lighted, Natural Gas, Decorative Gas Appliances for Installation in Solid-Fuel-Burning Appliances G2432.1 G2432.2 ANSI Z21.86—2016/CSA 2.32—16 Vented Gas-Fired Space Heating Appliances G2436.1 G2437.1 G2446.1 ANSI Z21.93—2017/CSA 6.30—17 Excess Flow Valves for Natural Gas and Propane Gas with Pressures Up to 5 psig G2421.4 ANSI Z21.97—2017/CSA 2.41—17 Outdoor Decorative Gas Appliances G2453.1 ANSI Z83.8—2016/CSA 2.6—16 Gas Unit Heater, Gas Packaged Heaters, Gas Utility Heaters and Gas-Fired Duct Furnaces G2444.1				

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
	ANSI Z83.19—2017/CSA 2.35—17 Gas-Fired High-Intensity Infrared Heaters G2451.1				
	ANSI Z83.20—2016/CSA 2.34—16 Gas-Fired Tubular and Low-Intensity Infrared Heaters G2451.1				
	ANSI/ASHRAE 140—2017 (R2020) Standard Method of Test for the Evaluation of Building Energy Analysis Computer Programs N1105.5.2N1106.7.1				
	ANSI/CTA 2045-B—February 2021 Modular Communications Interface for Energy Management N1108.2.8.1				
	CSA/ANSI FC 1—21/CSA C22.2 NO. 62282-3-100—21 Fuel Cell Technologies—Part 3-100: Stationary Fuel Cell Power Systems—Safety M1903.1				
	CSA/ANSI LC 1—19/CSA 6.26—19 Fuel Gas Piping Systems Using Corrugated Stainless Steel Tubing (CSST) G2411.3G2414.4.4G2415.5				
	CSA/ANSI LC 4—23/CSA 6.32—23 Press-Connect Metallic Fittings and Valves for Use in Fuel Gas Distribution Systems G2414.9.1G2414.9.2G2414.9.3G2415.5				
	CSA/ANSI Z21.10.1—19/CSA 4.1—19 Gas Water Heaters, Volume I, Storage Water Heaters with Input Ratings of 75,000 Btu per hour or Less G2448.1				
	A108.1A—17 Installation of Ceramic Tile in the Wet-Set Method, with Portland Cement Mortar R702.4.1				
	A108.1B—2017 Installation of Ceramic Tile on a Cured Portland Cement Mortar Setting Bed with Dry-Set or Latex Portland Cement Mortar R702.4.1				
	A108.4—19 Installation of Ceramic Tile with Organic Adhesives or Water-cleanable Tile-setting Epoxy Adhesive				

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
R702.4.1 A108.5—21 Setting of Ceramic Tile with Dry-Set Cement Mortar, Modified Dry-Set Cement Mortar, EGP (Exterior Glue Plywood) Modified Dry-Set Cement Mortar, or Improved Modified Dry-Set Cement Mortar R702.4.1 A108.6—99 (R2019) Installation of Ceramic Tile with Chemical Resistant, Water Cleanable Tile-Setting and -Grouting Epoxy R702.4.1 A108.11—18 Interior Installation of Cementitious Backer Units R702.4.1 A118.1—19 American National Standard Specifications for Dry-Set Portland Cement Mortar R702.4.1 A118.3—21 American National Standard Specifications for Chemical-Resistant, Water-Cleanable Tile-Setting and -Grouting Epoxy and Water Cleanable Tile-Setting Epoxy Adhesive R702.4.1 A118.4—19 American National Standard Specifications for Modified Dry-Set Cement Mortar R606.2.11 A118.10—14 (2019) Standard Specification for Load-Bearing, Bonded, Waterproof Membranes for Thin-Set Ceramic Tile and Dimension Stone Installation P2709.2P2709.2.4 A136.1—20 American National Standard Specifications for Organic Adhesives for Installation of Ceramic Tile R702.4.1 A137.1—22 American National Standard Specifications for Ceramic Tile R702.4.1 ANSI 40.11—1996 (R2017)/CGA 2.91—M96 (R2017) Gas-Fired, Heat-Activated Air-Conditioning and Heat Pump Appliances					

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	G2449.1 ANSI 117—2020 Standard Specification for Structural Glued Laminated Timber of Softwood Species R502.1.3R602.1.3R802.1.3 ANSI Z21.5.1—2017/CSA 7.1—17 Gas Clothes Dryers—Volume I—Type 1 Clothes Dryers G2438.1 ANSI Z21.8—1994 (R2017) Installation of Domestic Gas Conversion Burners G2443.1 ANSI Z21.13—2017/CSA 4.9—17 Gas-Fired Low-Pressure Steam and Hot Water Boilers G2452.1 ANSI Z21.20—2005 (R2016) Automatic Gas Ignition Systems and Components N1103.13N1104.1.5 ANSI Z21.22—2015 (R2020)/CSA 4.4—15 (R2020) Relief Valves for Hot Water Supply Systems P2804.2P2804.7 ANSI Z21.24—2015 (R2020)/CSA 6.10—15 (R2020) Connectors for Gas Appliances G2422.1G2422.2 ANSI Z21.40.1—1996 (R2017)/CGA 2.91—M96 (R2017) Gas-Fired Heat Activated Air Conditioning and Heat Pump Appliances G2449.2 ANSI Z21.41—(R2019)/CSA 6.9—(R2019) Quick Disconnect Devices for Use with Gas Fuel Appliances G2422.1 ANSI Z21.50—2019/CSA 2.22—19 Vented Decorative Gas Fireplaces G2434.1 ANSI Z21.60—2017/CSA 2.26—17				

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	Decorative Gas Appliances for Installation in Solid-Fuel-Burning Fireplaces G2432.1 ANSI Z21.69—2015 (2020)/CSA 6.16—15 (R2020) Connectors for Moveable Gas Appliances G2422.1.5 ANSI Z21.75—2016/CSA 6.27—16 (R2020) Connectors for Outdoor Gas Appliances and Manufactured Homes G2422.1 ANSI Z21.84—2017 Standard for Manually Lighted, Natural Gas, Decorative Gas Appliances for Installation in Solid-Fuel-Burning Appliances G2432.1G2432.2 ANSI Z21.86—2016/CSA 2.32—16 Vented Gas-Fired Space Heating Appliances G2436.1G2437.1G2446.1 ANSI Z21.93—2017/CSA 6.30—17 Excess Flow Valves for Natural Gas and Propane Gas with Pressures Up to 5 psig G2421.4 ANSI Z21.97—2017/CSA 2.41—17 Outdoor Decorative Gas Appliances G2453.1 ANSI Z83.8—2016/CSA 2.6—16 Gas Unit Heater, Gas Packaged Heaters, Gas Utility Heaters and Gas-Fired Duct Furnaces G2444.1 ANSI Z83.19—2017/CSA 2.35—17 Gas-Fired High-Intensity Infrared Heaters G2451.1 ANSI Z83.20—2016/CSA 2.34—16 Gas-Fired Tubular and Low-Intensity Infrared Heaters G2451.1 ANSI/ASHRAE 140—2017 (R2020) Standard Method of Test for the Evaluation of Building Energy Analysis Computer Programs N1105.5.2N1106.7.1				

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
	ANSI/CTA 2045-B—February 2021 Modular Communications Interface for Energy Management N1108.2.8.1 CSA/ANSI FC 1—21/CSA C22.2 NO. 62282-3-100—21 Fuel Cell Technologies—Part 3-100: Stationary Fuel Cell Power Systems—Safety M1903.1 CSA/ANSI LC 1—19/CSA 6.26—19 Fuel Gas Piping Systems Using Corrugated Stainless Steel Tubing (CSST) G2411.3G2414.4.4G2415.5 CSA/ANSI LC 4—23/CSA 6.32—23 Press-Connect Metallic Fittings and Valves for Use in Fuel Gas Distribution Systems G2414.9.1G2414.9.2G2414.9.3G2415.5 CSA/ANSI Z21.10.1—19/CSA 4.1—19 Gas Water Heaters, Volume I, Storage Water Heaters with Input Ratings of 75,000 Btu per hour or Less G2448.1 CSA/ANSI Z21.10.3—19/CSA 4.3—19 Gas Water Heaters—Volume III—Storage Water Heaters with Input Ratings above 75,000 Btu per Hour, Circulating and Instantaneous G2448.1 CSA/ANSI Z21.11.2—19 Gas-Fired Room Heaters, Volume II, Unvented Room Heaters G2445.1 CSA/ANSI Z21.15—22/CSA 9.1—22 Manually Operated Gas Valves for Appliances, Appliance Connector Valves and Hose End Valves Table G2420.1.1 CSA/ANSI Z21.42—13 (R2018) Gas-Fired Illuminating Appliances G2450.1 CSA/ANSI Z21.54—19/CSA 8.4—19 Gas Hose Connectors for Portable Outdoor Gas-Fired Appliances G2422.1 CSA/ANSI Z21.56—19/CSA 4.7—19 Gas-Fired Pool Heaters				

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
G2441.1	A108.1A—17 Installation of Ceramic Tile in the Wet-Set Method, with Portland Cement Mortar				
R702.4.1	A108.1B—2017 Installation of Ceramic Tile on a Cured Portland Cement Mortar Setting Bed with Dry-Set or Latex Portland Cement Mortar				
R702.4.1	A108.4—19 Installation of Ceramic Tile with Organic Adhesives or Water-cleanable Tile-setting Epoxy Adhesive				
R702.4.1	A108.5—21 Setting of Ceramic Tile with Dry-Set Cement Mortar, Modified Dry-Set Cement Mortar, EGP (Exterior Glue Plywood) Modified Dry-Set Cement Mortar, or Improved Modified Dry-Set Cement Mortar				
R702.4.1	A108.6—99 (R2019e) Installation of Ceramic Tile with Chemical Resistant, Water Cleanable Tile-Setting and -Grouting Epoxy				
R702.4.1	A108.11—18 Interior Installation of Cementitious Backer Units				
R702.4.1	A118.1—19 American National Standard Specifications for Dry-Set Portland Cement Mortar				
R702.4.1	A118.3—21 American National Standard Specifications for Chemical-Resistant, Water-Cleanable Tile-Setting and -Grouting Epoxy and Water Cleanable Tile-Setting Epoxy Adhesive				
R702.4.1	A118.4—19 American National Standard Specifications for Modified Dry-Set Cement Mortar				
R606.2.11	A118.10—14 (2019) Standard Specification for Load-Bearing, Bonded, Waterproof Membranes for Thin-Set Ceramic Tile and Dimension Stone Installation				

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
	P2709.2P2709.2.4 A136.1—20 American National Standard Specifications for Organic Adhesives for Installation of Ceramic Tile R702.4.1 A137.1— 22 American National Standard Specifications for Ceramic Tile R702.4.1 ANSI 40.11—1996 (R2017)/CGA 2.91—M96 (R2017) Gas-Fired, Heat-Activated Air-Conditioning and Heat Pump Appliances G2449.1 ANSI 117—2020 Standard Specification for Structural Glued Laminated Timber of Softwood Species R502.1.3R602.1.3R802.1.3 ANSI Z21.5.1—2017/CSA 7.1—17 Gas Clothes Dryers—Volume I—Type 1 Clothes Dryers G2438.1 ANSI Z21.8—1994 (R2017) Installation of Domestic Gas Conversion Burners G2443.1 ANSI Z21.13—2017/CSA 4.9—17 Gas-Fired Low-Pressure Steam and Hot Water Boilers G2452.1 ANSI Z21.20—2005 (R2016) Automatic Gas Ignition Systems and Components N1103.13N1104.1.5 ANSI Z21.22— 2015 (R2020)/CSA 4.4—15 (R2020) Relief Valves for Hot Water Supply Systems P2804.2P2804.7 ANSI Z21.24—2015 (R2020)/CSA 6.10— 15 (R2020) Connectors for Gas Appliances G2422.1G2422.2 ANSI Z21.40.1—1996 (R2017)/CGA 2.91—M96 (R2017)				

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
	Gas-Fired Heat Activated Air Conditioning and Heat Pump Appliances G2449.2 ANSI Z21.41—(R2019)/CSA 6.9—(R2019) Quick Disconnect Devices for Use with Gas Fuel Appliances G2422.1 ANSI Z21.50—2019/CSA 2.22—19 Vented Decorative Gas Fireplaces G2434.1 ANSI Z21.60—2017/CSA 2.26—17 Decorative Gas Appliances for Installation in Solid-Fuel-Burning Fireplaces G2432.1 ANSI Z21.69—2015 (2020)/CSA 6.16—15 (R2020) Connectors for Moveable Gas Appliances G2422.1.5 ANSI Z21.75—2016/CSA 6.27—16 (R2020) Connectors for Outdoor Gas Appliances and Manufactured Homes G2422.1 ANSI Z21.84—2017 Standard for Manually Lighted, Natural Gas, Decorative Gas Appliances for Installation in Solid-Fuel-Burning Appliances G2432.1 G2432.2 ANSI Z21.86—2016/CSA 2.32—16 Vented Gas-Fired Space Heating Appliances G2436.1 G2437.1 G2446.1 ANSI Z21.93—2017/CSA 6.30—17 Excess Flow Valves for Natural Gas and Propane Gas with Pressures Up to 5 psig G2421.4 ANSI Z21.97—2017/CSA 2.41—17 Outdoor Decorative Gas Appliances G2453.1 ANSI Z83.8—2016/CSA 2.6—16 Gas Unit Heater, Gas Packaged Heaters, Gas Utility Heaters and Gas-Fired Duct Furnaces G2444.1				

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
	ANSI Z83.19—2017/CSA 2.35—17 Gas-Fired High-Intensity Infrared Heaters G2451.1				
	ANSI Z83.20—2016/CSA 2.34—16 Gas-Fired Tubular and Low-Intensity Infrared Heaters G2451.1				
	ANSI/ASHRAE 140—2017 (R2020) Standard Method of Test for the Evaluation of Building Energy Analysis Computer Programs N1105.5.2N1106.7.1				
	ANSI/CTA 2045-B—February 2021 Modular Communications Interface for Energy Management N1108.2.8.1				
	CSA/ANSI FC 1—21/CSA C22.2 NO. 62282-3-100—21 Fuel Cell Technologies—Part 3-100: Stationary Fuel Cell Power Systems—Safety M1903.1				
	CSA/ANSI LC 1—19/CSA 6.26—19 Fuel Gas Piping Systems Using Corrugated Stainless Steel Tubing (CSST) G2411.3G2414.4.4G2415.5				
	CSA/ANSI LC 4—23/CSA 6.32—23 Press-Connect Metallic Fittings and Valves for Use in Fuel Gas Distribution Systems G2414.9.1G2414.9.2G2414.9.3G2415.5				
	CSA/ANSI Z21.10.1—19/CSA 4.1—19 Gas Water Heaters, Volume I, Storage Water Heaters with Input Ratings of 75,000 Btu per hour or Less G2448.1				
	CSA/ANSI Z21.10.3—19/CSA 4.3—19 Gas Water Heaters—Volume III—Storage Water Heaters with Input Ratings above 75,000 Btu per Hour, Circulating and Instantaneous G2448.1				
	CSA/ANSI Z21.11.2—19 Gas-Fired Room Heaters, Volume II, Unvented Room Heaters G2445.1				
	CSA/ANSI Z21.15—22/CSA 9.1—22 Manually Operated Gas Valves for Appliances, Appliance Connector Valves and Hose End Valves				

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	Table G2420.1.1 CSA/ANSI Z21.42—13 (R2018) Gas-Fired Illuminating Appliances G2450.1 CSA/ANSI Z21.54—19/CSA 8.4—19 Gas Hose Connectors for Portable Outdoor Gas-Fired Appliances G2422.1 CSA/ANSI Z21.56—19/CSA 4.7—19 Gas-Fired Pool Heaters G2441.1 CSA/ANSI Z21.58—22/CSA 1.6—22 Outdoor Cooking Gas Appliances G2447.1 CSA/ANSI Z21.80—19/CSA 6.22—19 Line Pressure Regulators G2421.1 CSA/ANSI Z21.88—19/CSA 2.33—19 Vented Gas Fireplace Heaters N1103.13.1G2435.1 CSA/ANSI Z21.90—19/CSA 6.24—19 Gas Convenience Outlets and Optional Enclosures G2422.1 CSA/ANSI Z21.91—20 Ventless Firebox Enclosures for Gas-Fired Unvented Decorative Room Heaters G2445.7.1 CSA/Z21.40.2/CGA 2.92—96 (R2017) Gas-Fired Work Activated Air-Conditioning and Heat Pump Appliances (Internal Combustion) G2449.1 CSA/Z21.47—21/CSA 2.3—21 Gas-Fired Central Furnaces G2442.1 Z21.1/CSA 1.1—2018				

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Household Cooking Gas Appliances M1503.2G2447.1 Z21.8—94 (R2017) Installation of Domestic Gas Conversion Burners G2443.1 Z21.50—19/CSA 2.22—2019 Vented Decorative Gas Appliances N1103.13.1 Z83.6—90 (R1998) Gas-Fired Infrared Heaters G2451.1 Z83.20—2016 Gas-Fired Tubular Low-Intensity Infrared Heaters G2451.1 Z97.1—2015 (R2020) Safety Glazing Materials Used in Buildings—Safety Performance Specifications and Methods of Test R324.1.1R324.3.1					
APA	The Engineered Wood Association			NO	
ANSI/APA A190.1—2022 Product Standard for Structural Glued-laminated Timber R502.1.3R602.1.3R802.1.2 ANSI/APA PRG 320—2019 Standard for Performance-rated Cross Laminated Timber R502.1.6R602.1.6R802.1.5 ANSI/APA PRP 210—2019 Standard for Performance-rated Engineered Wood Siding R604.1Table R703.3(1)R703.3.4 ANSI/APA PRR 410—2021 Standard for Performance-rated Engineered Wood Rim Boards R502.1.7R602.1.7R802.1.6					

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ANSI/APA PRS 610.1—2023 Standard for Performance-Rated Structural Insulated Panels in Wall Applications R602.1.11R610.3R610.4 APA E30—19 Engineered Wood Construction Guide Table R503.2.1.1(1)R503.2.2R803.2.2R803.2.3					
ASCE/SEI	American Society of Civil Engineers			NO	
7—2022 Minimum Design Loads and Associated Criteria for Buildings and Other Structures R301.2.1.1R301.2.1.2R301.2.1.5R301.2.1.5.1Table R608.6(1)Table R608.6(2)Table R608.6(3)Table R608.6(4)Table R608.7.1.1(1)Table R608.7.1.1(2)Table R608.7.1.1(3)R608.9.2R608.9.3R609.2R609.6.2 24—14 Flood Resistant Design and Construction R301.2.4R301.2.4.1R306.1R306.1R306.1.1R306.1.6R306.1.9R306.2.2R306.3.3 32—01 Design and Construction of Frost-protected Shallow Foundations R403.1.4.1					
ASHRAE	ASHRAE			YES	State Amendment adds 62.2-2019. A 2022 version is available.
ANSI/ASHRAE/IES 90.1—2022 Energy Standard for Sites and Buildings Except Low-Rise Residential Buildings N1102.1.5 ASHRAE 34—2022 Designation Classification of Refrigerants M1411.1 ASHRAE 193—2010(RA 2014) Method of Test for Determining the Airtightness of HVAC Equipment					

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N1103.3.6.1 ASHRAE—2001 2001 ASHRAE Handbook of Fundamentals N1105.4.2Table N1105.4.2(1)N1102.1.5N1103.3.1 ASHRAE—2017 ASHRAE Handbook of Fundamentals N1102.1.5P3001.2P3101.4					
ASME	American Society of Mechanical Engineers			NO	
A18.1—2023 Safety Standard for Platforms and Stairway Chair Lifts R323.2 A112.1.2—2012(R2017) Air Gaps in Plumbing Systems (For Plumbing Fixtures and Water Connected Receptors) P2717.1Table P2902.3P2902.3.1 A112.1.3—2000 (R2024) Air Gap Fittings for Fixtures, Appliances and Appurtenances Table P2701.1P2717.1Table P2902.3P2902.3.1 A112.3.1—2007 (R2017) Stainless Steel Drainage Systems for Sanitary, DWV, Storm and Vacuum Applications Above and Below Ground Table P3002.1(1)Table P3002.1(2)Table P3002.2Table P3002.3Table P3302.1 A112.3.4—2022/CSA B45.9—2022 Macerating Toilet Systems and Related Components Table P2701.1P3007.5 A112.4.1—2024 Water Heater Relief Valve Drain Tubes P2804.6.1 A112.4.3—2024 Plastic Fittings for Connecting Water Closets to the Sanitary Drainage System P3003.14 A112.4.4—2022					

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	Plastic Push-Fit Drain, Waste, and Vent (DWV) Fittings Table P3002.3P3003.9.4 A112.4.14—2022/CSA B125.14—2022 Manually Operated Valves for Use in Plumbing Systems Table P2903.10.4 A112.6.2—2017 (R2022) Framing-affixed Supports (Carriers) for Off-the-Floor Water Closets with Concealed Tanks Table P2701.1P2702.4 A112.6.3—2022 Floor and Trench Drains Table P2701.1 A112.14.1—2003 (R2022) Backwater Valves P3008.3 A112.18.1—2023/CSA B125.1—2023 Plumbing Supply Fittings Table P2701.1P2708.5P2722.1P2722.3P2902.2Table P2903.10.4 A112.18.2—2023/CSA B125.2—2023 Plumbing Waste Fittings Table P2701.1P2702.2 A112.18.3—2002 (R2022) Performance Requirements for Backflow Protection Devices and Systems in Plumbing Fixture Fittings P2708.5P2722.3 A112.18.6—2021/CSA B125.6—21 Flexible Water Connectors P2906.7 A112.19.1—2022/CSA B45.2—2022 Enameled Cast-iron and Enameled Steel Plumbing Fixtures Table P2701.1P2711.1 A112.19.2—2021/CSA B45.1—2021 Ceramic Plumbing Fixtures Table P2701.1P2705.1P2711.1P2712.1P2712.2P2712.9				

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	A112.19.3—2021/CSA B45.4—2021 Stainless Steel Plumbing Fixtures Table P2701.1P2705.1P2711.1P2712.1 A112.19.5—2022/CSA B45.15—2022 Flush Valves and Spuds for Water-closets, Urinals and Tanks Table P2701.1 A112.19.7—2023/CSA B45.10—2023 Hydromassage Bathtub Systems Table P2701.1 A112.19.12—2024 Wall-mounted and Pedestal-mounted, Adjustable, Elevating, Tilting, and Pivoting Lavatory and Sink, and Shampoo Bowl Carrier Systems and Drain Waste Systems Table P2701.1P2711.4P2714.2 A112.19.14—2013 (R2023) Six-Liter Water Closets Equipped with Dual Flushing Device P2712.1 A112.19.15—2012 (R2022) Bathtub/Whirlpool Bathtubs with Pressure-sealed Doors Table P2701.1P2713.2 A112.36.2M—1991 (R2022) Cleanouts P3005.2.10.2 ASME A17.1—2022/CSA B44—2022 Safety Code for Elevators and Escalators R323.1 ASME A112.4.2—2021/CSA B45.16—2021 Personal Hygiene Devices for Water Closets P2722.5 ASSE 1002—2020/ASME A112.1002—2020/CSA B125.12—20 Anti-Siphon Fill Valves for Water Closet Tanks Table P2701.1Table P2902.3P2902.4.1 ASSE 1016—2021/ASME A112.1016—2021/CSA B125.16—2021				

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	Performance Requirements for Automatic Compensating Valves for Individual Showers and Tub/Shower Combinations Table P2701.1P2708.4P2722.2 ASSE 1070—2020/ASME A112.1070—2020/CSA B125.1070—20 Performance Requirements for Water Temperature Limiting Devices P2713.3P2721.2 B1.20.1—2023 Pipe Threads, General Purpose (Inch) G2414.9P3003.3.3P3003.6.4P3003.7.1P3003.9.3 B16.3—2016 Malleable Iron Threaded Fittings, Classes 150 & 300 Table P2906.6 B16.4—2016 Gray Iron Threaded Fittings Classes 125 and 250 Table P2906.6Table P3002.3 B16.9—2023 Factory-made Wrought Steel Buttwelding Fittings Table P2906.6 B16.11—2021 Forged Fittings, Socket-welding and Threaded Table P2906.6 B16.12—2024 Cast Iron Threaded Drainage Fittings Table P3002.3 B16.15—2023 Cast Alloy Threaded Fittings: Classes 125 and 250 Table P2906.6Table P3002.3 B16.18—2023 Cast Copper Alloy Solder Joint Pressure Fittings Table P2906.6Table P3002.3 B16.22—2023 Wrought Copper and Copper Alloy Solder-Joint Pressure Fittings Table P2906.6Table P3002.3				

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B16.23—2016	Cast Copper Alloy Solder Joint Drainage Fittings DWV Table P3002.3				
B16.26—2023	Cast Copper Alloy Fittings for Flared Copper Tubes Table P2906.6 Table P3002.3				
B16.28—1994	Wrought Steel Buttwelding Short Radius Elbows and Returns Table P2906.6				
B16.29—2022	Wrought Copper and Wrought Copper Alloy Solder Joint Drainage Fittings (DWV) Table P3002.3				
B16.33—2022	Manually Operated Metallic Gas Valves for Use in Gas Piping Systems up to 125 psig (Sizes 1/2 through 2) Table G2420.1.1				
B16.34—2023	Valves—Flanged, Threaded and Welding End Table P2903.10.4				
B16.44—2022	Manually Operated Metallic Gas Valves for Use in Aboveground Piping Systems up to 5 psi Table G2420.1.1				
B16.51—2018	Copper and Copper Alloy Press-Connect Pressure Fittings Table M2101.1 M2103.3 Table P2906.6				
B36.10M—2023	Welded and Seamless Wrought Steel Pipe G2414.4.2				
BPVC—2023	ASME Boiler and Pressure Vessel Code (Sections I, II, IV, V, VI and VIII) M2001.1.1 G2452.1				
CSD-1—2024	Controls and Safety Devices for Automatically Fired Boilers				

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M2001.1.1G2452.1					
ASSE	ASSE International			NO	
1001—2017 Performance Requirements for Atmospheric-type Vacuum Breakers Table P2902.3P2902.3.2 1003—2020 Performance Requirements for Water-pressure-reducing Valves for Domestic Water Distribution Systems P2903.3.1 1008—2020 Performance Requirements for Plumbing Aspects of Residential Food Waste Disposer Units Table P2701.1 1010—2004 Performance Requirements for Water Hammer Arresters P2903.5 1011—2017 Performance Requirements for Hose Connection Vacuum Breakers Table P2902.3P2902.3.2 1012—2009 Performance Requirements for Backflow Preventers with an Intermediate Atmospheric Vent Table P2902.3P2902.3.3P2902.5.1P2902.5.5.3 1013—2021 Performance Requirements for Reduced Pressure Principle Backflow Prevention Assemblies Table P2902.3P2902.3.5P2902.5.1P2902.5.5.3 1015—2021 Performance Requirements for Double Check Backflow Prevention Assemblies Table P2902.3P2902.3.6 1017—2009 Performance Requirements for Temperature Actuated Mixing Valves for Hot Water Distribution Systems P2724.1P2802.1P2803.2 1018—2021 Performance Requirements for Trap Seal Primer Valves—Potable Water Supplied					

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P3201.2.1.1 P3201.2.1.2 1019—2011	Performance Requirements for Wall Hydrant with Backflow Protection and Freeze Resistance				
Table P2701.1 Table P2902.3 P2902.3.2 1020—2020	Performance Requirements for Pressure Vacuum Breaker Assembly				
Table P2902.3 P2902.3.4 1023—2020	Performance Requirements for Electrically Heated or Cooled Water Dispensers				
Table P2701.1 1024—2021	Performance Requirements for Dual Check Backflow Preventers				
Table P2902.3 P2902.3.7 1035—2020	Performance Requirements for Laboratory Faucet Backflow Preventers				
Table P2902.3 P2902.3.2 1044—2015 (R2020)	Performance Requirements for Trap Seal Primer—Drainage Types and Electric Design Types				
P3201.2.1.3 1047—2021	Performance Requirements for Reduced Pressure Detector Fire Protection Backflow Prevention Assemblies				
Table P2902.3 P2902.3.5 1048—2021	Performance Requirements for Double Check Detector Fire Protection Backflow Prevention Assemblies				
Table P2902.3 P2902.3.6 1050—2021	Performance Requirements for Stack Air Admittance Valves for Sanitary Drainage Systems				
P3114.1 1051—2021	Performance Requirements for Individual and Branch Type Air Admittance Valves for Sanitary Drainage Systems				
P3114.1 1052—2016					

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	Performance Requirements for Hose Connection Backflow Preventers Table P2701.1Table P2902.3P2902.3.2 1056—2013 (R2021) Performance Requirements for Spill Resistant Vacuum Breaker Assemblies Table P2902.3P2902.3.4 1060—2017 (R2021) Performance Requirements for Outdoor Enclosures for Fluid-conveying Components P2902.6.1 1061—2020 Performance Requirements for Push-Fit Fittings Table P2906.6P2906.21 1062—2021 Performance Requirements for Temperature-actuated, Flow Reduction (TAFR) Valves for Individual Supply Fittings Table P2701.1P2724.2 1066—1997 Performance Requirements for Individual Pressure Balancing In-line Valves for Individual Fixture Fittings P2722.4 1072—2020 Performance Requirements for Trap Seal Protection for Floor Drains P3201.2.1.4 1081—2014 (R2020) Performance Requirements for Backflow Preventers with Integral Pressure Reducing Boiler Feed Valve and Intermediate Atmospheric Vent Style for Domestic and Light Commercial Water Distribution Systems Table P2902.3P2902.3.3 ASSE 1002—2020/ASME A112.1002—2020/CSA B125.12—20 Anti-Siphon Fill Valves for Water Closet Tanks Table P2701.1Table P2902.3P2902.4.1 ASSE 1016—2017/ASME 112.1016—2017/CSA B125.16—2017 Performance Requirements for Automatic Compensating Valves for Individual Showers and Tub/Shower Combinations Table P2701.1P2708.4P2722.2 ASSE 1037—2015/ASME A112.1037—2015/CSA B125.37—15 Performance Requirements for Pressurized Flushing Devices for Plumbing Fixtures				

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Table P2701.1 ASSE 1070—2020/ASME A112.1070—2020/ CSA B125.70—20 Performance Requirements for Water Temperature Limiting Devices P2713.3P2721.2P2724.1					
ASTM	ASTM International			NO	
A36/A36M—19 Specification for Carbon Structural Steel R608.5.2.2 A53/A53M—2020 Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated Welded and Seamless R407.3Table M2101.1G2414.4.2Table P2906.4Table P2906.5Table P3002.1(1) A74—2021 Specification for Cast Iron Soil Pipe and Fittings Table P3002.1(1)Table P3002.1(2)Table P3002.2Table P3002.3P3005.2.6Table P3302.1 A106/A106M—2019a Specification for Seamless Carbon Steel Pipe for High-Temperature Service Table M2101.1G2414.4.2 A123/A123M—2017 Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products Table R507.2.3 A126—04(2019) Standard Specification for Gray Iron Castings for Valves, Flanges and Pipe Fittings Table P2903.10.4 A153/A153M—2016A Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware R304.3Table R507.2.3Table R606.3.4.1R703.6.3R905.7.6R905.8.7 A167—99(2009) Specification for Stainless and Heat-resisting Chromium-Nickel Steel Plate, Sheet and Strip Table R606.3.4.1 A240/A240M—20a Standard Specification for Chromium and Chromium-Nickel Stainless Steel Plate, Sheet and Strip for Pressure Vessels and for General Applications					

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	Table R905.10.3(1) A254—A254M—12(2019) Specification for Copper-Brazed Steel Tubing Table M2101.1G2414.5.1 A268/A268M—20 Standard Specification for Seamless and Welded Ferritic and Martensitic Stainless Steel Tubing for General Service G2414.5.2 A269/A269M—15a(2019) Standard Specification for Seamless and Welded Austenitic Stainless Steel Tubing for General Service G2414.5.2 A307—21 Standard Specification for Carbon Steel Bolts, Studs, and Threaded Rod 60,000 PSI Tensile Strength Table R507.2.3R608.5.2.2 A312/A312M—21 Specification for Seamless, Welded and Heavily Cold Worked Austenitic Stainless Steel Pipes Table P2906.4Table P2906.5Table P2906.6P2906.13.2 A463/A463M—15(2020)e1 Standard Specification for Steel Sheet, Aluminum-Coated by the Hot-dip Process Table R905.10.3(2) A539—99 Specification for Electric-Resistance-Welded Coiled Steel Tubing for Gas and Fuel Oil Lines M2202.1 A563/A563M—21a Standard Specification for Carbon and Alloy Steel Nuts Table R507.2.3 A615/A615M—20 Standard Specification for Deformed and Plain Carbon-Steel Bars for Concrete Reinforcement R402.3.1R403.1.3.5.1R404.1.3.3.7.1R608.5.2.1 A641/A641M—19 Specification for Zinc-coated (Galvanized) Carbon Steel Wire Table R507.2.3Table R606.3.4.1R703.6.3R905.7.6R905.8.7 A653/A653M—20				

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	Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process R505.2.2Table R507.2.3R603.2.2Table R606.3.4.1R608.5.2.3R804.2.2R804.2.3Table R905.10.3(1)Table R905.10.3(2)M1601.1.1 A706/A706M—2016 Standard Specification for Deformed and Plain Low Alloy Bars for Concrete Reinforcement R402.3.1R403.1.3.5.1R404.1.3.3.7.1R608.5.2.1 A755/A755M—18 Specification for Steel Sheet, Metallic Coated by the Hot-Dip Process and Prepainted by the Coil-Coating Process for Exterior Exposed Building Products Table R905.10.3(2) A778/A778M—16(2021) Standard Specification for Welded Unannealed Austenitic Stainless Steel Tubular Products Table P2906.4Table P2906.5Table P2906.6 A792/A792M—21a Specification for Steel Sheet, 55% Aluminum-zinc Alloy-Coated by the Hot-Dip Process R505.2.2R603.2.2R608.5.2.3R804.2.2Table R905.10.3(2) A875/A875M—21 Specification for Steel Sheet, Zinc-5%, Aluminum Alloy-Coated by the Hot-Dip Process R608.5.2.3Table R905.10.3(2) A888—21a Specification for Hubless Cast Iron Soil Pipe and Fittings for Sanitary and Storm Drain, Waste, and Vent Piping Application Table P3002.1(1)Table P3002.1(2)Table P3002.2Table P3002.3Table P3302.1 A924/A924M—20 Standard Specification for General Requirements for Steel Sheet, Metallic-Coated by the Hot-Dip Process Table R905.10.3(1) A996M—2016 Specifications for Rail-Steel and Axle-Steel Deformed Bars for Concrete Reinforcement R403.1.3.5.1Table R404.1.3.2(9)R404.1.3.3.7.1R608.5.2.1Table R608.5.4(2) A1003/A1003M—15 Standard Specification for Steel Sheet, Carbon, Metallic and Nonmetallic-Coated for Cold-Formed Framing Members R505.2.1R505.2.2R603.2.1R603.2.2R804.2.1R804.2.2 B32—20 Specification for Solder Metal P3003.6.3				

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	B42—20 Specification for Seamless Copper Pipe, Standard Sizes Table M2101.1 Table P2906.4 Table P2906.5 Table P3002.1(1) B43—20 Specification for Seamless Red Brass Pipe, Standard Sizes Table M2101.1 Table P2906.4 Table P2906.5 Table P3002.1(1) B75/B75M—20 Specification for Seamless Copper Tube Table M2101.1 Table P2906.4 Table P2906.5 Table P3002.1(1) Table P3002.1(2) Table P3002.2 B88—20 Specification for Seamless Copper Water Tube Table M2101.1 G2414.5.2 Table P2906.4 Table P2906.5 Table P3002.1(1) Table P3002.1(2) Table P3002.2 B101—12(2019) Specification for Lead-Coated Copper Sheet and Strip for Building Construction Table R905.2.8.2 Table R905.10.3(1) B135/B135M—17 Specification for Seamless Brass Tube Table M2101.1 B209—21 Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate Table R905.10.3(1) B251/B251M—2017 Specification for General Requirements for Wrought Seamless Copper and Copper-Alloy Tube Table M2101.1 Table P2906.4 Table P2906.5 Table P3002.1(1) Table P3002.1(2) Table P3002.2 B280—20 Specification for Seamless Copper Tube for Air Conditioning and Refrigeration Field Service G2414.4.3 B302—17 Specification for Threadless Copper Pipe, Standard Sizes Table M2101.1 Table P2906.4 Table P2906.5 Table P3002.1(1) B306—20 Specification for Copper Drainage Tube (DWV)				

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	Table M2101.1 Table P3002.1(1) Table P3002.1(2) B370—12(2019) Specification for Copper Sheet and Strip for Building Construction Table R905.2.8.2 Table R905.10.3(1) Table P2701.1 B447—12a(2021) Specification for Welded Copper Tube Table P2906.4 Table P2906.5 B695—2021 Standard Specification for Coatings of Zinc Mechanically Deposited on Iron and Steel Table R507.2.3 B813—2016 Specification for Liquid and Paste Fluxes for Soldering of Copper and Copper Alloy Tube Table M2101.1 M2103.3P2906.15P3003.6.3 B828—2016 Practice for Making Capillary Joints by Soldering of Copper and Copper Alloy Tube and Fittings M2103.3P2906.15P3003.6.3 C4—2004(2018) Specification for Clay Drain Tile and Perforated Clay Drain Tile Table P3302.1 C5—2018 Specification for Quicklime for Structural Purposes R702.2.1 C14—20 Specification for Nonreinforced Concrete Sewer, Storm Drain and Culvert Pipe Table P3002.2 C22/C22M—00(2021) Specification for Gypsum R702.2.1R702.3.1 C27—1998(2018) Specification for Standard Classification of Fireclay and High-Alumina Refractory Brick R1001.5 C28/C28M—10(2020)				

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	Specification for Gypsum Plasters R702.2.1 C33/C33M—2018 Specification for Concrete Aggregates R403.4.1 C34—2017 Standard Specification for Structural Clay Loadbearing Wall Tile Table R301.2(1)R606.2.2 C35/C35M—01(2019) Standard Specification for Inorganic Aggregates for Use in Gypsum Plaster R702.2.1 C55—2017 Specification for Concrete Building Brick R202Table R301.2(1)R606.2.1 C56—2013(2017) Standard Specification for Structural Clay Nonloadbearing Tile R606.2.2 C59/C59M—00(2020) Specification for Gypsum Casting Plaster and Molding Plaster R702.2.1 C61/C61M—00(2020) Specification for Gypsum Keene's Cement R702.2.1 C62—2017 Standard Specification for Building Brick (Solid Masonry Units Made from Clay or Shale) R202Table R301.2(1)R606.2.2 C73—2017 Specification for Calcium Silicate Brick (Sand-Lime Brick) R202Table R301.2(1)R606.2.1 C76—22 Specification for Reinforced Concrete Culvert, Storm Drain and Sewer Pipe Table P3002.2				

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	C90—21 Specification for Loadbearing Concrete Masonry Units Table R301.2(1)R606.2.1 C91/C91M—2018 Specification for Masonry Cement R702.2.2R703.7.2 C94/C94M—21b Standard Specification for Ready-Mixed Concrete R404.1.3.3.2R608.5.1.2 C126—19 Standard Specification for Ceramic Glazed Structural Clay Facing Tile, Facing Brick, and Solid Masonry Units R606.2.2 C129—2017 Specification for Nonload-Bearing Concrete Masonry Units Table R301.2(1) C143/C143M—20 Test Method for Slump of Hydraulic Cement Concrete R404.1.3.3.4R608.5.1.4 C145—85 Specification for Solid Load-Bearing Concrete Masonry Units R202Table R301.2(1) C150/C150M—21 Specification for Portland Cement R608.5.1.1R702.7.2 C199—1984(2016) Test Method for Pier Test for Refractory Mortars R1001.5R1001.8R1003.12 C207—2018 Specification for Hydrated Lime for Masonry Purposes Table R606.2.8 C208—22 Specification for Cellulosic Fiber Insulating Board				

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	R602.1.10Table R602.3(1)Table R906.2 C212—21 Standard Specification for Structural Clay Facing Tile R606.2.2 C216—21 Specification for Facing Brick (Solid Masonry Units Made from Clay or Shale) R202Table R301.2(1)R606.2.2 C270—19ae1 Specification for Mortar for Unit Masonry R606.2.8Table R606.2.8R606.2.11 C315—2007(2021) Specification for Clay Flue Liners and Chimney Pots R1001.8R1003.11.1Table R1003.14(1)G2425.12 C406/C406M—2015 Specification for Roofing Slate R905.6.4 C411—19 Test Method for Hot-Surface Performance of High-Temperature Thermal Insulation M1601.3 C425—21 Specification for Compression Joints for Vitrified Clay Pipe and Fittings Table P3002.2P3003.10P3003.13 C443—21 Specification for Joints for Concrete Pipe and Manholes, Using Rubber Gaskets P3003.5P3003.13 C475/C475M—2017 Specification for Joint Compound and Joint Tape for Finishing Gypsum Board R702.3.1 C476—20 Specification for Grout for Masonry R606.2.12 C503/C503M—2015				

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	Standard Specification for Marble Dimension Stone R606.2.4 C514—04(2020) Standard Specification for Nails for the Application of Gypsum Board R702.3.1 C552—22 Standard Specification for Cellular Glass Thermal Insulation Table R906.2 C557—2003(2017) Specification for Adhesives for Fastening Gypsum Wallboard to Wood Framing R702.3.1.1 C564—20a Specification for Rubber Gaskets for Cast Iron Soil Pipe and Fittings P3003.4.2P3003.4.3P3003.13 C568M—2015 Standard Specification for Limestone Dimension Stone R606.2.4 C578—19 Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation R403.3Table R703.8.4(2)Table R703.15.1Table R703.15.2Table R703.16.1Table R703.16.2Table R906.2 C587—2004(2018) Specification for Gypsum Veneer Plaster R702.2.1 C595/C595M—21 Specification for Blended Hydraulic Cements R608.5.1.1R702.2.2R703.7.2 C615/C615M—2018E1 Standard Specification for Granite Dimension Stone R606.2.4 C616/C616M—2015 Standard Specification for Quartz-Based Dimension Stone R606.2.4				

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	C629/C629M—2015 Standard Specification for Slate Dimension Stone R606.2.4 C631—09(2020) Standard Specification for Bonding Compounds for Interior Gypsum Plastering R702.2.1 C645—2018 Specification for Nonstructural Steel Framing Members R702.3.3 C652—21 Specification for Hollow Brick (Hollow Masonry Units Made from Clay or Shale) R202Table R301.2(1)R606.2.2 C685/C685M—2017 Specification for Concrete Made by Volumetric Batching and Continuous Mixing R404.1.3.3.2R608.5.1.2 C700—2018 Specification for Vitrified Clay Pipe, Extra Strength, Standard Strength and Perforated Table P3002.2Table P3002.3Table P3302.1 C726—2017 Standard Specification for Mineral Wool Roof Insulation Board Table R906.2 C728—2017A Standard Specification for Perlite Thermal Insulation Board Table R906.2 C744—2021 Standard Specification for Prefaced Concrete and Calcium Silicate Masonry Units R606.2.1 C836/C836M—2018(2022) Specification for High Solids Content, Cold Liquid-Applied Elastomeric Waterproofing Membrane for Use with Separate Wearing Course R905.14.2 C841—2003(2018) Standard Specification for Installation of Interior Lathing and Furring				

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	R702.2.1 C842—05(2021) Standard Specification for Application of Interior Gypsum Plaster R702.2.1 C843—2017 Specification for Application of Gypsum Veneer Plaster R702.2.1 C844—2015(2021) Specification for Application of Gypsum Base to Receive Gypsum Veneer Plaster R702.2.1 C847—18 Specification for Metal Lath R702.2.1R702.2.2 C887—20 Specification for Packaged, Dry, Combined Materials for Surface Bonding Mortar R406.1R606.2.9 C897—15(2020) Specification for Aggregate for Job-Mixed Portland Cement-Based Plasters R702.2.2 C920—2018 Standard Specification for Elastomeric Joint Sealants R406.4.1 C926—21 Specification for Application of Portland Cement-Based Plaster R702.2.2R702.2.2.1R703.7.2R703.7.2.1R703.7.4 C933—2018 Specification for Welded Wire Lath R702.2.1R702.2.2 C946—2018 Standard Practice for Construction of Dry-Stacked, Surface-Bonded Walls R606.2.9 C954—2018				

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D2737—21	Standard Specification for Polyethylene (PE) Plastic Tubing				
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	R202Table R806.5M1411.12M1601.4.6 E108—20a Standard Test Methods for Fire Tests of Roof Coverings R302.2.4R902.1 E119—20 Standard Test Methods for Fire Tests of Building Construction and Materials Table R302.1(1)Table R302.1(2)R302.2.1R302.2.2R302.3R302.4.1R302.11.1R606.2.2 E136—2022 Standard Test Method for Assessing Combustibility of Materials Using a Vertical Tube Furnace at 750 Degrees C R202R302.11 E283/E283M—19 Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Skylights, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen R202N1102.5.4 E330/E330M—14(2021) Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference R609.4R609.5R609.6.2R703.1.2 E331—2000(2016) Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference R703.1.1 E408—13(2019) Standard Test Methods for Total Normal Emittance of Surfaces Using Inspection-Meter Techniques Table N1107.2N1108.2.1.3 E779—19 Standard Test Method for Determining Air Leakage Rate by Fan Pressurization N1102.5.1.2N1102.5.1.3 E814—2013A(2017) Standard Test Method for Fire Tests of Penetration Firestop Systems R302.4.1.2 E903—20 Standard Test Method for Solar Absorptance, Reflectance and Transmittance of Materials Using Integrating Spheres (Withdrawn 2005) Table N1107.2N1108.2.1.3N1108.2.1.3.1				

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	E970—2017 Standard Test Method for Critical Radiant Flux of Exposed Attic Floor Insulation Using a Radiant Heat Energy Source R302.10.4 E1509—2012(2017) Standard Specification for Room Heaters, Pellet Fuel-Burning Type M1410.1 E1554/E1554 M—13(2018) Standard Test Methods for Determining Air Leakage of Air Distribution Systems by Fan Pressurization Table N1105.4.2(1)N1103.3.7N1103.3.8 E1592—2005(2017) Test Method for Structural Performance of Sheet Metal Roof and Siding Systems by Uniform Static Air Pressure Difference R905.10.5 E1602—2003(2017) Guide for Construction of Solid Fuel Burning Masonry Heaters R1002.2 E1745—17 Standard Specification for Plastic Water Vapor Retarders Used in Contact with Soil or Granular Fill under Concrete Slabs R506.3.3 E1827—11(2017) Standard Test Methods for Determining Airtightness of Buildings Using an Orifice Blower Door N1102.5.1.2 E1886—19 Standard Test Method for Performance of Exterior Windows, Curtain Walls, Doors, and Impact Protective Systems Impacted by Missile(s) and Exposed to Cyclic Pressure Differentials R301.2.1.2R609.6.1R609.6.2Table R703.11.2 E1918—21 Standard Test Method for Measuring Solar Reflectance of Horizontal and Low-Sloped Surfaces in the Field Table N1107.2N1108.2.1.3N1108.2.1.3.1 E1980—11(2019) Standard Practice for Calculating Solar Reflectance of Horizontal and Low-sloped Opaque Surfaces Table N1107.2N1108.2.1.3 E1996—20				

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	Specification for Performance of Exterior Windows, Curtain Walls, Doors, and Impact Protective Systems Impacted by Windborne Debris in Hurricanes R301.2.1.2R609.6.1R609.6.2 E2178—21a Standard Test Method for Determining Air Leakage Rate and Calculation of Air Permeance of Building Materials R202N1101.10.5 E2231—21 Standard Practice for Specimen Preparation and Mounting of Pipe and Duct Insulation Materials to Assess Surface Burning Characteristics M1601.3 E2273—2018 Standard Test Method for Determining the Drainage Efficiency of Exterior Insulation and Finish Systems (EIFS) Clad Wall Assemblies R703.9.2 E2556/E2556M—2010(2016) Standard Specification for Vapor Permeable Flexible Sheet Water-resistive Barriers Intended for Mechanical Attachment R703.2 E2568—2017A Standard Specification for PB Exterior Insulation and Finish Systems R703.9.1R703.9.2 E2570/E2570M—07(2019) Standard Test Methods for Evaluating Water-Resistive Barrier (WRB) Coatings Used under Exterior Insulation and Finish Systems (EIFS) or EIFS with Drainage R703.9.2 E2634—2018 Standard Specification for Flat Wall Insulating Concrete Form (ICF) Systems R404.1.3.3.6.1R608.4.4 E2925—19a Standard Specification for Manufactured Polymeric Drainage and Ventilation Materials Used to Provide a Rainscreen Function R703.7.3.2 E3158—18 Standard Test Method for Measuring the Air Leakage Rate of a Large or Multizone Building N1102.5.1.2 F405—05 Specification for Corrugated Polyethylene (PE) Pipe and Fittings				

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	Table P3009.11 Table P3302.1 F409—2017 Specification for Thermoplastic Accessible and Replaceable Plastic Tube and Tubular Fittings Table P2701.1 P2702.2 P2702.3 F437—21 Standard Specification for Threaded Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe Fittings, Schedule 80 Table P2906.6 F438—2017 Standard Specification for Socket-Type Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe Fittings, Schedule 40 Table P2906.6 F439—19 Standard Specification for Socket Type Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe Fittings, Schedule 80 Table P2906.6 F441/F441M—20 Specification for Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe, Schedules 40 and 80 Table P2906.4 Table P2906.5 F442/F442M—20 Specification for Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe (SDR-PR) Table P2906.4 Table P2906.5 F477—14(2021) Specification for Elastomeric Seals (Gaskets) for Joining Plastic Pipe P2906.18 P3003.13 F493—20 Specification for Solvent Cements for Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe and Fittings P2906.9.1.2 P2906.9.1.3 P2906.18.2 F628—2012E2 Specification for Acrylonitrile-Butadiene-Styrene (ABS) Schedule 40 Plastic Drain, Waste, and Vent Pipe with a Cellular Core Table P3002.1(1) Table P3002.1(2) Table P3002.2 Table P3002.3 P3003.3.2 F656—21 Specification for Primers for Use in Solvent Cement Joints of Poly(Vinyl Chloride) (PVC) Plastic Pipe and Fittings P2906.9.1.4 P3003.9.2 F667/F667M—16(2021)				

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	Standard Specification for 3 through 24 in. Corrugated Polyethylene Pipe and Fittings Table P3009.11 Table P3302.1 F714—21a Standard Specification for Polyethylene (PE) Plastic Pipe (SDR-PR) Based on Outside Diameter Table P3002.1(2) Table P3002.2 P3010.4 F844—19 Standard Specification for Washers, Steel, Plain (Flat), Unhardened for General Use Table R507.2.3 F876—20b Standard Specification for Crosslinked Polyethylene (PEX) Tubing Table M2101.1 Table P2906.4 Table P2906.5 F877—20 Standard Specification for Crosslinked Polyethylene (PEX) Plastic Hot- and Cold-Water Distribution Systems Table M2101.1 Table P2906.6 F891—2016 Standard Specification for Coextruded Poly(Vinyl Chloride) (PVC) Plastic Pipe with a Cellular Core Table P3002.1(1) Table P3002.1(2) Table P3002.2 Table P3302.1 F1055—2016A Standard Specification for Electrofusion Type Polyethylene Fittings for Outside Diameter Controlled Polyethylene and Crosslinked Polyethylene Pipe and Tubing Table M2105.5 M2105.11.2 P2906.20.2 F1281—2017(2021)e1 Standard Specification for Crosslinked Polyethylene/Aluminum/Crosslinked Polyethylene (PEX-AL-PEX) Pressure Pipe Table M2101.1 Table P2906.4 Table P2906.5 Table P2906.6 P2906.12.1 F1282—2017 Specification for Polyethylene/Aluminum/Polyethylene (PE-AL-PE) Composite Pressure Pipe Table M2101.1 Table P2906.4 Table P2906.5 Table P2906.6 P2906.12.1 F1412—2016 Specification for Polyolefin Pipe and Fittings for Corrosive Waste Drainage Table P3002.1(2) Table P3002.2 Table P3002.3 P3003.11.1 F1488—14(2019) Standard Specification for Coextruded Composite Pipe				

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	Table P3002.1(1)Table P3002.1(2)Table P3002.2Table P3009.11 F1504—21 Standard Specification for Folded Poly (Vinyl Chloride) (PVC) for Existing Sewer and Conduit Rehabilitation P3011.4 F1554—20 Specification for Anchor Bolts, Steel, 36, 55 and 105-ksi Yield Strength R608.5.2.2 F1667—21a Specification for Driven Fasteners: Nails, Spikes, and Staples Table R507.2.3Table R602.3(1)R703.3.3R703.6.3Table R703.15.1Table R703.15.2R905.2.5 F1807—19b Standard Specification for Metal Insert Fittings Utilizing a Copper Crimp Ring, or Alternate Stainless Steel Clamps, for SDR9 Cross-Linked Polyethylene (PEX) Tubing and SDR9 Polyethylene of Raised Temperature (PE-RT) Tubing Table M2101.1Table P2906.6 F1866—2018 Specification for Poly (Vinyl Chloride) (PVC) Plastic Schedule 40 Drainage and DWV Fabricated Fittings Table P3002.3 F1871—20 Standard Specification for Folded/Formed Poly (Vinyl Chloride) Pipe Type A for Existing Sewer and Conduit Rehabilitation P3011.4 F1924—19 Standard Specification for Plastic Mechanical Fittings for Use on Outside Diameter Controlled Polyethylene Gas Distribution Pipe and Tubing M2105.11.1 F1960—21 Standard Specification for Cold Expansion Fittings with PEX Reinforcing Rings for Use with Cross-Linked Polyethylene (PEX) and Polyethylene of Raised Temperature (PE-RT) Tubing Table M2101.1Table P2906.6 F1970—19 Standard Specification for Special Engineered Fittings, Appurtenances or Valves for Use in Poly (Vinyl Chloride) (PVC) or Chlorinated Poly (Vinyl Chloride) (CPVC) Systems Table M2105.5Table P2903.9.4 F1973—21				

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	Standard Specification for Factory Assembled Anodeless Risers and Transition Fittings in Polyethylene (PE) and Polyamide 11 (PA11) and Polyamide 12 (PA12) Fuel Gas Distribution Systems G2415.17.2 F1974—09(2020) Specification for Metal Insert Fittings for Polyethylene/Aluminum/Polyethylene and Crosslinked Polyethylene/Aluminum/Crosslinked Polyethylene Composite Pressure Pipe Table P2906.6P2906.12.1 F1986—2001(2011) Specification for Multilayer Pipe Type 2, Compression Fittings, and Compression Joints for Hot and Cold Drinking-Water Systems Table P2906.4Table P2906.5Table P2906.6 F2080—19 Standard Specification for Cold-Expansion Fittings with Metal Compression-Sleeves for Crosslinked Polyethylene (PEX) Pipe and SDR9 Polyethylene of Raised Temperature (PE-RT) Pipe Table P2906.6 F2090—21 Specification for Window Fall Prevention Devices with Emergency Escape (Egress) Release Mechanisms R319.1.1R321.2.1R321.2.2 F2098—18 Standard Specification for Stainless Steel Clamps for Securing SDR9 Cross-Linked Polyethylene (PEX) Tubing and SDR9 Polyethylene of Raised Temperature (PE-RT) to Metal Insert and Plastic Insert Fittings Table M2101.1Table P2906.6 F2159—21 Standard Specification for Plastic Insert Fittings Utilizing a Copper Crimp Ring, or Alternate Stainless Steel Clamps for SDR9 Crosslinked Polyethylene (PEX) Tubing and SDR9 Polyethylene of Raised Temperature (PE-RT) Tubing Table P2906.6 F2262—09 Specification for Crosslinked Polyethylene/Aluminum/Crosslinked Polyethylene Tubing OD Controlled SDR9 Table P2906.4Table P2906.5 F2389—21 Standard Specification for Pressure-Rated Polypropylene (PP) Piping Systems Table P2906.4Table P2906.5Table P2906.6P2906.11.1 F2434—19				

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
	Standard Specification for Metal Insert Fittings Utilizing a Copper Crimp Ring for SDR9 Cross-Linked Polyethylene (PEX) Tubing and SDR9 Cross-Linked Polyethylene/Aluminum/Cross-Linked Polyethylene (PEX AL-PEX) Tubing Table P2906.6 F2623—22 Standard Specification for Polyethylene of Raised Temperature (PE-RT) Systems for Non-Potable Water Applications Table M2101.1 F2735—21 Standard Specification for Plastic Insert Fittings for SDR9 Cross-Linked Polyethylene (PEX) and Polyethylene of Raised Temperature (PE-RT) Tubing Table M2101.1 Table P2906.6 F2769—18 Standard Specification for Polyethylene of Raised Temperature (PE-RT) Plastic Hot- and Cold-Water Tubing and Distribution Systems Table M2101.1 Table P2906.4 Table P2906.5 Table P2906.6 F2806—20 Standard Specification for Acrylonitrile-Butadiene-Styrene (ABS) Plastic Pipe (Metric SDR-PR) Table M2101.1 F2855—19 Standard Specification for Chlorinated Poly(Vinyl Chloride)/Aluminum/Chlorinated Poly(Vinyl Chloride) (CPVC-AL-CPVC) Composite Pressure Tubing Table P2906.4 Table P2906.5 F2945—2018 Standard Specification for Polyamide 11 Gas Pressure Pipe, Tubing and Fittings G2414.6 F2969—12(2020) Standard Specification for Acrylonitrile-Butadiene-Styrene (ABS) IPS Dimensioned Pressure Pipe Table M2101.1 F3226/F3226M—19 Standard Specification for Metallic Press-Connect Fittings for Piping and Tubing Systems Table P2906.6 F3253—19 Standard Specification for Crosslinked Polyethylene (PEX) Tubing with Oxygen Barrier for Hot- and Cold-Water Hydronic Distribution Systems Table M2101.1 F3328—19				

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	Standard Practice for the One-Step (Solvent Cement Only) Method of Joining Poly (Vinyl Chloride) (PVC) or Chlorinated Poly (Vinyl Chloride) (CPVC) Pipe and Piping Components with Tapered Sockets Table M2101.1P2906.9.1.3 F3347—20a Standard Specification for Metal Press Insert Fittings with Factory Assembled Stainless Steel Press Sleeve for SDR9 Cross-Linked Polyethylene (PEX) Tubing and SDR9 Polyethylene of Raised Temperature (PE-RT) Tubing Table M2101.1 F3348—20b Standard Specification for Plastic Press Insert Fittings with Factory Assembled Stainless Steel Press Sleeve for SDR9 Cross-Linked Polyethylene (PEX) Tubing and SDR9 Polyethylene of Raised Temperature (PE-RT) Tubing Table M2101.1 F3371—19 Standard Specification for Polyolefin Pipe and Fittings for Drainage, Waste, and Vent Applications Table P3002.1(1)Table P3002.1(2)Table P3002.2P3003.11.1				
AWC	American Wood Council			NO	
	ANSI/AWC NDS—2024 National Design Specification (NDS) for Wood Construction—with 2018 Supplement R404.2.2R502.2Table R503.1R507.2.1R602.3R608.9.2R608.9.3Table R703.15.1Table R703.15.2R802.2 ANSI/AWC PWF—2021 Permanent Wood Foundation Design Specification R304.3.2R401.1R404.2.3 ANSI/AWC WFCM—2024 Wood Frame Construction Manual for One- and Two-Family Dwellings R301.1.1R301.2.1.1R602.10.8.2Figure R608.9(9)R608.9.2R608.9.3R608.10 AWC STJR—2024 Span Tables for Joists and Rafters R502.3R802.4.1R802.5.1				
AWPA	American Wood Protection Council			NO	
C1—03					

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All Timber Products—Preservative Treatment by Pressure Processes R902.2 M4—21 Standard for the Handling, Storage, Field Fabrication, and Field Treatment of Preservative-treated Wood Products R304.1.1R305.1.2 U1—23 USE CATEGORY SYSTEM: User Specification for Treated Wood Except Commodity Specification H R304.1R402.1.2R504.3R703.6.3R905.7.6Table R905.8.5R905.8.7					
AWS	American Welding Society			NO	
A5.8M/A5.8—2019 Specification for Filler Metals for Brazing and Braze Welding P3003.6.1 ANSI/AWS A5.31M/A5.31—2012 Specification for Fluxes for Brazing and Braze Welding Edition: 2nd M2103.3M2202.2P2906.15					
AWWA	American Water Works Association			NO	
C104/A21.4—16 Cement-mortar Lining for Ductile-iron Pipe and Fittings P2906.4 C110/A21.10—21 Ductile-iron and Gray-iron Fittings Table P2906.6P3002.3 C115/A21.15—20 Flanged Ductile-iron Pipe with Ductile-iron or Gray-iron Threaded Flanges Table P2906.4 C151/A21.51—17 Ductile-Iron Pipe, Centrifugally Cast Table P2906.4 C153/A21.53—19					

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	Ductile-Iron Compact Fittings Table P2906.6 C500—19 Metal-Seated Gate Valves for Water Supply Service Table P2903.10.4 C504—15 Rubber-Seated Butterfly Valves Table P2903.10.4 C507—18 Ball Valves, 6 In. Through 60 In. (150 mm through 1,500 mm) Table P2903.10.4 C510—17 Double Check Valve Backflow Prevention Assembly Table P2902.3P2902.3.6 C511—17 Reduced-pressure Principle Backflow Prevention Assembly Table P2902.3P2902.3.5P2902.5.1 C901—20 Polyethylene (PE) Pressure Pipe and Tubing 3/4 Inch (19 mm) through 3 In. (76 mm), for Water Service P2906.4 C903—21 Polyethylene-Aluminum-Polyethylene (PE-AL-PE) Composite Pressure Pipe, (12 mm) (1/2 in.) through 51 mm (2 in.), for Water Service Table M2105.4 C904—16 Crosslinked Polyethylene (PEX) Pressure Tubing, 1/2 in. (13 mm) through 3 in. (76 mm), for Water Service P2906.4				
CISPI	Cast Iron Soil Pipe Institute			NO	
	301—21 Standard Specification for Hubless Cast Iron Soil Pipe and Fittings for Sanitary and Storm Drain, Waste and Vent Piping Applications Table P3002.1(1)Table P3002.1(2)Table P3002.2Table P3002.3Table P3302.1 310—20				

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Standard Specification for Coupling for Use in Connection with Hubless Cast Iron Soil Pipe and Fittings for Sanitary and Storm Drain, Waste and Vent Piping Applications P3003.4.3					
CPA	Composite Panel Association			NO	
ANSI A135.4—2012(R2020) Basic Hardboard Table R602.3(2) ANSI A135.5—2012(R2020) Prefinished Hardboard Paneling R702.5 ANSI A135.6—2012(R2020) Engineered Wood Siding R703.5 ANSI A135.7—2012(R2020) Engineered Wood Trim R703.5 ANSI A208.1—2016 Particleboard R503.3.1R602.1.9R605.1					
CRRC	Cool Roof Rating Council			NO	
ANSI/CRRC-S100-2021 Standard Test Methods for Determining Radiative Properties of Materials Table N1107.2N1108.2.1.3N1108.2.1.3.1					
CSA	CSA Group			NO	
A112.18.6—2021/CSA B125.6—21 Flexible Water Connectors P2906.7 A112.19.5—2022/CSA B45.15—22 Flush Valves and Spuds for Water Closets, Urinals and Tanks					

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	Table P2701.1 A112.19.7—20/CSA B45.10—20 Hydromassage Bathtub Systems Table P2701.1 A257.2—19 Reinforced Circular Concrete Culvert, Storm Drain, Sewer Pipe and Fittings Table P3002.2P3003.13 A257.3—19 Joints for Circular Concrete Sewer and Culvert Pipe, Manhole Sections and Fittings Using Rubber Gaskets P3003.5P3003.13 AAMA/WDMA/CSA 101/I.S.2/A440—22 North American Fenestration Standard/Specification for Windows, Doors, and Skylights R609.3N1102.5.3 ANSI/CSA/IGSHPA C448 Series—16(R2021) Design and Installation of Ground Source Heat Pump Systems for Commercial and Residential Buildings Table M2105.4Table M2105.5 ASME A17.1—2022/CSA B44—22 Safety Code for Elevators and Escalators R323.1 ASME A112.3.4—2018/CSA B45.9—18(R2023) Macerating Toilet Systems and Waste Pumping Systems for Plumbing Fixtures Table P2701.1P3007.5 ASME A112.4.2—2021/CSA B45.16—21 Personal Hygiene Devices for Water Closets P2722.5 ASME A112.18.1—2023/CSA B125.1—23 Plumbing Supply Fittings Table P2701.1P2708.4P2708.5P2722.1P2722.3P2902.2Table P2903.10.4 ASME A112.18.2—2023/CSA B125.2—23 Plumbing Waste Fittings Table P2701.1P2702.2 ASME A112.19.1—2023/CSA B45.2—23				

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	Enamelled Cast-iron and Enamelled Steel Plumbing Fixtures Table P2701.1P2711.1 ASME A112.19.2—2023/CSA B45.1—23 Ceramic Plumbing Fixtures Table P2701.1P2705.1P2711.1P2712.1P2712.2P2712.9 ASME A112.19.3—2022/CSA B45.4—22 Stainless Steel Plumbing Fixtures Table P2701.1P2705.1P2711.1P2712.1 ASSE 1002—2020/ASME A112.1002—2020/CSA B125.12—20 Anti-Siphon Fill Valves for Water Closet Tanks Table P2701.1Table P2902.3P2902.4.1 ASSE 1016—2017/ASME 112.1016—2017/CSA B125.16—(R2022) Performance Requirements for Automatic Compensating Valves for Individual Showers and Tub/Shower Combinations Table P2701.1P2708.4P2722.2 ASSE 1070—2020/ASME A112.1070—2020/CSA B125.70—20 Performance Requirements for Water Temperature Limiting Devices P2713.3P2721.2P2724.1 B55.1—20 Test Method for Measuring Efficiency and Pressure Loss of Drain Water Heat Recovery Units N1103.5.4 B55.2—20 Drain Water Heat Recovery Units N1103.5.4 B64.1.1—21 Vacuum Breakers, Atmospheric Type (AVB) Table P2902.3P2902.3.2 B64.1.2—21 Pressure Vacuum Breakers (PVB) Table P2902.3P2902.3.4 B64.1.3—21 Spill Resistant Pressure Vacuum Breakers (SRPVB) Table P2902.3				

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B64.2—21	Vacuum Breakers, Hose Connection Type (HCVB)				
	Table P2902.3P2902.3.2				
B64.2.1—21	Hose Connection Vacuum Breakers (HCVB) with Manual Draining Feature				
	Table P2902.3P2902.3.2				
B64.2.1.1—21	Hose Connection Dual Check Vacuum Breakers (HCDVB)				
	Table P2902.3P2902.3.2				
B64.2.2—21	Vacuum Breakers, Hose Connection Type (HCVB) with Automatic Draining Feature				
	Table P2902.3P2902.3.2				
B64.3—21	Dual Check Backflow Preventers with Atmospheric Port (DCAP)				
	Table P2902.3P2902.3.2P2902.5.1				
B64.4—21	Reduced Pressure Principle (RP) Backflow Preventers				
	Table P2902.3P2902.3.5				
B64.4.1—21	Reduced Pressure Principle Backflow Preventers for Fire Protection Systems (RPF)				
	Table P2902.3P2902.3.5				
B64.5—21	Double Check Backflow Preventers (DCVA)				
	Table P2902.3P2902.3.6				
B64.5.1—21	Double Check Valve Backflow Preventers for Fire Protection Systems (DCVAF)				
	Table P2902.3P2902.3.6				
B64.6—21	Dual Check Valve (DuC) Backflow Preventers				
	Table P2902.3P2902.3.7				
B64.7—21	Laboratory Faucet Vacuum Breakers (LFVB)				

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	Table P2902.3P2902.3.2 B125.3—23 Plumbing Fittings Table P2701.1P2713.3P2721.2Table P2902.3P2902.4.1Table P2903.10.4 B137.1—23 Polyethylene (PE) Pipe, Tubing and Fittings for Cold-water Pressure Services Table P2906.4Table P2906.6 B137.2—23 Polyvinylchloride (PVC) Injection-moulded Gasketed Fittings for Pressure Applications Table P2906.6 B137.3—23 Rigid Polyvinylchloride (PVC) Pipe and Fittings for Pressure Applications Table P2906.4Table P2906.6P3003.9.2 B137.5—23 Crosslinked Polyethylene (PEX) Tubing Systems for Pressure Applications Table P2906.4Table P2906.5Table P2906.6 B137.6—23 Chlorinated polyvinylchloride (CPVC) Pipe, Tubing and Fittings For Hot- and Cold-water Distribution Systems Table P2906.4Table P2906.5Table P2906.6 B137.9—23 Polyethylene/Aluminum/Polyethylene (PE-AL-PE) Composite Pressure-pipe Systems Table M2101.1Table P2906.4 B137.10—23 Crosslinked Polyethylene/Aluminum/Crosslinked Polyethylene (PEX-AL-PEX) Composite Pressure-pipe Systems Table M2101.1Table P2906.4Table P2906.5Table P2906.6P2906.12.1 B137.11—23 Polypropylene (PP-R & PP-RCT) pipe and fittings for pressure applications Table P2906.4Table P2906.5Table P2906.6 B137.18—23 Polyethylene of Raised Temperature (PE-RT) Tubing Systems for Pressure Applications Table M2101.1Table M2105.4Table M2105.5Table P2906.4Table P2906.5Table P2906.6 B181.1—21				

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	Acrylonitrile-Butadiene-Styrene (ABS) Drain, Waste, and Vent Pipe and Pipe Fittings Table P3002.1(1)Table P3002.1(2)Table P3002.3P3003.3.2 B181.2—21 Polyvinylchloride (PVC) Drain and Chlorinated Polyvinylchloride (CPVC) Drain, Waste, and Vent Pipe and Pipe Fittings Table P3002.1(1)Table P3002.1(2)P3003.9.2P3008.3 B181.3—21 Polyolefin and Polyvinylidene Fluoride (PVDF) Laboratory Drainage Systems Table P3002.1(1)Table P3002.1(2)Table P3002.2Table P3002.3P3003.11.1 B182.1—21 Plastic Drain and Sewer Pipe and Pipe Fittings Table P3302.1 B182.2—21 PSM Type polyvinylchloride (PVC) Sewer Pipe and Fittings Table P3002.2Table P3302.1 B182.4—21 Profile Polyvinylchloride (PVC) Sewer Pipe and Fittings Table P3002.2Table P3302.1 B182.6—21 Profile Polyethylene (PE) Sewer Pipe and Fittings for Leak-Proof Sewer Applications Table P3302.1 B182.8—21 Profile Polyethylene (PE) Storm Sewer and Drainage Pipe and Fittings Table P3302.1 B356—10(R2020) Water Pressure Reducing Valves for Domestic Water Supply Systems P2903.3.1 B483.1—22 Drinking Water Treatment Systems P2909.1P2909.2 B602—20 Mechanical Couplings for Drain, Waste and Vent Pipe and Sewer Pipe P3003.3.1P3003.4.3P3003.5P3003.9.1P3003.10P3003.12.2P3003.13				

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C22.2 No. 218.1—13(R2017)	Spas, Hot Tubs and Associated Equipment				
M2006.1					
C22.2 No. 236—15	Heating and Cooling Equipment				
M2006.1					
CAN/CSA-C439—18					
Laboratory methods of test for rating the performance of heat/energy-recovery ventilators					
Table N1103.6.2					
CSA 8—93	Requirements for Gas-fired Log Lighters for Wood Burning Fireplaces				
G2433.1					
CSA A257.1—19	Non-reinforced Circular Concrete Culvert, Storm Drain, Sewer Pipe and Fittings				
Table P3002.2					
CSA B45.5—22/IAPMO Z124—2022					
Plastic Plumbing Fixtures					
Table P2701.1P2711.1P2711.2P2712.1					
CSA B55.1—20					
Test Method for Measuring Efficiency and Pressure Loss of Drain Water Heat Recovery Units					
N1103.5.3					
CSA B55.2—20					
Drain Water Heat Recovery Units					
N1103.5.3					
CSA B805—22/ICC 805—2022					
Rainwater Harvesting Systems					
P2912.1					
CSA O325—21					
Construction Sheathing					
R503.2.1R602.1.8R604.1R803.2.1					
CSA/ANSI FC 1—21/CSA C22.2 No. 62282-2-100—21					
Fuel Cell Technologies—Part 3-100: Stationary Fuel Cell Power Systems—Safety					

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M1903.1 O437-Series—93(R2011) Standards on OSB and Waferboard R503.2.1R602.1.8R604.1R803.2.1 P.4.1—2021 Testing method for measuring fireplace efficiency N1103.13.1 UL/CSA 60335-2-40—2022 Household and Similar Electrical Appliances—Safety—Part 2-40: Particular Requirements for Electrical Heat Pumps, Air-Conditioners and Dehumidifiers M1403.1M1412.1M1413.1					
CTA	Consumer Technology Association Technology and Standards Department			NO	
ANSI/CTA-2045-A—2018 Modular Communications Interface for Energy Management Table N1103.5.4 N1108.2.8.1 ANSI/CTA-2045-B—2018 Modular Communications Interface for Energy Management Table N1103.5.4 N1108.2.8.1					
DASMA	Door and Access Systems Manufacturers Association International			NO	
ANSI/DASMA 105—2020 Test Method for Thermal Transmittance and Air Infiltration of Garage Doors and Rolling Doors N1101.10.3 ANSI/DASMA 108—2017 Standard Method for Testing Sectional Doors, Rolling Doors and Flexible Doors: Determination of Structural Performance Under Uniform Static Air Pressure Difference R609.4 ANSI/DASMA 115—2017					

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Standard Method for Testing Sectional Doors, Rolling Doors and Flexible Doors: Determination of Structural Performance Under Missile Impact and Cyclic Wind Pressure R301.2.1.2					
DHA	Decorative Hardwoods Association			NO	
ANSI/HPVA HP-1—2022 American National Standard for Hardwood and Decorative Plywood R702.5					
DOC	US Department of Commerce			NO	
PS 1—22 Structural Plywood R404.2.1Table R404.2.3R503.2.1R602.1.8R604.1R803.2.1 PS 2—18 Performance Standard for Wood Structural Panels R404.2.1Table R404.2.3R503.2.1R602.1.8R604.1R803.2.1 PS 20—20 American Softwood Lumber Standard R404.2.1R502.1.1R602.1.1R802.1.1					
DOE	US Department of Energy			NO	
10 CFR, Part 430—2021 Energy Conservation Program for Consumer Products: Energy and Water Conservation Standards and their compliance dates. Table N1103.6.2N1104.1Table N1105.4.2(1)Table N1108.2.6					
FEMA	Federal Emergency Management Agency			NO	
FEMA TB-2—23 Flood Damage-resistant Materials Requirements R306.1.8					

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FEMA TB-11—23 Crawlspace Construction for Buildings Located in Special Flood Hazard Area R408.7					
GA	Gypsum Association			NO	
GA-253—2021 Application of Gypsum Sheathing Table R602.3(1)					
IAPMO	IAPMO Group			NO	
CSA B45.5—22/IAPMO Z124—2022 Plastic Plumbing Fixtures Table P2701.1P2711.1P2711.2P2712.1					
ICC	International Code Council			NO	
ANSI/APSP/ICC 14—2019 American National Standard for Portable Electric Spa Energy Efficiency N1103.11 ANSI/PHTA/ICC 15—2021 American National Standard for Residential Swimming Pool and Spa Energy Efficiency N1103.12 ANSI/RESNET/ICC 301—2022 Standard for the Calculation and Labeling of the Energy Performance of Low-rise Dwelling and Sleeping Units Using the Energy Rating Index—includes Addendum A Approved July 28, 2022; and Addendum B Approved October 12, 2022 N1105.5.3N1106.4N1106.5N1106.7.1N1106.7.6 ANSI/RESNET/ICC 380—2022 Standard for Testing Airtightness of Building, Dwelling Unit and Sleeping Unit Enclosures; Airtightness of Heating and Cooling Air Distribution Systems and Airflow of Mechanical Ventilation Systems Table N1105.4.2(1)N1102.5.1.2N1103.3.7N1103.3.8N1103.6.3 IBC—24 International Building Code®					

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	R101.2R202R301.1.1R301.1.3R301.2.1.1R301.2.2.1.1R301.2.2.1.2R301.3Table R302.1(1)Table R302.1(2)R302.2.1R302.2.2R302.3R302.15.4R322.1R322.3R324.5R403.1.8Table R602.10.3(3)Table R606.12.2.1R609.2R905.10.3N1101.6N1101.10.1N1101.10.2N1101.11N1102.1.1N1102.2.11.1N1104.1.2N1109.2N1111.1.1.3G2402.3 ICC 400—2022 Standard on the Design and Construction of Log Structures R301.1.1R502.1.4R602.1.4R703.1R802.1.3N1102.1Table N1102.5.1.1 ICC 500—2020 ICC/NSSA Standard for the Design and Construction of Storm Shelters R307.1N1102.6 ICC 600—2020 2020 Standard for Residential Construction in High-Wind Regions R301.2.1.1 ICC 900/SRCC 300—2020 Solar Thermal System Standard M2301.2.2.2M2301.2.3M2301.2.6M2301.2.7M2301.2.8M2301.2.10M2301.4 ICC 901/SRCC 100—2020 Solar Thermal Collector Standard M2301.3.1 ICC 1100—2019 Standard for Spray-applied Polyurethane Foam Plastic Insulation R303.1.1 ICC A117.1—2017 Standard for Accessible and Usable Buildings and Facilities R323.3 IEBC—24 International Existing Building Code® R110.2N1109.2 IECC—06 International Energy Conservation Code® N1101.6 IECC—24 International Energy Conservation Code®				

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Table N1105.4.2(1)N1101.1N1103.8 IFC—24 International Fire Code® R102.6R329.2N1109.2M2201.7G2402.3G2412.2 IFGC—24 International Fuel Gas Code® N1109.2G2401.1G2402.3G2423.1 IMC—24 International Mechanical Code® N1103.3.5N1103.3.6N1103.6N1109.2G2402.3 IPC—24 International Plumbing Code® R903.4.1N1109.2G2402.3P2601.1 IPMC—24 International Property Maintenance Code® R102.6N1109.2 IPSDC—24 International Private Sewage Disposal Code® R306.1.7 ISPSC—24 International Swimming Pool and Spa Code® R328.1					
IEC	IEC Regional Centre for North America			NO	
IEC 62746-10-1—2018 Systems interface between customer energy management system and the power management system - Part 10-1: Open automated demand response N1108.2.8.1					
MSS	Manufacturers Standardization Society of the Valve and Fittings Industry			NO	

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SP-42—2022	Corrosion Resistant Gate, Globe, Angle and Check Valves with Flanged and Butt Weld Ends (Classes 150, 300 & 600)				
Table P2903.10.4					
SP-58—2023	Pipe Hangers and Supports—Materials, Design, Manufacture, Selection, Application, and Installation				
G2418.2					
SP-67—2022	Butterfly Valves				
Table P2903.10.4					
SP-70—2023	Gray Iron Gate Valves, Flanged and Threaded Ends				
Table P2903.10.4					
SP-71—2023	Gray Iron Swing Check Valves, Flanged and Threaded Ends				
Table P2903.10.4					
SP-72—2023	Ball Valves with Flanged or Butt-Welding Ends for General Service				
P2903.10.4					
SP-78—2023	Cast Iron Plug Valves, Flanged and Threaded Ends				
Table P2903.10.4					
SP-80—2019	Bronze Gate, Globe, Angle and Check Valves				
Table P2903.10.4					
SP-110—2023	Ball Valves, Threaded, Socket-Welding, Solder Joint, Grooved and Flared Ends (incl. a 2010 Errata Sheet)				
Table P2903.10.4					
SP-122—2023	Plastic Industrial Ball Valves				
Table P2903.10.4					
SP-139—2022	Copper Alloy Gate, Globe, Angle, and Check Valves for Low Pressure/ Low Temperature Plumbing Applications				

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Table P2903.10.4					
NFPA	National Fire Protection Association			NO	
13D—22 Standard for the Installation of Sprinkler Systems in One- and Two-Family Dwellings and Manufactured Homes R309.1.1R309.2.1R329.6.2.1P2904.1P2904.6.1 13R—22 Standard for the Installation of Sprinkler Systems in Low-Rise Residential Occupancies R314.5 31—20 Standard for the Installation of Oil-Burning Equipment M1701.1M1801.3.1M1805.3M2201.2 58—23 Liquefied Petroleum Gas Code G2412.2G2414.5.2 70—23 National Electrical Code R107.3R329.3R330.6R905.15R905.16R907.1N1104.7.4N1104.7.5N1109.2E3401.1E3401.2E4301.1Table E4303.2E4304.3E4304.4 72—22 National Fire Alarm and Signaling Code R310.1R310.7.1 85—23 Boiler and Combustion Systems Hazards Code G2452.1 211—22 Standard for Chimneys, Fireplaces, Vents, and Solid Fuel-Burning Appliances R1002.5G2427.5.5.1 259—23 Standard for Test Method for Potential Heat of Building Materials R303.5.7R303.5.8 275—22					

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Standard Method of Fire Tests for the Evaluation of Thermal Barriers R303.4 276—23 Standard Method of Fire Test for Determining the Heat Release Rate of Roofing Assemblies with Combustible Above-Deck Roofing Components R906.1 286—23 Standard Methods of Fire Tests for Evaluating Contribution of Wall and Ceiling Interior Finish to Room Fire Growth R302.9.4R303.6 501—22 Standard on Manufactured Housing R202 720—15 Standard for the Installation of Carbon Monoxide (CO) Detection and Warning Equipment R311.7.1R311.7.2 853—20 Standard for the Installation of Stationary Fuel Cell Power Systems M1903.1					
NFRC	National Fenestration Rating Council			NO	
100—2023 Procedure for Determining Fenestration Products <i>U</i> -Factors N1101.10.3 200—2023 Procedure for Determining Fenestration Product Solar Heat Gain Coefficient and Visible Transmittance at Normal Incidence N1101.10.3 400—2023 Procedure for Determining Fenestration Product Air Leakage N1102.5.3					
NSF	NSF International			NO	
14—2020					

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	Plastics Piping System Components and Related Materials M1301.4P2609.3P2909.3 41—2018 Non-liquid Saturated Treatment Systems P2725.1 42—2021 Drinking Water Treatment Units—Aesthetic Effects P2909.1P2909.3 44—2017 Residential Cation Exchange Water Softeners P2909.1P2909.3 53—2020 Drinking Water Treatment Units—Health Effects P2909.1P2909.3 58—2020 Reverse Osmosis Drinking Water Treatment Systems P2909.2P2909.3 61— 2020 Drinking Water System Components—Health Effects P2609.5P2722.1P2903.10.4P2906.4P2906.5P2906.6P2909.3 62—2021 Drinking Water Distillation Systems P2909.1 350—2020 Onsite Residential and Commercial Water Reuse Treatment Systems P2911.6.1 358-1—2021 Polyethylene Pipe and Fittings for Water-Based Ground-Source “Geothermal” Heat Pump Systems Table M2105.4Table M2105.5 358-2—2017 Polypropylene Pipe and Fittings for Water-Based Ground-Source “Geothermal” Heat Pump Systems Table M2105.4Table M2105.5				

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358-3—2021	Cross-linked Polyethylene (PEX) Pipe and Fittings for Water-Based Ground-Source “Geothermal” Heat Pump Systems Table M2105.4 Table M2105.5				
358-4—2018	Polyethylene of Raised Temperature (PE-RT) Tubing and Fittings for Water-Based Ground-Source (Geothermal) Heat Pump Systems Table M2105.4 Table M2105.5				
359—2018	Valves for Crosslinked Polyethylene (PEX) Water Distribution Tubing Systems Table P2903.10.4				
372—2020	Drinking Water Systems Components—Lead Content P2906.2.1				
NSF/ANSI/CAN 50—2020	Equipment and Chemicals for Swimming Pools, Spas, Hot Tubs and Other Recreational Water Facilities P2911.8.1				
Open ADR	OpenADR Alliance			NO	
OpenADR 2.0a and 2.0b—2019	Profile Specification Distributed Energy Resources N1108.2.8.1				
PHTA	Pool and Hot Tub Alliance			NO	
ANSI/ PHTA/ICC 15— 2021	American National Standard for Residential Swimming Pool and Spa Energy Efficiency N1103.12				
ANSI/APSP/ICC 14—2019	American National Standard for Portable Electric Spa Energy Efficiency N1103.11				
PTI	Post-Tensioning Institute			NO	
PTIDC10.5—19	Standard Requirements for Design and Analysis of Shallow Concrete Foundations on Expansive and Stable Soils				

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R506.2					
RESNET	Residential Energy Services Network Inc			NO	
ANSI/RESNET/ICC 301—2022 Standard for the Calculation and Labeling of the Energy Performance of Dwelling and Sleeping Units using an Energy Rating Index--includes Addendum A Approved July 28, 2022; and Addendum B Approved October 12, 2022 N1105.5.3N1106.4N1106.5N1106.7.1N1106.7.6 ANSI/RESNET/ICC 380—2022 Standard for Testing Airtightness of Building, Dwelling Unit, and Sleeping Unit Enclosures; Airtightness of Heating and Cooling Air Distribution Systems; and Airflow of Mechanical Ventilation Systems Table N1105.4.2(1)N1102.5.1.2N1103.3.7N1103.3.8N1103.6.3					
SMACNA	Sheet Metal and Air Conditioning Contractors National Association Inc			NO	
ANSI/SMACNA 4th Edition—2020 HVAC Duct Construction Standards—Metal and Flexible, (ANSI/SMACNA 006—2020) M1601.4.1 SMACNA—2021 Fibrous Glass Duct Construction Standards, 8th edition M1601.1.1M1601.4.1					
TMS	The Masonry Society			NO	
402—2022 Building Code Requirements for Masonry Structures R404.1.2R606.1.1R606.12.1R606.12.2.3.1R606.12.3.1R703.12 403—2017 Direct Design Handbook for Masonry Structures R606.1R606.1.1R606.12.1R606.12.3.1 404—2023 Standard for the Design of Architectural Cast Stone					

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R606.1 602—2022 Specification for Masonry Structures R606.2.10R606.2.13R703.12					
TPI	Truss Plate Institute			NO	
ANSI/TPI 1—2022 National Design Standard for Metal Plate Connected Wood Truss Construction R502.12.1R802.10.2					
UL	UL LLC			NO	
17—2008 Vent or Chimney Connector Dampers for Oil-Fired Appliances—with Revisions through September 2013 M1802.2.2 55A—2004 Materials for Built-Up Roof Coverings R905.9.2 58—2018 Steel Underground Tanks for Flammable and Combustible Liquids M2201.1 80—2007 Steel Tanks for Oil-Burner Fuel—with Revisions through April 2019 M2201.1 103—2010 Factory-built Chimneys for Residential Type and Building Heating Appliances—with Revisions through September 2021 R202R1005.3G2430.1 127—2011 Factory-Built Fireplaces—with Revisions through February 2020 R1001.11R1004.1R1004.4R1004.5R1005.4N1102.5.2G2445.7 174—2004 Household Electric Storage Tank Water Heaters—with Revisions through October 2021 M2005.1					

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180—2019	Liquid-Level Indicating Gauges for Oil Burner Fuels and Other Combustible Liquids—with Revisions through August 2021				
M2201.5					
181—2013	Factory-Made Air Ducts and Air Connectors				
M1601.1.1M1601.4.1					
181A—2013	Closure Systems for Use with Rigid Air Ducts and Air Connectors—with Revisions through March 2017				
M1601.2M1601.4.1					
181B—2013	Closure Systems for Use with Flexible Air Ducts and Air Connectors—with Revisions through March 2017				
M1601.4.1					
217—2015	Smoke Alarms—with Revisions through April 2021				
R310.1.1R311.1.1					
263—2011	Fire Test of Building Construction and Materials—with Revisions through August 2021				
Table R302.1(2)R302.2R302.2.1R302.2.2R302.4.1R302.11.1R606.2.2					
268—2016	Smoke Detectors for Fire Alarm Systems—with Revisions through October 2019				
R310.7.1R310.7.4R311.7.4					
325—2017	Door, Drapery, Gate, Louver and Window Operators and Systems—with Revisions through February 2020				
R317.4					
343—2008	Pumps for Oil-Burning Appliances—with Revisions through December 2017				
M2204.1					
378—2006	Draft Equipment—with Revisions through September 2013				
M1804.2.6G2427.3.3					
441—2016	Gas Vents—with Revisions through August 2019				

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G2426.1 G2427.6.1	467—2013 Grounding and Bonding Equipment				
G2411.2.5					
484 —2014					
	Standard for Room Air Conditioners—with Revisions through May 2019				
M1404.1					
507—2017	Electric Fans—with Revisions through May 2020				
M1503.2					
508—2018	Industrial Control Equipment—with Revisions through July 2021				
M1411.9.1					
515—2015	Electrical Resistance Heat Tracing for Commercial Applications				
N1103.5.1.2					
536—2021					
	Flexible Metallic Hose				
M2202.3					
580—2006	Test for Uplift Resistance of Roof Assemblies—with Revisions through March 2019				
R905.4.4.1 R905.9.4 R905.10.5 R905.11.4 R905.12.4 R905.13.4 R905.14.4					
641—2010	Type L Low-Temperature Venting Systems—with Revisions through April 2018				
R202 R1003.11.5 M1804.2.4 G2426.1 G2427.6.1					
651—2011	Schedule 40 and Schedule 80 , Rigid PVC Conduit and Fittings—with Revisions through March 2020				
G2414.5.3					
705—2017	Power Ventilators—with Revisions through August 2021				
M1502.4.4					
723—2018					

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	Standard for Test for Surface Burning Characteristics of Building Materials R202R302.9.3R302.9.4R302.10.1R302.10.2R302.15R303.3R303.5.9R303.5.11R507.2.2.2R703.14.3M1601.3M1601.5.2P2801.5 726—1995 Oil-Fired Boiler Assemblies—with Revisions through October 2013 M2001.1.1M2006.1 727—2018 Oil-Fired Central Furnaces M1402.1 729—2003 Oil-Fired Floor Furnaces—with Revisions through November 2016 M1408.1 730—2003 Oil-Fired Wall Furnaces—with revisions through November 2016 M1409.1 732—2018 Oil-Fired Storage Tank Water Heaters—with Revisions through August 2018 M2005.1 737—2011 Fireplaces Stoves M1414.1M1901.2 790—2004 Standard Test Methods for Fire Tests of Roof Coverings—with Revisions through October 2018 R302.2.4R902.1 795—2016 Commercial-Industrial Gas Heating Equipment—with Revisions through 2020 G2442.1G2452.1 834—2004 Heating, Water Supply, and Power Boilers—Electric—with Revisions through July 2019 M2001.1.1 842—2019 Valves for Flammable Fluids M2204.2				

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858—2014	Household Electric Ranges—with Revisions through September 2019 M1503.2M1901.2				
875—2009	Electric Dry-bath Heaters—with Revisions through January 2021 M1902.2				
896—1993	Oil-Burning Stoves—with Revisions through November 2016 M1410.1				
907—2016	Fireplace Accessories R1001.13				
923—2013	Microwave Cooking Appliances—with Revisions through August 2020 M1503.2M1504.1M1901.2				
959—2010	Medium Heat Appliance Factory-Built Chimneys—with Revisions through August 2019 R1005.6				
1026—2012	Household Electric Cooking and Food Serving Appliances—with Revisions through March 2021 M1901.2				
1040—1996	Fire Test of Insulated Wall Construction—with Revisions through April 2017 R303.6				
1042—2009	Electric Baseboard Heating Equipment—with Revisions through February 2021 M1405.1				
1256—2002	Fire Test of Roof Deck Construction—with Revisions through August 2018 R906.1				
1261—2001					
	Electric Water Heaters for Pools and Tubs—with Revisions through September 2017				

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M2006.1 1479—2015 Fire Tests of Penetration Firestops—with Revisions through May 2021 R302.4.1.2 1482—2011 Solid-Fuel Type Room Heaters—with Revisions through February 2020 R1002.2R1002.5M1410.1 1563—2009 Electric Spas, Equipment Assemblies, and Associated Equipment—with Revisions through September 2020 M2006.1 1618—2015 Wall Protectors, Floor Protectors, and Hearth Extensions—with Revisions through January 2018 R1004.2M1410.2 1693—2010 Electric Radiant Heating Panels and Heating Panel Sets—with Revisions through October 2011 M1406.1 1703—2002 Flat-Plate Photovoltaic Modules and Panels—with Revisions through November 2019 R329.3.1R902.4 1715—1997 Fire Test of Interior Finish Material—with revisions through April 2017 R303.6 1738—2010 Venting Systems for Gas-Burning Appliances, Categories II, III and IV—with Revisions through August 2021 G2426.1G2427.4.1G2427.4.1.1G2427.4.2 1741—2010 Inverters, Converters, Controllers and Interconnection System Equipment with Distributed Energy Resources—with Revisions through June 2021 R329.3.1R330.6 1777—2015 Chimney Liners—with Revisions through April 2019 R1003.11.1R1003.18M1801.3.4G2425.12G2425.15.4G2427.5.1G2427.5.2 1897—2015					

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	Uplift Tests for Roof Covering Systems—with Revisions through September 2020 R905.4.4.1R905.9.4R905.10.5R905.11.4R905.12.4R905.13.4R905.14.4 1995—2015 Heating and Cooling Equipment—with Revisions through August 2018 M1402.1M1403.1M1407.1M1412.1M1413.1M2006.1 1996—2009 Electric Duct Heaters—with Revisions through September 2021 M1402.1M1407.1 2034—2017 Single and Multiple Station Carbon Monoxide Alarms—with Revisions through September 2018 R310.1.1R311.1.1 2075—2013 Gas and Vapor Detectors and Sensors—with Revisions through August 2021 R310.7.4R311.7.1R311.7.4 2158A—2013 Clothes Dryer Transition Duct—with Revisions through October 2021 M1502.4.3G2439.7.3 2200—2020 Stationary Engine Generator Assemblies R331.1 2523—2009: Solid Fuel-Fired Hydronic Heating Appliances, Water Heaters and Boilers—with Revisions through March 2018 M2001.1.1M2005.1 2703—2014 Mounting Systems, Mounting Devices, Clamping/Retention Devices and Ground Lugs for Use with Flat-Plate Photovoltaic Modules and Panels—with Revisions through March 2021 R902.4 3741—2020 Photovoltaic Hazard Control R329.6R329.6.3R329.6.4 7103—2019 Outline of Investigation for Building-Integrated Photovoltaic Roof Coverings				

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R902.3R905.15.4Table R905.15.6R905.16.5R905.16.7 9540—2020 Standard for Energy Storage Systems and Equipment—with Revisions through April 2021 R330.2R330.6 61730-1—2017 Photovoltaic (PV) Module Safety Qualification — Part 1: Requirements for Construction—with Revisions through April 2020 R329.3.1 61730-2—2017 Photovoltaic (PV) Module Safety Qualification—Part 2: Requirements for Testing—with Revisions through April 2020 R329.3.1R905.15.4R905.16.5 UL 2202—2009 Electric Vehicle (EV) Charging System—with revisions through February 2018 R317.6 UL 2594—2016 Standard for Electric Vehicle Supply Equipment R317.6 UL/CSA 60335-2-40—2022 Household and Similar Electrical Appliances—Safety—Part 2-40: Particular Requirements for Electrical Heat Pumps, Air-Conditioners and Dehumidifiers M1402.1M1403.1M1412.1M1413.1M2006.1					
WDMA	Window and Door Manufacturers Association			NO	
AAMA/WDMA/CSA 101/I.S.2/A440—22 North American Fenestration Standard/Specification for Windows, Doors, and Skylights R324.6.9R609.3N1102.5.3 I.S. 11—23 Industry Standard Analytical Method for Design Pressure (DP) Ratings of Fenestration Products R324.6.9.1R609.3.1					
WMA	World Millwork Alliance			NO	
ANSI WMA 100—2023 Standard Method of Determining Structural Performance Ratings of Side-Hinged Exterior Door Systems and Procedures for Component Substitution					

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
R609.3					
APPENDIX AA BOARD OF APPEALS					
This Appendix Not Adopted No Significant Changes					
APPENDIX AB PERMIT FEES					
This Appendix Not Adopted No Significant Changes					
APPENDIX AC RESERVED					
Appendix Reserved					
APPENDIX BA MANUFACTURED HOUSING USED AS DWELLINGS					
This Appendix Not Adopted No Significant Changes					
APPENDIX BB TINY HOUSES					
Entire Appendix Moved from AQ to BB. No technical language changes. See also, Existing Amendments Report TAG Proposal 24-GP2-050					
APPENDIX BC ACCESSORY DWELLING UNITS					
New appendix This Appendix Not Adopted					
BC 101.1	General		No	NO	
BC101.1 Scope. Accessory dwelling units (ADUs) proposed for existing residential construction shall be in accordance with this appendix and other applicable requirements in this code, and the existing building together with the ADUs shall not exceed the scoping limitations of Section R101.2 .					
BC101.1.1	General		No	NO	
BC101.1.1 Prohibited conditions. An ADU shall not be permitted within: 1. <i>Live/work units</i> located in <i>townhouses</i>. 2. <i>Owner-occupied lodging houses</i> with five or fewer <i>guestrooms</i>. 3. A care facility with five or fewer persons receiving custodial care within a <i>dwelling unit</i>. 4. A care facility with five or fewer persons receiving medical care within a <i>dwelling unit</i>. 5. A day care facility with five or fewer persons of any age receiving care within a <i>dwelling unit</i>.					
BC101.2	General		No	NO	

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
BC101.2 Conditions. ADUs shall be permitted without requiring a <i>change of occupancy</i> where in compliance with all of the following: 1.An ADU shall be permitted within an existing single-family detached <i>dwelling</i> or within an existing <i>townhouse unit</i> that is within the scope of the <i>International Residential Code</i>. 2.Only one ADU shall be permitted for each primary <i>dwelling unit</i>. 3.The owner of a property containing an ADU shall reside in either the primary <i>dwelling unit</i> or the ADU, as of the date of <i>permit</i> approval. 4.An ADU shall have a separate house number from the primary <i>dwelling unit</i>. 5.ADUs shall be secondary in size and function to the primary <i>dwelling unit</i> and shall comply with all of the following limits: 5.1.Not less than 190 square feet (17.65 m²) in area. 5.2.Not more than 50 percent of the area of the primary <i>dwelling unit</i>. 5.3.Not more than 1,200 square feet (111 m²) in area. 6.An ADU shall be provided with a separate entrance from that serving the primary <i>dwelling unit</i>, either from the exterior of the <i>building</i> or from a common hallway located within the <i>building</i>. 7.An ADU shall have a maximum number of two bedrooms. 8.The location of a detached ADU shall comply with Section R302. 9.An ADU shall be provided with adequate provisions for electricity, water supply and sewage disposal.					
BC102.1	Definitions		No	NO	
BC102.1 Definitions. The following words and terms shall, for the purposes of this appendix, have the meanings shown herein: ACCESSORY DWELLING UNIT (ADU). An <i>addition or alteration</i> that is an additional, subordinate dwelling unit on the same <i>lot</i> , and is entirely within a dwelling unit, attached to a <i>dwelling unit</i> or in a detached structure.					
BC103.1	Permits		No	NO	
BC103.1 Required. Any owner or owner's agent who intends to construct an ADU within an existing or proposed building or structure shall first make application to the <i>building official</i> and obtain the required <i>permit</i> .					
BC104.1	ADU Planning		No	NO	
BC104.1 Design. Except as modified by this section, building planning shall be in accordance with Chapter 3 and building structure shall comply with the <i>International Residential Code</i> .					
BC104.2	ADU Planning		No	NO	

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
BC104.2 Means of egress. The path of egress travel from an <u>ADU</u> to a <i>public way</i> or to a <i>yard or court</i> that opens to a <i>public way</i> shall be independent of, and not pass through, the <i>primary dwelling unit</i> .					
BC104.3	ADU Planning		No	NO	
BC104.3 Fire separation. For <u>ADUs</u> adjoining the <i>primary dwelling unit</i> , the 1-hour fire-resistance-rated wall and floor assembly provisions of <u>Section R302.3</u> shall not be required, provided that both of the following conditions have been met: 1.The interconnection of smoke alarms per <u>Section R310.4</u> activates the smoke alarms in both the <i>primary dwelling unit</i> and the <u>ADU</u>. 2.The interconnection of <i>carbon monoxide alarms</i> per <u>Section R311.5</u> activates the <i>carbon monoxide alarms</i> in both the <i>primary dwelling unit</i> and the <u>ADU</u>.					
BC104.4	ADU Planning		No	NO	
BC104.4 Smoke and carbon monoxide alarms. For <u>ADUs</u> adjoining the <i>primary dwelling unit</i> , the interconnectivity of smoke alarms and <i>carbon monoxide alarms</i> may be independent for the <i>primary dwelling unit</i> and the <u>ADU</u> , provided that a 1-hour fire-resistance rating is provided for walls and floor assemblies in accordance with <u>Section R302.3</u> .					
BC105.1	Utilities		No	NO	
BC105.1 Heating, ventilation and air-conditioning systems. A <i>primary dwelling unit</i> and an <u>ADU</u> shall be provided with: 1.A separate heating system. 2.Separate ducting for heating and cooling systems. Return air openings for heating, <i>ventilation</i> and air-conditioning shall not be taken from another <i>dwelling unit</i>. 3.Separate climate controls.					
BC105.2	Utilities		No	NO	
BC105.2 Electrical systems. A <i>primary dwelling unit</i> and an <u>ADU</u> shall be provided with: 1.<i>Ready access</i> to the service disconnecting means serving the <i>dwelling unit</i>. 2.<i>Ready access</i> for each occupant to all overcurrent devices protecting the conductors supplying the <i>dwelling unit</i> in which they reside.					
BC105.3	Utilities		No	NO	
BC105.3 Gas piping. A <i>primary dwelling unit</i> and an <u>ADU</u> shall be provided with:					

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
1. 1.Ready access for each occupant to shutoff valves serving the dwelling unit in which they reside. 2. 2.Ready access for each occupant to appliance shutoff valves serving appliances in the dwelling unit in which they reside.					
BC105.4	Utilities		No	NO	
BC105.4 Water service. A primary dwelling unit and an ADU may share a common potable water system, provided that there are separate, accessible main shutoff valves allowing the water to be turned off on one side without affecting the other.					
APPENDIX BD HOME DAY CARE OCCUPANCY					
This Appendix Not Adopted No Significant Changes					
APPENDIX BE RADON CONTROL METHODS					
BE 103.2	Requirements	Well drained soils do not require a sand layer	Decrease, See RB295-22	NO	
BE103.2 Subfloor preparation. A layer of gas-permeable material shall be placed under all concrete slabs and other floor systems that directly contact the ground and are within the walls of the <i>living spaces</i> of the <i>building</i> , to facilitate future installation of a <i>subslab depressurization system</i> , if needed. The gas-permeable layer shall consist of one of the following: 1.A uniform layer of clean aggregate, not less than 4 inches (102 mm) thick. The aggregate shall consist of material that will pass through a 2-inch (51 mm) sieve and be retained by a 1/4-inch (6.4 mm) sieve. 2.A uniform layer of sand (native or fill), not less than 4 inches (102 mm) thick, overlain by a layer or strips of geotextile drainage matting designed to allow the lateral flow of soil gases. Exception: A sand base course is not required under geotextile drainage matting where the concrete slab is installed on well-drained ground or sand-gravel mixture soils classified as Group 1 according to the United Soil Classification as detailed in Table R401.4.1(2). 3.Other materials, systems or floor designs with demonstrated capability to permit depressurization across the entire subfloor area.					
BE103.3	Requirements	Correlates requirement with main body of the code	No	NO	

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
BE103.3 Soil-gas-retarder. Flexible sheeting material complying with Section R506.3.3 shall be placed on top of the gas-permeable layer prior to casting the slab or placing the floor assembly to serve as a <i>soil-gas-retarder</i> by bridging any cracks that develop in the slab or floor assembly, and to prevent concrete from entering the void spaces in the aggregate base material. The sheeting shall cover the entire floor area with separate sections of sheeting lapped not less than 12 inches (305 mm). The sheeting shall fit closely around any pipe, wire or other penetrations of the material. Punctures or tears in the material shall be sealed or covered with additional sheeting.					
APPENDIX BF PATIO COVERS					
This Appendix Not Adopted No Significant Changes					
APPENDIX BG SOUND TRANSMISSION					
This Appendix Not Adopted No Significant Changes					
APPENDIX BH AUTOMATIC VEHICULAR GATES					
This Appendix Not Adopted No Significant Changes					
APPENDIX BI LIGHT STRAW-CLAY CONSTRUCTION					
This Appendix Not Adopted No Significant Changes					
APPENDIX BJ STRAWBALE CONSTRUCTION					
This Appendix Not Adopted No Significant Changes					
APPENDIX BK COB CONSTRUCTION (MONOLITHIC ADOBE)					
This Appendix Not Adopted					

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
BK 102	Definitions	This is the proper term associated with the predominant method of installing windows and doors in cob walls.	No	NO	
BUCK. A frame, typically wood, anchored in a wall system, that creates the rough opening into which a window or door frame is installed.					
BK105.4.5	Cob Walls - General	Provides historically successful options for anchoring and embedding window and door bucks, and installing windows without bucks.	No	NO	
BK105.4.5 Installation of windows and doors. Windows and doors shall be installed in accordance with the manufacturer's instructions to a wooden <i>buck</i> of not less than nominal 2-inch by 4-inch (51 mm by 102 mm) wood members. The installation of windows and doors and their bucks shall prevent the passage of air and water into or through the wall system. Windowsills shall comply with Section BK105.4.2. Window and door bucks shall be installed in accordance with Figure BK105.4.5 and one of the following methods: 1.Side members of the <i>bucks</i> shall be anchored into the <i>cob</i> wall by embedding the protruding end of half-driven 16d galvanized nails at a maximum 6-inch (152 mm) spacing. The <i>buck</i> shall be embedded into the <i>cob</i> not less than 1½ inches (38 mm) and set in from each face of the wall not less than 3 inches (76 mm). 2.Wood stiffeners not less than nominal 2-inch by 4-inch (51 mm by 102 mm) shall be attached <i>on-edge</i> to the sides of the <i>buck</i> and embedded in the <i>cob</i> wall a minimum of 3½ inches (89 mm). Stiffeners shall anchor into the <i>cob</i> wall with the protruding end of half-driven 16d galvanized nails at a maximum 6-inch (152 mm) spacing. Stiffeners shall be set back not less than 3 inches (76 mm) from each wall face. <i>Bucks</i> are permitted to be exposed and do not require anchoring nails where stiffeners are used with this method. 3.Other <i>approved</i> methods satisfying the performance requirements of Section BK105.4.5. Exception: Windows and unframed glass shall be permitted to be embedded directly into a <i>cob</i> wall with an <i>approved</i> design.					
BK106.6.1	Cob Walls Structural	Adjusted required compression test size as a	No	NO	

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
		result of University of California, Berkeley and University of San Francisco testing.			
BK106.6.1 Demonstration of compressive strength. The compressive strength of the <i>cob</i> mix to be used in structural walls and <i>nonstructural walls</i> as required in Section BK106.6 shall be demonstrated to the <i>building official</i> before the placement of <i>cob</i> onto walls, with compressive strength tests and an associated report by an <i>approved</i> laboratory or with an <i>approved</i> on-site test as follows: 1. Five samples of the proposed <i>cob</i> mix shall be placed moist to completely fill a 4-inch by 4-inch by 8-inch (102 mm by 102 mm by 203 mm) form and dried to ambient moisture conditions. 2. Samples shall not be oven dried. 3. The 4-inch by 4-inch (102 mm by 102 mm) faces shall be capped with <i>plaster</i> of paris to achieve smooth, parallel faces, after which the sample shall reach ambient moisture conditions before testing. 4. Samples shall be constructed, dried and tested with the long dimension vertical. 5. The horizontal cross section of the dried sample as tested, and the maximum applied load at failure shall be used to calculate the sample's compressive strength. 6. The fourth-lowest value shall be used to determine the mix's compressive strength.					
BK106.8	Cob Walls Structural	Limitations of allowable bearing loads of cob walls	Increase See RB308-22	NO	

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
		based on buckling considerations.			
BK106.8 Bearing capacity. The allowable bearing capacity for <i>cob load-bearing walls</i> supporting vertical roof and/or ceiling loads imposed in accordance with Section R301 shall not exceed 2,200 pounds per linear foot (plf) and shall be determined by Equation BK-2. Use of bearing capacities determined with Equation BK-2 exceeding 2,200 plf requires an <i>approved</i> design prepared by a <i>registered design professional</i> that accounts for buckling. $BC = (C \times T_{min} \times 12)/3 - (H \times T_{avg}/12 \times D)$ (Equation BK-2) BC = Allowable bearing capacity of wall (in pounds per lineal foot of wall). C = Compressive strength (in psi) as determined in accordance with Section BK106.6. T_{min} = Thickness of wall (in inches) at its minimum. H = Height of <i>cob</i> portion of wall (in feet). T_{avg} = Average thickness of wall (in inches). D = Density of <i>cob</i> = 110 (in pounds per cubic foot), unless a lesser value at equilibrium moisture content is demonstrated.					
BK109.2	Thermal Performance	Adds a unit R-value for cob laboratory tested at a density of 75 pcf.	No	NO	
BK109.2 Thermal resistance. The unit <i>R</i>-value for <i>cob</i> walls with a density of 110 pounds per cubic foot (1762 kg/m³) shall be R-0.22 (RSI 0.0387) per inch of <i>cob</i> thickness. The unit <i>R</i>-value for cob walls with a density of 75 pounds per cubic foot (1201 kg/m³) shall be R-0.54 (RSI 0.095) per inch of cob thickness. Linear interpolation is permitted. Extrapolation is not permitted. Walls that vary in thickness along their height or length shall use the average thickness of the wall to determine its <i>R</i>-value. The thermal resistance values of air films and <i>finish</i> materials or additional insulation shall be added to the <i>cob</i> wall's thermal resistance value to determine the <i>R</i>-value of the wall assembly. Cob density shall be measured at equilibrium moisture content.					
APPENDIX BL HEMP-LIME (HEMPCRETE) CONSTRUCTION					
New Appendix This Appendix Not Adopted					
BL101.1	General		No	NO	
BL101.1 Scope.					

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
This appendix shall govern the use of <i>hemp-lime</i> as a nonstructural building material and wall infill system. <i>Townhouses in Seismic Design Categories C, D0, D1 and D2</i> and one- and two-family dwellings in <i>Seismic Design Categories D0, D1 and D2</i> shall require an <i>approved</i> engineered design by a <i>registered design professional</i> in accordance with Section R301.1.3 .					
BL102.1	Definitions		No	NO	
BL102.1 General. The following words and terms shall, for the purposes of this appendix, have the meanings shown herein. Refer to Chapter 2 for general definitions. BINDER. The material that binds the <i>hemp hurd</i> in a <i>hemp-lime</i> mix. BONDING COAT. The initial thin layer of binder-rich granulated <i>plaster</i> used in <i>lined applications of hemp-lime</i> construction to ensure adhesive and/or mechanical bonding. Also known as “gobetis.” CASTING. Placing wet <i>hemp-lime</i> into forms. CAST-IN-PLACE. Installation of <i>hemp-lime</i> mix by hand or by spraying into forms in its permanent location. CLAY. Inorganic soil with particle sizes less than 0.00008 inch (0.002 mm) and having the characteristics of high dry strength and medium to high plasticity, used as a <i>binder</i> of other component materials in <i>clay plaster</i>. CLAY SUBSOIL. Subsoil sourced directly from the earth, containing <i>clay</i>, sand and silt, and containing not more than trace amounts of organic matter. FIBER CLUMPS. Long fibers that are attached to hemp hurd, or for other reasons, cause clumping of fibrous balls when agitated. FINISH. Exposed surface material on the interior or exterior face of a <i>hemp-lime</i> infill wall. FORM. The material into which <i>hemp-lime</i> infill, panels or blocks are cast. FORMWORK. The system of forms, their bracing and fasteners assembled for casting of <i>hemp-lime</i> infill. HAND-CAST. <i>Hemp-lime</i> infill cast by placing <i>hemp-lime</i> mix into formwork and evenly tamping by hand or with a tool. HEMP. A class of the <i>Cannabis sativa</i> plant grown for industrial purposes in which the concentration of total delta-9 tetrahy-drocannabinol (THC) in the flowering tops is equal to or less than the regulated maximum level established by authorities having jurisdiction. HEMP HURD. The chopped woody core of the stalks of the hemp plant, stripped of its surrounding <i>hemp</i> fibers. Also known as “<i>hemp shiv</i>” or “<i>hemp shive</i>.” HEMPCRETE. Common usage term for <i>hemp-lime</i>. HEMP-LIME. A bio-aggregate composite consisting of <i>hemp hurd</i> and a lime-based <i>binder</i>. Also known as “<i>hempcrete</i>.” INFILL. <i>Hemp-lime</i> placed between or around the structural or nonstructural framing of a building as insulation, thermal mass and a substrate for finish. LIFT. A horizontal layer of <i>hemp-lime</i> infill. LIME. Lime is composed of calcium hydroxide [Ca(OH)²] including Type N or S hydrated lime, hydraulic lime, natural hydraulic lime or slaked quicklime. LINED APPLICATION. Installation of a vertical <i>hemp-lime</i> layer, lining a masonry or concrete wall. NATURAL CEMENT. Hydraulic cement made from naturally occurring limestone. NONBEARING. Not bearing the weight of the building other than the weight of the <i>hemp-lime</i> infill and its finish.					

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
PLASTER. Lime, clay, clay-lime or <i>hemp-lime plaster</i> as described in Section BL104.3, applied to the interior or exterior face of <i>hemp-lime</i> walls. POZZOLAN. A siliceous or alumino-siliceous material that, when finely divided and combined with hydrated lime in the presence of water, forms new chemical compounds with cementitious properties. PRECAST. Blocks or panels of <i>hemp-lime</i> formed and cured before installation. REED MAT. A mat consisting of reed, cane, bamboo or other similar plant material. SCREEDING. Removal of excess material to form a planar surface. SPRAY-APPLIED. A method of mechanical projection of <i>hemp-lime</i> applied onto or into a form using compressed air. TADELAKT. A lime-plaster which is compressed, polished and treated with oil-based soap to make it water-repellent. UNIT WALL WEIGHT. The <i>unit wall weight</i> is the calculated weight of a 1-foot by 1-foot (305 mm × 305 mm) section of wall surface area times the full wall thickness, including finishes. The <i>unit wall weight</i> is the sum of the weight of each constituent material times its volume, expressed as pounds per square foot (psf). VOID. Any space in a <i>hemp-lime</i> wall greater than 1/4 inch (6 mm) wide, 2 inches (51 mm) long and 2 inches (51 mm) deep.					
BL103.1	Hemp-Lime Construction		No	NO	
BL103.1 General. <i>Hemp-lime</i> construction shall be limited to the nonstructural, solid infill mix of <i>hemp hurd</i> and its <i>binder</i> between or around structural and nonstructural wall framing. <i>Hemp-lime</i> infill shall have a density ranging from 12.5 lb/ft³ to 25 lb/ft³ (200 kg/m³ to 400 kg/m³). <i>Hemp-lime</i> walls shall be designed and constructed in accordance with Section BL103 and with Figures BL103.1(1) through BL103.1(4) or an <i>approved</i> alternative design.					
F BL103.1(1)	Hemp-Lime Construction		No	NO	

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
ROOF/CEILING ASSEMBLY PER CHAPTERS 8 AND 9 TOP PLATE PLASTER OR OTHER FINISH PER SECTION BL104 WALL FRAMING PER SECTION R602 OR R603 AND SECTION BL103.3.5 HEMP-LIME INFILL PER SECTIONS BL103.2 AND SECTION BL103.6 ANCHORAGE PER SECTION BL103.3.9 SILL PLATE MOISTURE BARRIER PER SECTION BL103.7.8 FLOOR PER CHAPTER 5 FOUNDATION PER CHAPTER 4 GRADE OR PAVEMENT SEPARATION OF HEMP-LIME AND EARTH PER SECTIONS BL103.7.6 AND BL103.7.7 FLASHING PER SECTION BL103.7.9 BOTTOM OF LET-IN BRACING, WHERE OCCURS, PER SECTION R602.10.3(1) NONPLASTER EXTERIOR CLADDING PER SECTION BL104.6 OR PLASTER FINISH PER SECTION BL104.3 TOP OF LET-IN BRACING, WHERE OCCURS, PER SECTION R602.10.3(1) FIGURE BL103.1(1) TYPICAL HEMP-LIME WITH INTERIOR STUD FRAMING					
F BL103.1(2)	Hemp-Lime Construction		No	NO	

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
	Diagram illustrating the typical hemp-lime construction with center stud framing, showing the following components and their corresponding code references: - ROOF/CEILING ASSEMBLY PER CHAPTERS 8 AND 9 - TOP PLATE - TOP OF LET-IN BRACING, WHERE OCCURS, PER SECTION R602.10.3(1) - HEMP-LIME INFILL PER SECTIONS BL103.2 AND BL103.6 - NONPLASTER EXTERIOR CLADDING PER SECTION BL104.6 OR PLASTER FINISH PER SECTION BL104.3 - PLASTER OR OTHER FINISH PER SECTION BL104 - WALL FRAMING PER SECTION R602 OR R603 AND SECTION BL103.3.5 - BOTTOM OF LET-IN BRACING, WHERE OCCURS, PER SECTION R602.10.3(1) - FLASHING PER SECTION BL103.7.9 - SILL PLATE - MOISTURE BARRIER PER SECTION BL103.7.8 - SEPARATION OF HEMP-LIME AND EARTH PER SECTIONS BL103.7.6 AND BL103.7.7 - FLOOR PER CHAPTER 5 - GRADE OR PAVEMENT - FOUNDATION PER CHAPTER 4 FIGURE BL103.1(2) TYPICAL HEMP-LIME WITH CENTER STUD FRAMING				
F BL103.1(3)	Hemp-Lime Construction		No	NO	

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
ROOF/CEILING ASSEMBLY PER CHAPTERS 8 AND 9 TOP OF LET-IN BRACING, WHERE OCCURS, PER SECTION R602.10.3(1) TOP PLATE PLASTER OR OTHER FINISH PER SECTION BL104 WALL FRAMING PER SECTION R602 OR R603 AND SECTION BL103.3.5 HEMP-LIME INFILL PER SECTIONS BL103.2 AND BL103.6 ANCHORAGE PER SECTION BL103.3.9 SILL PLATE MOISTURE BARRIER PER SECTION BL103.7.8 FLOOR PER CHAPTER 5 FOUNDATION PER CHAPTER 4 GRADE OR PAVEMENT SEPARATION OF HEMP-LIME AND EARTH PER SECTIONS BL103.7.6 AND BL103.7.7 FLASHING PER SECTION BL103.7.9 BOTTOM OF LET-IN BRACING, WHERE OCCURS, PER SECTION R602.10.3(1) NONPLASTER EXTERIOR CLADDING PER SECTION BL104.6 OR PLASTER FINISH PER SECTION BL104.3 FIGURE BL103.1(3) TYPICAL HEMP-LIME WITH EXTERIOR STUD FRAMING					
F BL103.1(4)	Hemp-Lime Construction		No	NO	

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
FIGURE BL103.1(4) TYPICAL HEMP-LIME WITH DOUBLE STUD WALL FRAMING					
BL103.2	Hemp-Lime Construction		No	NO	
BL103.2 Materials. Materials to be used in <i>hemp-lime</i> construction shall be in accordance with Sections BL103.2 through BL103.2.3.					

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
BL103.2.1	Hemp-Lime Construction		No	NO	
BL103.2.1 Hemp hurd. <i>Hemp hurd</i> shall match the specifications of the <i>approved</i> test samples in Sections BL106.3 and BL107.1 . <i>Hemp hurd</i> shall be substantially free from dust and <i>fiber clumps</i> such that the installed <i>hemp-lime</i> maintains its integrity.					
BL103.2.2	Hemp-Lime Construction		No	NO	
BL103.2.2 Binders. Acceptable binders, singular or in combination, include hydraulic lime, hydrated lime, <i>pozzolans</i> , <i>natural cements</i> or other binders that match the specification of the <i>approved</i> test samples in Sections BL106.3 and BL107.1 .					
BL103.2.3	Hemp-Lime Construction		No	NO	
BL103.2.3 Water and water additives. Water and any water additives shall match the specifications of the <i>approved</i> test samples in Sections BL106.3 and BL107.1 .					
BL103.3	Hemp-Lime Construction		No	NO	
BL103.3 Structure. The structure of buildings using <i>hemp-lime</i> infill shall be in accordance with this code and Sections BL103.3.1 through BL103.3.9 or with an <i>approved</i> engineered design by a <i>registered design professional</i> .					
BL103.3.1	Hemp-Lime Construction		No	NO	
BL103.3.1 Limitations and requirements for buildings using <i>hemp-lime</i> infill. Buildings using <i>hemp-lime</i> infill shall be subject to the following limitations and requirements: 1.Number of <i>stories</i>: not more than one <i>story above grade plane</i>. 2.The <i>building height</i> shall not be more than 25 feet (7620 mm). 3.Braced wall panel lengths: in accordance with Sections R602.10.3 and BL103.3.2. 4.<i>Unit wall weight</i>: <i>Hemp-lime</i> walls shall not exceed an average <i>unit wall weight</i> of 65 psf (317 kg/m²).					
BL103.3.2	Hemp-Lime Construction		No	NO	
BL103.3.2 Bracing. Bracing for buildings with <i>hemp-lime</i> infill in <i>Seismic Design Categories</i> A, B and C shall be in accordance with Section R602.10 and in accordance with the following. Walls with <i>hemp-lime</i> infill shall use Method LIB and shall not be braced with solid sheathing. <i>Hemp-lime</i> infill walls utilizing Method LIB shall not require <i>gypsum board</i> to be installed and shall use the minimum braced wall lengths listed in Section R602.10 . Adjustment factors in Table R602.10.3(4) shall be used as applicable. Alternatively, <i>hemp-lime</i> infill walls shall comply with Section R301.1 . Walls or wall sections without <i>hemp-lime</i> infill shall be permitted to use any bracing method allowed in Section R602.10 .					
BL103.3.3	Hemp-Lime Construction		No	NO	
BL103.3.3 Connection of light-frame walls to hemp-lime walls.					

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
Light-frame walls perpendicular to, or at an angle to, a <i>hemp-lime</i> wall assembly shall be fastened to the <i>hemp-lime</i> wall in accordance with Section R602 or R603 .					
BL103.3.4	Hemp-Lime Construction		No	NO	
BL103.3.4 Hemp-lime thickness. <i>Hemp-lime</i> infill shall be not less than 3 inches (76 mm) thick between face of framing and <i>finish</i> . Maximum <i>hemp-lime</i> wall thickness is limited by the average <i>unit wall weight</i> limit of 65 psf (317 kg/m ²) in Section BL103.3.1 , Item 4.					
BL103.3.5	Hemp-Lime Construction		No	NO	
BL103.3.5 Contact with structural metal. Structural metal members and components in contact with <i>hemp-lime</i> shall be protected in accordance with Section BL103.4 .					
BL103.3.6	Hemp-Lime Construction		No	NO	
BL103.3.6 Contact with wood members. <i>Hemp-lime</i> shall be permitted to be in contact with untreated wood members.					
BL103.3.7	Hemp-Lime Construction		No	NO	
BL103.3.7 Openings in walls. Doors, windows and similar openings in <i>hemp-lime</i> walls shall be in accordance with the following: 1. Rough framing for doors and windows shall be part of, or be fastened to, the wall framing in accordance with this code. 2. An <i>approved water-resistive barrier</i> shall be installed at openings in <i>hemp-lime</i> walls in accordance with Sections BL103.7.4 and BL104.5.1. 3. Header size and their maximum span above openings in bearing walls with <i>hemp-lime</i> infill shall be determined with Tables R602.7(1) and BL103.3.7 or an <i>approved design</i> by a <i>registered design professional</i>. 4. Cast-in-place <i>hemp-lime</i> over and overhanging the face of a header more than 3 inches (76 mm) shall require an <i>approved design</i> of its support by a <i>registered design professional</i>. 5. <i>Hemp-lime</i> blocks overhanging headers shall require an <i>approved design</i> of their support by a <i>registered design professional</i>.					
T BL103.3.7	Hemp-Lime Construction		No	NO	

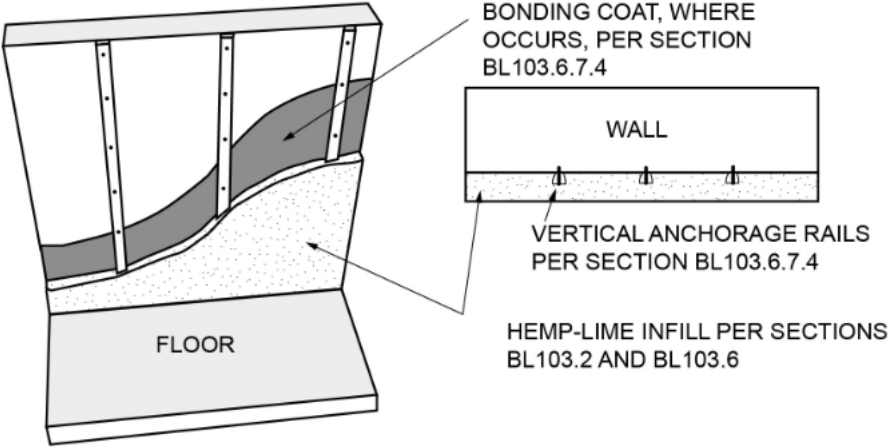
2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation																																		
TABLE BL103.3.7ALLOWABLE HEADER SPAN MULTIPLIER^a <table><thead><tr><th rowspan="2">WALL HEIGHT ABOVE HEADER</th><th colspan="4">UNIT WALL WEIGHT (psf)</th></tr><tr><th>15</th><th>30</th><th>45</th><th>65</th></tr></thead><tbody><tr><td>1'-0"</td><td>1.00</td><td>1.00</td><td>1.00</td><td>1.00</td></tr><tr><td>1'-6"</td><td>1.00</td><td>1.00</td><td>0.90</td><td>0.90</td></tr><tr><td>2'-0"</td><td>1.00</td><td>0.90</td><td>0.90</td><td>0.85</td></tr><tr><td>2'-6"</td><td>1.00</td><td>0.90</td><td>0.90</td><td>0.85</td></tr><tr><td>3'-0"</td><td>1.00</td><td>0.90</td><td>0.90</td><td>0.80</td></tr></tbody></table> For SI: 1 foot = 304.8 mm, 1 pound per square foot = 4.882 kg/m². a. Multiply the maximum allowable spans from Table R602.7(1) by the applicable factor to determine the adjusted maximum allowable header span.						WALL HEIGHT ABOVE HEADER	UNIT WALL WEIGHT (psf)				15	30	45	65	1'-0"	1.00	1.00	1.00	1.00	1'-6"	1.00	1.00	0.90	0.90	2'-0"	1.00	0.90	0.90	0.85	2'-6"	1.00	0.90	0.90	0.85	3'-0"	1.00	0.90	0.90	0.80
WALL HEIGHT ABOVE HEADER	UNIT WALL WEIGHT (psf)																																						
	15	30	45	65																																			
1'-0"	1.00	1.00	1.00	1.00																																			
1'-6"	1.00	1.00	0.90	0.90																																			
2'-0"	1.00	0.90	0.90	0.85																																			
2'-6"	1.00	0.90	0.90	0.85																																			
3'-0"	1.00	0.90	0.90	0.80																																			
BL103.3.8	Hemp-Lime Construction		No	NO																																			
BL103.3.8 Voids. <i>Voids shall be filled with hemp-lime or other approved material before application of finish.</i>																																							
BL103.3.9	Hemp-Lime Construction		No	NO																																			
BL103.3.9 Anchorage of hemp-lime. <i>Hemp-lime for interior and exterior stud walls shall be anchored or shall be in accordance with an approved design by a registered design professional. Horizontal anchorage rails shall be installed at not more than 24 inches (610 mm) on center and in accordance with Figures BL103.1(1) and BL103.1(3). Horizontal anchorage rails shall be no less than 1 inch by 2 inches (25 mm by 51 mm). Anchorage rails shall be wood, metal per Section BL103.4, or other approved material. Anchorage rails should be attached to the side of the stud facing the interior of the wall with one 8d box nail to each stud and run the entire length of the wall.</i>																																							
BL103.4	Hemp-Lime Construction		No	NO																																			
BL103.4 Contact with metal. <i>Metal in contact with hemp-lime shall be stainless steel or primed and painted with a coating in accordance with Section BL103.4.1.</i>																																							
BL103.4.1	Hemp-Lime Construction		No	NO																																			
BL103.4.1 Protective coatings. <i>Metal shall be painted with an epoxy, oil, bituminous paint or other approved coating. Water-based paints shall not be used.</i> Exception: Heads of pneumatically driven hot-dip galvanized nails.																																							
BL103.5	Hemp-Lime Construction		No	NO																																			
BL103.5 Mechanical, electrical and plumbing in hemp-lime infill.																																							

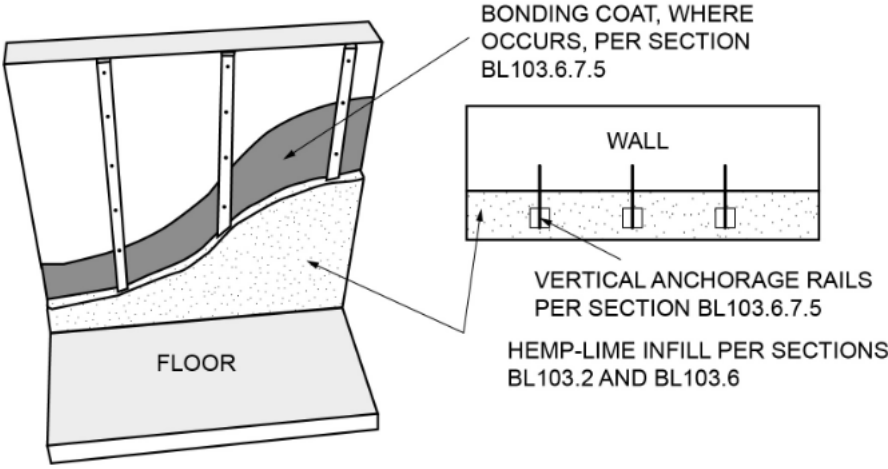
2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
Electrical and telecommunication wiring, panels and boxes, mechanical ducts, plumbing pipes and other mechanical, electrical and plumbing components in or in contact with <i>hemp-lime</i> infill shall be isolated in sleeves, pipes, conduits or tubing made of plastic, or of metal in accordance with Section BL103.4 , or separated from <i>hemp-lime</i> with an <i>approved</i> alkaline-resistant material.					
BL103.6	Hemp-Lime Construction		No	NO	
BL103.6 Hemp-lime installation methods. <i>Hemp-lime</i> shall be installed in accordance with Sections BL103.6.1 and BL103.6.2 , and one of Sections BL103.6.3 through BL103.6.7 .					
BL103.6.1	Hemp-Lime Construction		No	NO	
BL103.6.1 Mix and mixing. The materials and ratio of <i>hemp hurd</i> to <i>binder</i> to water shall match the specifications of the <i>approved</i> test samples in Sections BL106.3 and BL107.1 . The water-to- <i>binder</i> ratio shall be not less than 1:1 and not greater than 2:1 by weight or by <i>binder</i> manufacturer's recommendations. The <i>hemp hurd</i> , <i>binder</i> and water shall be thoroughly and uniformly mixed by manual or mechanical means.					
BL103.6.2	Hemp-Lime Construction		No	NO	
BL103.6.2 Formwork for hand-cast and <i>spray-applied</i> methods. Forms shall be removable or permanent and shall not deform under the lateral pressure of the installed wet <i>hemp-lime</i> .					
BL103.6.2.1	Hemp-Lime Construction		No	NO	
BL103.6.2.1 Permanent forms. Permanent forms shall be permitted to be installed on only one side. Permanent forms shall be <i>reed mats</i> or other <i>approved</i> materials with an open weave. Sheet materials shall not be used as permanent forms. Permanent forms remain after curing as a <i>finish</i> or substrate for another <i>finish</i> . Exception: Permanent forms of any material shall be permitted at the jambs, heads and sills of openings.					
BL103.6.2.2	Hemp-Lime Construction		No	NO	
BL103.6.2.2 Removable forms. Removable forms shall be removed within 24 hours after <i>hemp-lime</i> placement or per the <i>binder</i> manufacturer's specifications. Exception: Removable forms temporarily supporting <i>hemp-lime</i> infill above wall openings shall not be removed for a minimum of 3 days or per <i>binder</i> manufacturer's specifications.					
BL103.6.3	Hemp-Lime Construction		No	NO	
BL103.6.3 Hand-cast. <i>Hand-cast hemp-lime</i> infill shall be installed in uniform lifts not greater than 4 inches (102 mm) in height. Each lift shall be tamped to achieve stable walls free of <i>voids</i> .					
BL103.6.4	Hemp-Lime Construction		No	NO	
BL103.6.4 Spray-applied.					

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
<i>Spray-applied hemp-lime</i> infill shall be installed in accordance with Sections BL103.6.4.1 through BL103.6.4.4.					
BL103.6.4.1	Hemp-Lime Construction		No	NO	
BL103.6.4.1 Forms. <i>Forms</i> shall be installed on one side in accordance with Section BL103.6.2 or BL103.6.7.2 for <i>lined applications</i> .					
BL103.6.4.2	Hemp-Lime Construction		No	NO	
BL103.6.4.2 Mixing. <i>Mixing</i> shall be in accordance with Section BL103.6.1 or the spray equipment manufacturer's instructions.					
BL103.6.4.3	Hemp-Lime Construction		No	NO	
BL103.6.4.3 Installation. <i>Hemp-lime</i> shall be sprayed from the base up and per the spray equipment manufacturer's and/or <i>binder</i> manufacturer's instructions.					
BL103.6.4.4	Hemp-Lime Construction		No	NO	
BL103.6.4.4 Screeding. <i>Excess hemp-lime</i> shall be removed by <i>screeding</i> per the spray equipment manufacturer's and/or <i>binder</i> manufacturer's instructions.					
BL103.6.5	Hemp-Lime Construction		No	NO	
BL103.6.5 Precast blocks. <i>Precast hemp-lime</i> blocks shall be cast and installed in accordance with Sections BL103.6.5.1 through BL103.6.5.5 or per manufacturer's specifications.					
BL103.6.5.1	Hemp-Lime Construction		No	NO	
BL103.6.5.1 Block dimensions. <i>Hemp-lime</i> blocks shall be a minimum thickness of 3 inches (76 mm) in all dimensions and shall not exceed the maximum thickness in accordance with Section BL103.3.4.					
BL103.6.5.2	Hemp-Lime Construction		No	NO	
BL103.6.5.2 Casting. <i>Hemp-lime</i> blocks shall be cast in accordance with Sections BL103.6.1 through BL103.6.6 , as applicable, or by other means that produce <i>approved</i> blocks.					
BL103.6.5.3	Hemp-Lime Construction		No	NO	
BL103.6.5.3 Mortar.					

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
Mortar shall consist of lime and sand or other aggregate with a ratio of not less than 1:1 and not greater than 1:3, or other <i>approved</i> mortar. The lime shall be hydrated Type N or S, or hydraulic lime.					
BL103.6.5.4	Hemp-Lime Construction		No	NO	
BL103.6.5.4 Installation. <i>Hemp-lime</i> blocks shall be installed in a <i>running bond</i> between and around wall framing members. Mortar shall fill all <i>voids</i> between blocks and shall be not less than 1/8 inch (3 mm) thick. Spaces between blocks and framing shall be not more than 3/4 inch (19 mm) and shall be filled with mortar.					
BL103.6.5.5	Hemp-Lime Construction		No	NO	
BL103.6.5.5 Hemp-lime block veneer. <i>Hemp-lime</i> block veneer shall not exceed 50 psf (244 kg/m ²) of veneer only <i>unit wall weight</i> , shall be limited to 5-inch (127 mm) thickness, and shall be anchored to the supporting wall studs in accordance with Section R703.8.4 or secured with <i>approved</i> ties and fasteners to an <i>approved</i> backing. Metal ties and fasteners shall be protected in accordance with Section BL103.4 .					
BL103.6.6	Hemp-Lime Construction		No	NO	
BL103.6.6 Hemp-lime panels. <i>Hemp-lime</i> panels shall require an <i>approved</i> design by a <i>registered design professional</i> .					
BL103.6.7	Hemp-Lime Construction		No	NO	
BL103.6.7 Lined application. Interior and exterior <i>hemp-lime lined applications</i> shall be installed in accordance with Sections BL103.6.7.1 through BL103.6.7.6 and Sections BL103.6.3 through BL103.6.6 , as applicable.					
BL103.6.7.1	Hemp-Lime Construction		No	NO	
BL103.6.7.1 General. Prior to installation, the concrete or masonry walls receiving the installation shall be clean and free of loose mortar. Lined installations on basement walls shall require an <i>approved</i> design by a registered design professional. Exterior applications shall be in accordance with Section BL103.7.6 . Attachment of <i>precast</i> blocks to the receiving wall shall be in accordance with Section BL103.6.5.5 . Attachment of <i>hemp-lime</i> panels to the receiving wall shall be in accordance with Section BL103.6.6 .					
BL103.6.7.2	Hemp-Lime Construction		No	NO	
BL103.6.7.2 Formwork. Forms shall be in accordance with Section BL103.6.2 . Permanent <i>formwork</i> shall not be allowed on the nonreceiving wall side.					
BL103.6.7.3	Hemp-Lime Construction		No	NO	

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
BL103.6.7.3 Thin lining. Thin linings are from 3 inches to 4 ³ / ₄ inches (76 mm to 121 mm) thick. Hand troweled <i>hemp-lime</i> shall be installed over a <i>bonding coat</i> .					
BL103.6.7.4	Hemp-Lime Construction		No	NO	
BL103.6.7.4 Medium lining. Medium linings exceed 4 ³ / ₄ inches (121 mm) and are not greater than 6 ¹ / ₂ inches (165 mm) thick. For <i>hand-cast</i> or <i>spray-applied</i> , 1 ¹ / ₂ -inch by 1 ¹ / ₂ -inch (38 mm × 38 mm) dovetail-shaped vertical anchorage rails shall be attached with the narrowest face to the receiving wall, spaced not less than 20 inches (508 mm) and not greater than 32 inches (813 mm), with fasteners not less than 2 feet (610 mm) and not greater than 3 feet (914 mm) apart. <i>Hand-cast</i> medium linings shall be installed over a <i>bonding coat</i> on the receiving wall. See Figure BL103.6.7.4 .					
F BL103.6.7.4	Hemp-Lime Construction		No	NO	

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
 FIGURE BL103.6.7.4 TYPICAL HEMP-LIME MEDIUM LINING					
BL103.6.7.5	Hemp-Lime Construction		No	NO	
BL103.6.7.5 Thick lining. Thick linings exceed 6½ inches (165 mm) and shall not be greater than 8 inches (203 mm) thick or per the <i>binder</i> manufacturer’s specifications. For <i>hand-cast</i> or spray-applied, 1½-inch by 2½-inch (38 mm × 64 mm) vertical anchorage rails shall be attached with the 2½-inch (64 mm) face parallel to the receiving wall and spaced not less than 20 inches (508 mm) and not greater than 32 inches (813 mm). The anchorage rails shall be fastened to and separated from the receiving wall with 2-inch (51 mm) spacers not less than 3 feet (914 mm) and not greater than 4 feet (1219 mm) apart. <i>Hand-cast</i> thick linings shall be installed over a <i>bonding coat</i> on the receiving wall. See Figure BL103.6.7.5.					
F BL103.6.7.5	Hemp-Lime Construction		No	NO	

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
 FIGURE BL103.6.7.5 TYPICAL HEMP-LIME THICK LINING					
BL103.6.7.6	Hemp-Lime Construction		No	NO	
BL103.6.7.6 Minimum thickness at anchorage rails. The minimum thickness of <i>hemp-lime</i> between the exterior face of vertical anchorage rails and the finished face of <i>hemp-lime</i> shall be 3 inches (76 mm) or in accordance with the <i>binder</i> manufacturer's specifications.					
BL103.7	Hemp-Lime Construction		No	NO	
BL103.7 Moisture control. <i>Hemp-lime</i> assemblies shall be protected from water intrusion and damage in accordance with Sections BL103.7.1 through BL103.7.9.					
BL103.7.1	Hemp-Lime Construction		No	NO	
BL103.7.1 Water-resistive barriers. Water-resistive barriers are prohibited on <i>hemp-lime</i> walls, except as permitted or required elsewhere in this appendix.					
BL103.7.2	Hemp-Lime Construction		No	NO	
BL103.7.2 Vapor retarders. Vapor retarders are prohibited on <i>hemp-lime</i> walls, except as permitted or required elsewhere in this appendix.					
BL103.7.3	Hemp-Lime Construction		No	NO	
BL103.7.3 Penetrations in hemp-lime walls. Penetrations in exterior <i>hemp-lime</i> walls shall be sealed with an <i>approved</i> sealant or gasket on the exterior side of the wall in all <i>climate zones</i> and on the interior side of the wall in Climate Zones 5, 6, 7, 8 and Marine 4, as defined in Chapter 11.					

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
BL103.7.4	Hemp-Lime Construction		No	NO	
BL103.7.4 Horizontal surfaces. <i>Hemp-lime walls and other hemp-lime assemblies shall be provided with a water-resistive barrier at weather-exposed horizontal surfaces. The water-resistive barrier shall be of a material and installation that will prevent water from entering the wall system. Horizontal surfaces shall include exterior window sills and sills at exterior niches. Horizontal surfaces shall be sloped not less than 1 unit vertical in 12 units horizontal (8-percent slope) and shall drain away from hemp-lime walls and other assemblies. Where the water-resistive barrier is below the finish material, it shall be sloped not less than 1 unit vertical in 12 units horizontal (8-percent slope) and shall drain to the exterior surface of the hemp-lime wall's vertical finish.</i>					
BL103.7.5	Hemp-Lime Construction		No	NO	
BL103.7.5 Air barrier. <i>Exterior hemp-lime walls shall have a vapor-permeable air barrier on all exterior and interior surfaces, except as permitted or required elsewhere in this appendix. Plaster in accordance with Section BL104.3 shall be acceptable as an air barrier.</i>					
BL103.7.6	Hemp-Lime Construction		No	NO	
BL103.7.6 Separation of hemp-lime and earth or paved areas. <i>Hemp-lime shall be not less than 8 inches (203 mm) above exposed earth or paved areas.</i>					
BL103.7.7	Hemp-Lime Construction		No	NO	
BL103.7.7 Separation of exterior plaster and earth or paved areas. <i>Exterior plaster applied to hemp-lime shall be not less than 8 inches (203 mm) above exposed earth or paved areas.</i>					
BL103.7.8	Hemp-Lime Construction		No	NO	
BL103.7.8 Separation of hemp-lime and exterior plaster from foundation. <i>Hemp-lime and exterior plaster shall be separated from the foundation with an approved moisture barrier.</i>					
BL103.7.9	Hemp-Lime Construction		No	NO	
BL103.7.9 Base of wall flashing. <i>The outer face of exterior walls shall be flashed to prevent water intrusion at the base of the wall.</i>					
BL104.1	Finishes		No	NO	
BL104.1 General. <i>The interior and exterior surfaces of hemp-lime walls shall be protected with a finish in accordance with Section BL104. Finishes shall have a vapor permeance rating of 5 perms [285 mg/(s × m² × Pa)] or greater tested in accordance with Procedure B of ASTM E96.</i>					

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
BL104.2	Finishes		No	NO	
BL104.2 Moisture content prior to application of finish. <i>Hemp-lime</i> infill shall have an average moisture content of no more than 20 percent at a depth of 1½ inches (38 mm), as measured from the face of the wall to which the <i>finish</i> will be applied for each wall. Moisture content shall be measured with a probe-style wood moisture equivalent (WME) meter.					
BL104.3	Finishes		No	NO	
BL104.3 Plaster finish. Exterior <i>plaster</i> shall be lime <i>plaster</i> , clay <i>plaster</i> in accordance with Section BL104.3.6.3 , or other <i>approved plaster</i> . Interior plasters shall be any <i>plaster</i> permitted in Sections BL104.3.1 through BL104.3.9 . Plasters shall be permitted to be applied directly to the surface of the <i>hemp-lime</i> infill without reinforcement, except that the juncture of dissimilar substrates shall be in accordance with Section BL104.5 . Plasters shall have a thickness of not less than ½ inch (13 mm) on the interior and ¾ inch (19 mm) on the exterior and shall be installed in not less than two coats, or per <i>binder</i> manufacturer's instructions. Not less than ⅜ inch (10 mm) exterior <i>plaster</i> is permitted behind exterior <i>cladding</i> in accordance with Section BL104.6 .					
BL104.3.1	Finishes		No	NO	
BL104.3.1 Membranes. Membranes are prohibited between <i>plaster</i> and <i>hemp-lime</i> , except where a membrane is allowed or required elsewhere in this appendix.					
BL104.3.2	Finishes		No	NO	
BL104.3.2 Lath and mesh for plaster. The surface of the <i>hemp-lime</i> functions as lath, and other lath or mesh shall not be required, except as required in Section BL104.5 .					
BL104.3.3	Finishes		No	NO	
BL104.3.3 Plaster additives. Additives shall be permitted to increase <i>plaster</i> workability, durability, strength or water resistance. Additives shall not reduce the <i>plaster</i> vapor permeance rating to less than 5 perms [285 mg/(s × m²× Pa)]. Additives containing polymers are prohibited.					
BL104.3.4	Finishes		No	NO	
BL104.3.4 Plaster reinforcing fibers. Reinforcing fibers shall be permitted in <i>plaster</i> . Acceptable reinforcing fibers include hemp fiber, chopped straw, sisal, animal hair and fiberglass.					
BL104.3.5	Finishes		No	NO	
BL104.3.5 Lime plaster. Lime <i>plaster</i> is any <i>plaster</i> with a <i>binder</i> primarily composed of calcium hydroxide [Ca(OH)²], including Type N or S hydrated lime, hydraulic lime, natural hydraulic lime or slaked quicklime. Hydrated lime shall comply with ASTM C206 . Hydraulic lime shall comply with ASTM C1707 . Natural hydraulic lime shall comply with ASTM C141 and CEN EN 459 . Quicklime shall comply with ASTM C5 . Lime <i>plaster</i> shall contain sufficient lime to fully bind the sand or other aggregate and shall be permitted to contain <i>pozzolans</i> .					

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
BL104.3.6	Finishes		No	NO	
BL104.3.6 Clay plaster. <i>Clay plaster shall be any plaster having a clay or clay subsoil binder. Such plaster shall contain sufficient clay to fully bind the sand or other aggregate.</i>					
BL104.3.6.1	Finishes		No	NO	
BL104.3.6.1 Clay subsoil requirements. <i>The suitability of clay subsoil shall be determined in accordance with Figure 2, Ribbon Test, and Figure 3, Ball Test, in the appendix of ASTM E2392/E2392M.</i>					
BL104.3.6.2	Finishes		No	NO	
BL104.3.6.2 Thickness and coats. <i>Clay plaster shall be not less than $\frac{3}{4}$ inch (19 mm) thick and shall be applied in not less than two coats.</i>					
BL104.3.6.3	Finishes		No	NO	
BL104.3.6.3 Rain-exposed. <i>Clay plaster, where exposed to rain, shall be finished with an approved erosion-resistant finish.</i>					
BL104.3.6.4	Finishes		No	NO	
BL104.3.6.4 Prohibited finish coat. <i>Plaster containing Portland cement shall not be permitted as a finish coat over clay plasters.</i>					
BL104.3.7	Finishes		No	NO	
BL104.3.7 Clay-lime plaster. <i>Clay-lime plaster shall be composed of refined clay or clay subsoil, sand and lime.</i>					
BL104.3.8	Finishes		No	NO	
BL104.3.8 Hemp-lime plaster. <i>Hemp-lime plaster shall be composed of hemp hurd and lime and shall be permitted to contain sand or other aggregate, and pozzolans.</i>					
BL104.3.9	Finishes		No	NO	
BL104.3.9 Hemp-clay plaster. <i>Hemp-clay plaster shall be composed of hemp hurd and clay or clay subsoil and shall be permitted to contain sand or other aggregate.</i>					
BL104.4	Finishes		No	NO	
BL104.4 Separation of wood and plaster.					

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
Wood framing at the exterior surface of <i>hemp-lime</i> walls shall be separated from exterior <i>plaster</i> with Grade D paper or other <i>approved</i> material, except where the wood is naturally durable. Exception: Exterior clay <i>plaster</i> shall not be required to be separated from wood.					
BL104.5	Finishes		No	NO	
BL104.5 Bridging across dissimilar substrates. Bridging shall be installed onto and across dissimilar substrates prior to the application of <i>plaster</i> on the interior or exterior. Acceptable bridging materials include expanded metal lath, woven wire mesh, welded wire mesh, fiberglass mesh, <i>reed mat</i>, burlap or other <i>approved</i> materials. Bridging shall extend not less than 3 inches (76 mm) on both sides of the juncture.					
BL104.5.1	Finishes		No	NO	
BL104.5.1 Returns on recessed openings. <i>Plaster</i> or other exterior <i>finish</i> returns at recessed windows and doors shall require an <i>approved</i> design that prevents the intrusion of moisture.					
BL104.6	Finishes		No	NO	
BL104.6 Nonplaster exterior cladding. Nonplaster exterior <i>cladding</i> shall be spaced not less than 1 inch (25 mm) from the face of the <i>water-resistive barrier</i> or <i>air barrier</i> to the back of the <i>cladding</i> to allow for <i>ventilation</i>. The ventilation space shall be open at the top and bottom and be provided with insect screening.					
BL104.6.1	Finishes		No	NO	
BL104.6.1 Water-resistive and air barriers. Water-resistive barriers and <i>air barriers</i>, when <i>vapor permeable</i>, are permitted to be applied directly to the <i>hemp-lime</i> when exterior <i>cladding</i> is installed in accordance with Section BL104.6.					
BL104.7	Finishes		No	NO	
BL104.7 High moisture interior environments. Exterior <i>hemp-lime</i> walls enclosing showers or steam rooms shall be lined on the interior side with ceramic tiles on an <i>approved</i> tile backer board, ceramic tiles on a lime <i>plaster</i>, or a <i>tadelakt finish</i>.					
BL105.1	Fire Resistance		No	NO	
BL105.1 Fire-resistance rating. <i>Hemp-lime</i> walls do not have a fire-resistance rating. Fire-resistance ratings for <i>hemp-lime</i> wall assemblies shall be determined by testing in accordance with ASTM E119 or UL 263.					
BL105.2	Fire Resistance		No	NO	
BL105.2 Clearance to fireplaces and chimneys.					

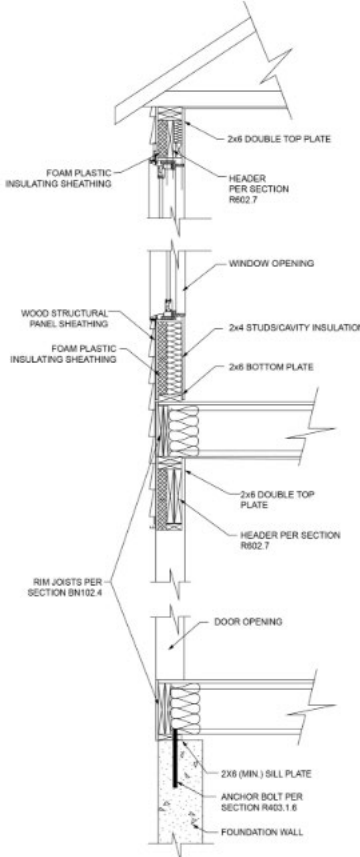
2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
<i>Hemp-lime</i> surfaces adjacent to fireplaces or chimneys shall be finished with not less than $\frac{3}{8}$ inch (10 mm) thick <i>plaster</i> of any type permitted by this appendix. Clearance from the face of such <i>plaster</i> to fireplaces and chimneys shall be maintained as required from fireplaces and chimneys to combustibles in Chapter 10 , or as required by manufacturer's instructions, whichever is more restrictive.					
BL106.1	Thermal Performance		No	NO	
BL106.1 Mass walls. Walls with <i>hemp-lime</i> infill shall be classified as mass walls in accordance with Section N1102.2.5 (R402.2.5) and shall meet the <i>R</i> -value requirements for mass walls in Table N1102.1.3 (R402.1.3), when their heat capacity (<i>C</i>) is greater than or equal to 6 Btu/ft ² × °F (123 kJ/m ² × K) in Equation BL-1 . $C = \rho \times t \times 0.299 \text{ Btu/lb} \times ^\circ\text{F}$ (Equation BL-1) where: <i>C</i> = Heat capacity (Btu/ft ² × °F). ρ = Density of <i>hemp-lime</i> infill (pounds per cubic foot). <i>t</i> = Thickness of <i>hemp-lime</i> infill (feet).					
BL106.2	Thermal Performance		No	NO	
BL106.2 Thermal resistance. <i>Hemp-lime</i> has the unit thermal resistance values in accordance with Table BL106.2 . Alternatively, the unit <i>R</i> -value of <i>hemp-lime</i> shall be determined with one of the following tests by an <i>approved</i> laboratory: ASTM C177 ASTM C518 , ASTM C1114 or ASTM C1363 . Test results from a specific <i>hemp-lime</i> mix shall be permitted to be used for multiple projects.					
T BL106.2	Thermal Performance		No	NO	

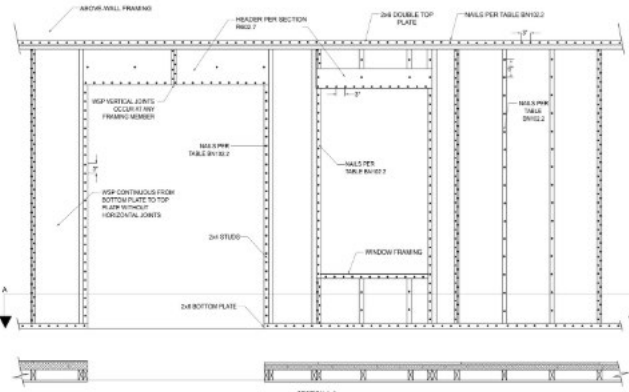
2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation										
TABLE BL106.2THERMAL RESISTANCE OF HEMP-LIME^a <table><thead><tr><th>DENSITY (pounds per cubic foot)</th><th>R-VALUE (ft² *°F *h/Btu per inch of thickness)</th></tr></thead><tbody><tr><td>12.5</td><td>R-2.10</td></tr><tr><td>15</td><td>R-1.88</td></tr><tr><td>20</td><td>R-1.54</td></tr><tr><td>25</td><td>R-1.20</td></tr></tbody></table> For SI: 1 pound per cubic foot = 1.6 kg/m³. a. Linear interpolation is permitted. Extrapolation is not permitted.						DENSITY (pounds per cubic foot)	R-VALUE (ft ² *°F *h/Btu per inch of thickness)	12.5	R-2.10	15	R-1.88	20	R-1.54	25	R-1.20
DENSITY (pounds per cubic foot)	R-VALUE (ft ² *°F *h/Btu per inch of thickness)														
12.5	R-2.10														
15	R-1.88														
20	R-1.54														
25	R-1.20														
BL106.3	Thermal Performance		No	NO											
BL106.3 Density measurement. Hemp-lime density shall be measured based on <i>approved</i> test samples as follows: 1.Three samples of the proposed <i>hemp-lime</i> mix shall be placed moist to completely fill a 6-inch by 6-inch by 12-inch (152 mm × 152 mm × 305 mm) <i>form</i>, a 6-inch (152 mm) diameter by 12-inch (305 mm) length <i>form</i> or other <i>approved form</i>, following the application method and procedure that will be used during construction. 2.Samples shall be removed from the forms within 24 hours after <i>hemp-lime</i> placement or per the <i>binder</i> manufacturer’s specifications. 3.Samples shall be cured/dried for a minimum of 14 days in indoor ambient conditions before density determination. 4.Density shall be determined by Equation BL-2. $\rho = w/V$ (Equation BL-2) where: ρ = Density of hemp-lime infill (pounds per cubic foot). w = Weight of hemp-lime infill sample (pounds). V = Volume of hemp-lime sample (cubic feet).															
BL106.4	Thermal Performance		No	NO											
BL106.4 Compliance with Section R302.10.1. Hemp-lime infill shall meet the requirements for insulation materials in Section R302.10.1 for <i>flame spread index</i> and <i>smoke-developed index</i> as tested in accordance with ASTM E84.															
BL107.1	Mechanical Performance		No	NO											
BL107.1 Hemp-lime infill integrity. The integrity of <i>hemp-lime</i> infill and its ability to hold a <i>plaster finish</i> shall be demonstrated with a minimum compressive strength of 29 psi (0.2 MPa). Test results from a specific <i>hemp-lime</i> mix shall be permit-ted to be used for multiple projects.															

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
BL107.1.1	Mechanical Performance		No	NO	
BL107.1.1 Demonstration of compressive strength. The compressive strength of the <i>hemp-lime</i> mix shall be demonstrated to the <i>building official</i> before the placement of <i>hemp-lime</i> infill, with compressive strength tests and an associated report by an <i>approved</i> laboratory tested as follows: 1.Three samples of the proposed <i>hemp-lime</i> mix shall be placed moist to completely fill a 6-inch by 6-inch by 12-inch (152 mm × 152 mm × 305 mm) <i>form</i>, a 6-inch (152mm) diameter by 12-inch (305 mm) length <i>form</i>, or other <i>approved form</i>, following the application method and procedure that will be used during construction. 2.Samples shall be removed from the forms within 24 hours after <i>hemp-lime</i> placement or per the <i>binder</i> manufacturer’s specifications. 3.Samples shall be cured/dried for a minimum of 14 days in indoor ambient conditions before testing. 4.The opposite faces shall be capped with <i>plaster</i> of paris to achieve smooth and parallel faces, after which the sample shall reach ambient moisture conditions before testing. 5.The horizontal cross section of the dried sample as tested and the maximum applied load at failure shall be used to calculate the sample’s compressive strength. 6.The average value of the samples shall be used to determine the mix’s compressive strength.					
BL 108.1	Referenced Standards		No	NO	
BL108.1 General. See Table BL108.1 for standards that are referenced in various sections of this appendix. Standards are listed by the standard identification with the effective date, the standard title and the section or sections of this appendix that reference this standard.					

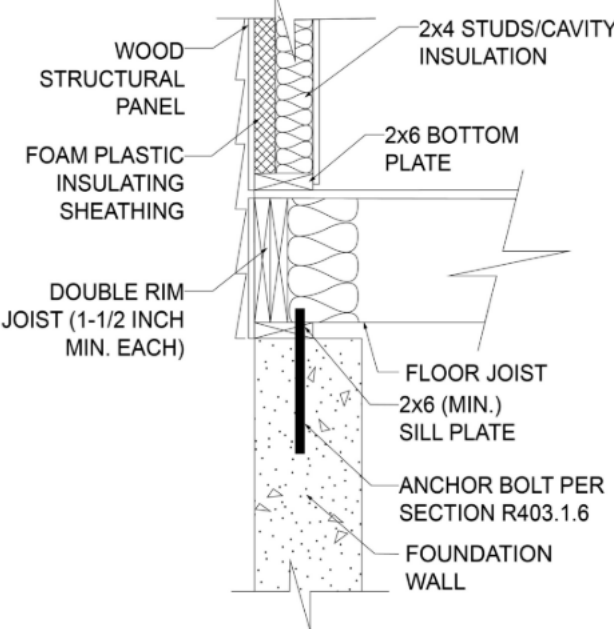
2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
TABLE BL108.1REFERENCED STANDARDS					
STANDARD ACRONYM	STANDARD NAME	SECTIONS HEREIN REFERENCED			
ASTM C5—10	Standard Specification for Quicklime for Structural Purposes	BL104.3.5			
ASTM C141/C141M—14	Standard Specification for Hydrated Hydraulic Lime for Structural Purposes	BL104.3.5			
ASTM C177—19	Standard Test Method for Steady-State Heat Flux Measurements and Thermal Transmission Properties by Means of the Guarded-Hot-Plate Apparatus	BL106.2			
ASTM C208—14	Standard Specification for Finishing Hydrated Lime	BL104.3.5			
ASTM C518—21	Transmission Properties by Means of the Heat Flow Meter Apparatus	BL106.2			
ASTM C1114—08(2019)	Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Thin-Heater Apparatus	BL106.2			
ASTM C1383—19	Standard Test Method for Thermal Performance of Building Materials and Envelope Assemblies by Means of a Hot Box Apparatus	BL106.2			
ASTM C1707—11	Standard Specification for Pozzolanic Hydraulic Lime for Structural Purposes	BL104.3.5			
ASTM E84—21a	Standard Test Method for Surface Burning Characteristics of Building Materials	BL106.4			
ASTM E98/E98M—21	Standard Test Methods for Water Vapor Transmission of Materials	BL104.1			
ASTM E119—20	Standard Test Methods for Fire Tests of Building Construction and Materials	BL105.1			
ASTM E2392/E2392M—10(2018)	Standard Guide for Design of Earthen Wall Building Systems	BL104.3.6.1			
CEN EN 459—2015	Building Lime—Part 1: Definitions, Specifications and Conformity Criteria; Part 2: Test Methods	BL104.3.5			
UL263—2011	Fire Test of Building Construction and Materials—with Revisions through August 2021	BL105.1			
APPENDIX BM 3D-PRINTED BUILDING CONSTRUCTION					
This Appendix Not Adopted					
BM101.1	General		No	NO	
BM101.1 Scope. Buildings, structures and building elements fabricated in whole or in part using 3D-printed construction techniques shall be designed, constructed and inspected in accordance with the provisions contained in this appendix and other applicable requirements in this code. Exception: This appendix shall not be applicable to 3D-printed buildings constructed of concrete.					
APPENDIX BN EXTENDED PLATE WALL CONSTRUCTION					
This Appendix Not Adopted					
BN101.1	General		No	NO	
BN101.1 General. Detached one- and two-family or townhouse buildings using extended plate wall (EPW) construction shall comply with this codeand all of the following: 1.Not more than two <i>stories above grade plane</i> in height.					

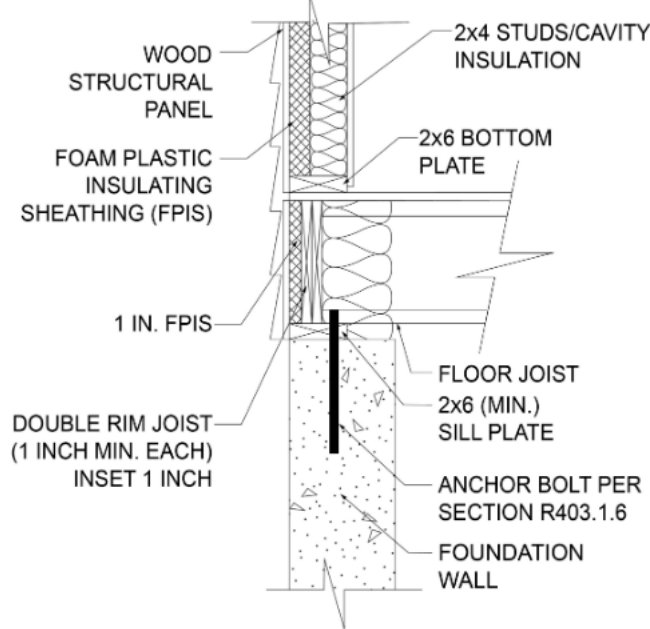
2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
2.Limited to <i>Seismic Design Categories A and B</i> as determined from Figures R301.2.2.1(1) through (7). 3.Limited to ultimate design wind speeds not more than 115 mph (185 kph) as determined from Figure R301.2(2). 4.Comply with the provisions of Section R602, except as modified by the provisions of this appendix. Exception: Buildings using EPW construction in accordance with an <i>approved design by a registered design professional</i>.					
BN102.1	Construction Requirements		No	NO	
BN102.1 Framing. The 2 × 6 top and bottom plates and 2 × 4 studs shall be used in accordance with Figures BN102.1(1) and BN102.1(2). A single top plate shall not be permitted. Wall framing shall comply with the requirements for 2 × 4 framing in accordance with Section R602.					
F BN102.1(1)	Construction Requirements		No	NO	

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
 FIGURE BN102.1(1) EXTENDED PLATE WALL (EPW) CONSTRUCTION, SECTION VIEW					
F BN102.1(2)	Construction Requirements		No	NO	

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation											
 FIGURE BN102.1(2) EXTENDED PLATE WALL, ELEVATION VIEW																
BN102.2	Construction Requirements		No	NO												
BN102.2 Wood structural panel sheathing. Wood structural panel sheathing with a nominal thickness of $\frac{7}{16}$ inch (11 mm) to $\frac{1}{2}$ inch (12.7 mm) shall be installed vertically and attached to wall plates and studs in accordance with Figure BN102.1(2) and Table BN102.2. The vertical joints between adjacent wood structural panels shall occur only at framing members. Where used as part of wall bracing, each wood structural panel shall be installed without horizontal joints between the extended top and bottom plates.																
T BN 102.2	Construction Requirements		No	NO												
TABLE BN102.2 SHEATHING FASTENER REQUIREMENTS FOR EPW <table><tr><th rowspan="2">MINIMUM NAIL LENGTH AND DIAMETER</th><th colspan="2">MAXIMUM FASTENER SPACING</th></tr><tr><th>At perimeter of wood structural panels (inches)</th><th>In field of wood structural panels (inches)</th></tr><tr><td>No. 37 power-tool driven common nail (3$\frac{1}{2}$" × 0.131")^{a, b}</td><td>3" o.c.</td><td>6" o.c.</td></tr><tr><td>16d box nail (3$\frac{1}{2}$" × 0.130")^{a, c}</td><td>3" o.c.</td><td>6" o.c.</td></tr></table> For SI: 1 inch = 25.4 mm. a. At top and bottom plates where the wood structural panel is in direct contact with the framing, 8d common nail (2$\frac{1}{2}$ inches × 0.131 inch) shall be permitted. b. Full round head nail with minimum head diameter of 0.281 inch (7 mm). c. Nails are in accordance with ASTM F1667.						MINIMUM NAIL LENGTH AND DIAMETER	MAXIMUM FASTENER SPACING		At perimeter of wood structural panels (inches)	In field of wood structural panels (inches)	No. 37 power-tool driven common nail (3 $\frac{1}{2}$ " × 0.131") ^{a, b}	3" o.c.	6" o.c.	16d box nail (3 $\frac{1}{2}$ " × 0.130") ^{a, c}	3" o.c.	6" o.c.
MINIMUM NAIL LENGTH AND DIAMETER	MAXIMUM FASTENER SPACING															
	At perimeter of wood structural panels (inches)	In field of wood structural panels (inches)														
No. 37 power-tool driven common nail (3 $\frac{1}{2}$ " × 0.131") ^{a, b}	3" o.c.	6" o.c.														
16d box nail (3 $\frac{1}{2}$ " × 0.130") ^{a, c}	3" o.c.	6" o.c.														
BN102.3	Construction Requirements		No	NO												
BN102.3 Wall bracing. Wall bracing for EPW construction shall comply with the requirements for WSP or CS-WSP or CS-G bracing methods in Section R602.10, except that the sheathing fasteners shall comply with Table BN102.2.																
BN 102.3.1	Construction Requirements		No	NO												

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
BN102.3.1 Simplified wall bracing. With the exception of Section R602.12.2 , Item 2, provisions of Section R602.12 shall be applicable to EPW construction. The fastening schedule for <i>wood structural panels</i> shall comply with Table BN102.2 .					
BN102.4	Construction Requirements		No	NO	
BN102.4 Rim joists. Rim joists supporting an EPW shall comply with Figure BN102.4(1) or BN102.4(2) . Sawn 2× lumber or <i>engineered wood rim board</i> shall be used to construct rim (band) joists. <i>Engineered wood rim board</i> shall comply with Section R602.1.7 . The minimum bearing length requirements for the floor joists shall be satisfied or joists shall be supported with metal hangers.					
F BN102.4(1)	Construction Requirements		No	NO	

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
 WOOD STRUCTURAL PANEL FOAM PLASTIC INSULATING SHEATHING DOUBLE RIM JOIST (1-1/2 INCH MIN. EACH) 2x4 STUDS/CAVITY INSULATION 2x6 BOTTOM PLATE FLOOR JOIST 2x6 (MIN.) SILL PLATE ANCHOR BOLT PER SECTION R403.1.6 FOUNDATION WALL For SI: 1 inch = 25.4 mm. FIGURE BN102.4(1) RIM JOIST CONSTRUCTION FOR EPW—DOUBLE MEMBER					
F BN102.4(2)	Construction Requirements		No	NO	

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
 For SI: 1 inch = 25.4 mm. FIGURE BN102.4(2) RIM JOIST CONSTRUCTION FOR EPW—INSET DOUBLE MEMBER					
BN102.4.1	Construction Requirements		No	NO	
BN102.4.1 Rim joist used as rim header. Wood rim boards, or band joists, that serve as rim board headers shall be constructed in accordance with Section R602.7.2.					
BN102.5	Construction Requirements		No	NO	
BN102.5 Foam plastic insulating sheathing.					

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
Foam plastic <i>insulating sheathing</i> with a total thickness of 2 inches (51 mm) shall be installed directly to the exterior surface of the 2 × 4 studs between top and bottom plates and flush with the 2 × 6 top and bottom plates as shown in Figure BN102.1(1) . The foam plastic <i>insulating sheathing</i> shall comply with ASTM C578 or ASTM C1289 with a minimum compressive strength of 15 psi and shall be permitted to be installed in one or more layers.					
BN102.6	Construction Requirements		No	NO	
BN102.6 Cladding attachment. <i>Cladding</i> shall be specified and installed in accordance with Section R703 and one of the following: 1.Table R703.3.3 for siding attachment to <i>wood structural panels</i> only. 2.Table R703.8.4(2) for brick tie spacing and attachment to <i>wood structural panels</i> only. 3.Fastening schedule and fasteners as required by Table R703.3(1), except fastener length shall be selected to meet or exceed the minimum required penetration into framing.					
BN102.7	Construction Requirements		No	NO	
BN102.7 Uplift connections.					
APPENDIX BO EXISTING BUILDINGS AND STRUCTURES					
This Appendix Not Adopted					
BO101.1	Purpose and Intent		No	NO	
BO101.1 General. The purpose of these provisions is to encourage the continued use or reuse of legally existing buildings and structures. Structural elements and systems shall comply with Section R102.6.1 and the provisions of this appendix. <i>Repairs, alterations, additions</i> and relocation of existing buildings and structures shall comply with the provisions of this code for new construction, except as modified by this appendix.					
Bo102.3	Compliance		No	NO	
BO102.3 Structural. Structural elements and systems that are altered, repaired or replaced shall comply with Section R102.6.1 and the structural provisions of this appendix. The work performed shall not cause the structure to become less compliant with this code than it was before the work was undertaken.					
BO102.3.1	Compliance		No	NO	
BO102.3.1 Design loads. The minimum design loads for the structure shall be the loads applicable at the time the <i>building</i> was constructed. The minimum design loads for new structural components shall comply with this code. Structural elements that are uncovered during the course of the <i>alteration</i> and that are found to be unsafe shall be repaired in accordance with Section R102.6.1 .					

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
BO103.1	Definitions		No	NO	
BO103.1 General. The terms used in this appendix, and not provided in Chapter 2 , are defined as follows: DANGEROUS. Any <i>building</i> , structure or portion thereof that meets any of the conditions described below shall be deemed dangerous: 1.The building or structure has collapsed, has partially collapsed, has moved off its foundation or lacks the necessary support of the ground. 2.There exists a significant risk of collapse, detachment or dislodgement of any portion, member, appurtenance or ornamentation of the building or structure under permanent, routine or frequent loads; under actual loads already in effect; or under snow, wind, rain, flood, earthquake aftershock or other environmental loads when such loads are imminent.					
BO104.1	Repairs		No	NO	
BO104.1 General. Repairs shall comply with the applicable provisions of this code for new construction or as permitted by this appendix.					
BO104.2.1	Repairs		No	NO	
BO104.2.1 New and replacement materials. Except as otherwise required or permitted by this code, materials permitted by this code for new construction shall be used. Like materials shall be permitted for <i>repairs</i> and <i>alterations</i> , provided that unsafe conditions are not created. Hazardous materials shall not be used where this code would not permit their use in <i>buildings</i> of similar occupancy, purpose and location.					
BO104.2.2	Repairs		No	NO	
BO104.2.2 Existing materials. Materials already in use in a <i>building</i> in compliance with requirements or approvals in effect at the time of their erection or installation shall be permitted to remain in use unless determined by the <i>building official</i> to be unsafe.					
BO104.5	Repairs		No	NO	
BO104.5 Structural. Repaired structural elements and systems shall comply with Section R102.6.1 and the structural provisions of this appendix.					
BO105.1	Alterations		No	NO	
BO105.1 General. Alterations to existing buildings shall comply with the provisions of this code for new construction, except as permitted by Sections BO105.2 through BO105.8 . Engineered design in accordance with Section R301.1.3 shall be permitted to meet the requirements of this section. Alterations shall not cause the existing building to become less compliant with the provisions of this code for new construction than the existing building was prior to the work.					

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
BO105.4.1			No	NO	
BO105.4.1 Decreased structural capacity. Where an <i>alteration</i> causes a decrease in capacity in any structural component, that structural component shall be shown to comply or shall be altered to comply with the applicable provisions of Chapters 3, 4, 5, 6 and 8 .					
BO105.4.2	Alterations		No	NO	
BO105.4.2 Increased design loads. Where an <i>alteration</i> causes an increase in loads as described in this section, the existing structural components that support the increased load, including the foundation, shall be shown to comply or shall be altered to comply with the applicable provisions of Chapters 3, 4, 5, 6 and 8 . Existing structural components that do not provide support for the increased loads shall not be required to comply with this section.					
BO105.4.2.1	Alterations		No	NO	
BO105.4.2.1 Dead load increase. <i>Dead load</i> shall be considered to be increased for purposes of this section when the weight of materials used for the <i>alteration</i> exceeds the weight of the materials replaced, or when new materials or elements are added. Exceptions: <i>Buildings</i> in which the increase in <i>dead load</i> is due entirely to the <i>addition</i> of a second layer of <i>roof covering</i> weighing 3 pounds per square foot (psf) (0.1437 kN/m²) or less over an existing single layer of <i>roof covering</i>. - Installation of rooftop-mounted photovoltaic (<i>PV</i>) panel systems weighing 4 psf (0.1915 kN/m²) or less over an existing single layer of <i>roof covering</i>. These exceptions shall not be applied simultaneously.					
BO105.4.2.2	Alterations		No	NO	
BO105.4.2.2 Live load increase. An increase in <i>live load</i> shall be determined based on Table R301.5 .					
BO105.4.2.3	Alterations		No	NO	
BO105.4.2.3 Snow load increase. Snow load shall be considered to be increased for purposes of this section when <i>alteration</i> of the roof configuration creates new areas that accumulate drifted snow.					
BO105.4.2.4	Alterations		No	NO	
BO105.4.2.4 Wind load increase. Wind load shall be considered to be increased for purposes of this section when the exposed surface area of any exterior elevation subject to wind pressure is increased by more than 5 percent.					

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
BO105.4.2.5	Alterations		No	NO	
BO105.4.2.5 Seismic load increase. Seismic load shall be considered to be increased for purposes of this section in existing buildings assigned to <i>Seismic Design Category C, D₀, D₁ or D₂</i> where new materials replace lighter-weight materials in one of the following conditions: 1. Concrete tile or tile <i>roof covering</i> of similar weight is installed on more than 50 percent of the total roof area. 2. Brick veneer or <i>cladding</i> of similar weight is installed on walls above the second story.					
BO105.4.3	Alterations		No	NO	
BO105.4.3 Unreinforced masonry parapets. Unreinforced masonry parapets located in <i>Seismic Design Category D2</i> shall have wall anchors installed at the roofline and additional bracing installed above the roofline whenever a <i>reroofing permit</i> is issued and work involves removal of roofing materials from more than 25 percent of the roof area. Such masonry bracing and wall anchors shall be of an <i>approved</i> design, unless an evaluation demonstrates compliance of the existing bracing and anchorage. Exception: Bracing above the roofline shall not be required where the maximum height of unbraced unreinforced masonry does not exceed a height-to-width ratio of 2.5. Height shall be measured from the top of the parapet down to the highest existing brace or anchor point attached to the structure.					
BO105.5.3.4	Alterations		No	NO	
BO105.5.3.4 Lighting outlets. Not less than one lighting outlet <i>controlled by a listed wall-mounted device</i> shall be provided in every bathroom, hallway, <i>stairway</i> , attached garage and detached garage with electric power to illuminate outdoor entrances and exits, and in utility rooms and <i>basements</i> where these spaces are used for storage or contain equipment requiring service. <i>The wall-mounted control device shall be located near an entrance to the room.</i>					
BO105.7	Alterations		No	NO	
BO105.7 Ceiling height. Where a <i>habitable attic</i> or <i>habitable space</i> is created in an existing building, ceiling heights shall be not less than 6 feet 8 inches (2032 mm). Bathrooms, toilet rooms and laundry rooms shall have a <i>ceiling height</i> of not less than 6 feet 4 inches (1930 mm). Exceptions: 1. For rooms with sloped ceilings, the required floor area of the room shall have a <i>ceiling height</i> of not less than 5 feet (1524 mm), and not less than 50 percent of the required floor area shall have a <i>ceiling height</i> of not less than 6 feet 8 inches (2134 mm). 2. At beams, girders, ducts or other obstructions, the ceiling height shall be not less than 6 feet 4 inches (1930 mm) from the finished floor.					
BO105.8.4	Alterations		No	NO	
BO105.8.4 Stair treads and risers. An existing <i>stairway</i> shall not be required to comply with <i>Section R318.7.5</i> where the existing space and construction does not allow a reduction in pitch or slope. Where <i>risers</i> are added to an existing <i>stair</i> , the tread and riser dimension of the added <i>risers</i> shall match the existing <i>stair</i> .					

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
BO105.8.5	Alterations		No	NO	
BO105.8.5 Stairway illumination. <i>Stairways</i> within the work area shall be provided with illumination in accordance with Section R325.7 .					
BO105.8.6	Alterations		No	NO	
BO105.8.6 Handrails and guards. If a stair or any portion of a <i>stair</i> is altered, a <i>handrail</i> and <i>guard</i> , where required, shall be provided in accordance with Sections R318 and R320 .					
Bo106.1	Addition		No	NO	
BO106.1 General. Where existing buildings with the <i>addition</i> are within the scope of this code, <i>additions</i> shall comply with this section and other applicable provisions of this code for new construction or as permitted by this appendix. Engineered design in accordance with Section R301.1.3 shall be permitted to meet the requirements of this section.					
BO106.2	Addition		No	NO	
BO106.2 Structure for horizontal additions. Where an <i>addition</i> involves new construction attached to an existing building, the new construction shall meet all of the structural requirements of this code for new construction. <i>Alterations</i> to the existing building shall comply with the requirements governing <i>alterations</i> within this code. In wood light-frame <i>additions</i> , connection of the structural components shall be permitted to be provided using wall top plates and <i>addition</i> studs that abut the existing building. Wall top plates shall be lapped and spliced in accordance with Section R602.3.2 . Abutting studs shall be fastened in accordance with Table R602.3(1) . Exception: The <i>addition</i> structure shall be permitted to be connected to the existing building in accordance with accepted engineering practice.					
BO106.3	Addition		No	NO	
BO106.3 Structure for vertical additions. Where an <i>addition</i> involves new construction that adds a <i>story</i> to any part of the existing building or vertically increases the height of any part of the existing building, the new construction and the existing building together shall be shown to comply with, or altered to comply with, all of the structural requirements of this code for new construction. Exception: Where the new structure and the existing structure together are evaluated in accordance with accepted engineering practice and are shown to be sufficient to support the combined loads from the new structure and existing structure, no structural <i>alterations</i> are required.					

2024 Code Section	TITLE OR SUBJECT		Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation												
BO107.1	Relocated Buildings			No	NO													
BO107.1 General. Residential buildings or structures moved into or within the <i>jurisdiction</i> are not required to comply with the requirements for new construction under this code, provided they comply with all of the following conditions: 1.The <i>building</i> shall be safe for human occupancy as determined by the <i>International Fire Code</i> and the <i>International Property Maintenance Code</i> . 2.Any <i>repair, alteration</i> or change of use undertaken within the relocated structure shall comply with the requirements of this code applicable to the work being performed. 3.Any field fabricated elements shall comply with the applicable requirements of this code.																		
T BO108.1	Referenced Standards			No	NO													
TABLE BO108.1 REFERENCED STANDARDS																		
<table><tr><th>STANDARD ACRONYM</th><th>STANDARD NAME</th><th>SECTION HEREIN REFERENCED</th></tr><tr><td>IEBC—24</td><td><i>International Existing Building Code</i>®</td><td>BO102.8</td></tr><tr><td>IFC—24</td><td><i>International Fire Code</i>®</td><td>BO107.1</td></tr><tr><td>IPMC—24</td><td><i>International Property Maintenance Code</i>®</td><td>BO107.1</td></tr></table>							STANDARD ACRONYM	STANDARD NAME	SECTION HEREIN REFERENCED	IEBC—24	<i>International Existing Building Code</i> ®	BO102.8	IFC—24	<i>International Fire Code</i> ®	BO107.1	IPMC—24	<i>International Property Maintenance Code</i> ®	BO107.1
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APPENDIX CA SIZING AND CAPACITIES OF GAS PIPING																		
This Appendix Not Adopted No Significant Changes																		
APPENDIX CB SIZING OF VENTING SYSTEMS SERVING APPLIANCES EQUIPPED WITH DRAFT HOODS, CATEGORY I APPLIANCES AND APPLIANCES LISTED FOR USE WITH TYPE B VENTS																		
This Appendix Not Adopted No Significant Changes																		
APPENDIX CC RECOMMENDED PROCEDURE FOR SAFETY INSPECTION OF AN EXISTING APPLIANCE INSTALLATION																		
This Appendix Not Adopted No Significant Changes																		
APPENDIX CD PIPING STANDARDS FOR VARIOUS APPLICATIONS																		
This Appendix Not Adopted No Significant Changes																		
APPENDIX CE VENTING METHODS																		
This Appendix Not Adopted No Significant Changes																		
APPENDIX CF SIZING OF WATER PIPING SYSTEM																		
This Appendix Not Adopted No Significant Changes																		

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
APPENDIX CG NONSEWERED SANITATION SYSTEMS					
New Appendix This Appendix Not Adopted					
CG101.1	General		No	NO	
CG101.1 Applicability. The provisions of this chapter shall apply to the installation of nonsewered sanitation systems.					
CG101.2	General		No	NO	
CG101.2 System requirements. Nonsewered sanitation systems shall comply with ANSI/CAN/IAPMO/ISO CG106.1 .					
CG102.1	Definitions		No	NO	
CG102.1 General. For purposes of this chapter, the following definitions shall apply: CONDITIONED SPACE. An area, room or space normally occupied and being heated or cooled for human habitation by any equipment. NONSEWERED SANITATION SYSTEM. A prefabricated integrated sewage treatment unit that is not connected to a public sewer or private sewage disposal system.					
CG103.1	Installation		No	NO	
CG103.1 General. The installation of nonsewered sanitation systems shall be in accordance with the manufacturer's installation instructions and with Sections CG103.2 through CG103.7 .					
CG103.2	Installation		No	NO	
CG103.2 Operating conditions. A nonsewered sanitation system in either a conditioned or unconditioned space shall be installed where the ambient temperature, ambient humidity and altitude (<i>atmospheric pressure</i>) are in accordance with the manufacturer's installation instructions or product listing.					
CG103.3	Installation		No	NO	
CG103.3 Clearances for servicing and maintenance. A nonsewered sanitation system shall be located to permit access and sufficient clearance for service and maintenance. Unless otherwise specified by the manufacturer's installation instructions, not less than 30 inches (762 mm) in depth, width and height of working space shall be provided at any access panel.					
CG103.4	Installation		No	NO	
CG103.4 Backflow prevention. A domestic water supply connection to a nonsewered sanitation system shall be protected in accordance with Section P2902 .					

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation						
CG103.5	Installation		No	NO							
CG103.5 Effluent storage. Any container or vessel for the storage of effluent discharged from a nonsewered sanitation system and not integral to such system shall be installed in accordance with Section P2910.9 .											
CG103.6	Installation		No	NO							
CG103.6 Systems employing combustion. A nonsewered sanitation system employing combustion shall comply with the International Mechanical Code .											
CG103.7	Installation		No	NO							
CG103.7 Connection to plumbing system not required. A nonsewered sanitation system is not required to be connected to the sanitary drainage system of the <i>building</i> or premises.											
CG104.1	Manual required		No	NO							
CG104.1 Operation and maintenance manual. Nonsewered sanitation systems shall have an operation and maintenance manual provided by the manufacturer.											
CG105.1	System output		No	NO							
CG105.1 General. The use or disposal of all substances exiting the nonsewered sanitation system shall be determined by the authority having jurisdiction.											
CG106.1	Referenced Standards		No	NO							
CG106.1 General. See Table CG106.1 for standards that are referenced in various sections of this appendix. Standards are listed by the standard identification with the effective date, the standard title and the section or sections of this appendix that reference the standard. TABLE CG106.1REFERENCE STANDARDS											
<table><tr><th>STANDARD ACRONYM</th><th>STANDARD NAME</th><th>SECTIONS HEREIN REFERENCED</th></tr><tr><td>ANSI/CAN/IAQMO/ISO 30500 —2019</td><td>Non-sewered sanitation systems — Prefabricated integrated treatment units — General safety and performance requirements for design and testing</td><td>CG101.2</td></tr></table>						STANDARD ACRONYM	STANDARD NAME	SECTIONS HEREIN REFERENCED	ANSI/CAN/IAQMO/ISO 30500 —2019	Non-sewered sanitation systems — Prefabricated integrated treatment units — General safety and performance requirements for design and testing	CG101.2
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APPENDIX CH PRIVATE SEWAGE DISPOSAL											
This Appendix Not Adopted No Significant Changes											
APPENDIX NA RESERVED											
Appendix Reserved											
APPENDIX NB SOLAR-READY PROVISIONS-DETACHED ONE- AND TWO-FAMILY DWELLINGS AND TOWNHOUSES											
Entire Appendix Moved from AT to NB. No technical language changes. See also, Existing Amendments Report											

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
APPENDIX NC ZERO NET ENERGY RESIDENTIAL BUILDING PROVISIONS					
This Appendix Not Adopted					
NC101.2	Compliance		No	NO	
NC101.2 (RC101.2)Application. <i>Residential buildings shall comply with Section N1106.</i> Exception: <i>Additions, alterations, repairs and changes of occupancy to existing buildings complying with Sections N1110 through N1113.</i>					
NC102	General Definitions		No	NO	
COMMUNITY RENEWABLE ENERGY FACILITY (CREF). A facility that produces energy from <i>renewable energy resources</i> and that is qualified as a community energy facility under applicable jurisdictional statutes and rules. FINANCIAL RENEWABLE ENERGY POWER PURCHASE AGREEMENT (FPPA). A financial arrangement between a renewable electricity generator and a purchaser wherein the purchaser pays or guarantees a price to the generator for the project’s renewable generation. Also known as a financial power purchase agreement and virtual power purchase agreement. PHYSICAL RENEWABLE ENERGY POWER PURCHASE AGREEMENT (PPPA). A contract for the purchase of renewable electricity from a specific renewable electricity generator by a purchaser of renewable electricity.					
NC103.2	Building Thermal Envelope		No	NO	
NC103.2 (RC103.2)ERI compliance. Compliance based on the ERI requires that the <i>rated design</i> meets one of the following: 1.The requirements of the sections indicated in Table N1106.2 and Sections N1106.3 through N1106.7. 2.The requirements of ASHRAE/IES 90.2, including: 2.1.The ERI requirements of ASHRAE/IES 90.2 Table 6-1 without the use of on-site power production (OPP). 2.2.The requirements of Sections N1102.5.1.1, N1102.5.1.2, and N1106.3. 2.3.The maximum ERI including adjusted OPP of Table NC103.5 determined in accordance with Section NC103.4.					

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
NC103.4	Building Thermal Envelope		No	NO	
NC103.4 (RC103.4)Energy Rating Index. The <i>Energy Rating Index</i> (ERI) not including <i>renewable energy resources</i> shall be determined in accordance with ANSI/RESNET/ICC 301. The <i>ERI</i> including <i>renewable energy resources</i> shall be determined in accordance with ANSI/RESNET/ICC 301, except where electrical energy is provided from a <i>community renewable energy facility</i> (CREF) or contracted from a physical or <i>financial renewable energy power purchase agreement</i> that meets requirements of Section NC103.4.1, on-site power production (OPP) shall be adjusted in accordance with Equation NC-1. Adjusted OPP = $OPP_{kWh} + CREF_{kWh} + PPPA_{kWh} + FPPA_{kWh}$ Equation NC-1 where: OPP_{kWh} = Annual electrical energy from <i>on-site renewable energy</i>, in units of kilowatt-hours (kWh). $CREF_{kWh}$ = Annual electrical energy from a community renewable energy facility (CREF), in units of kilowatt-hours (kWh). $PPPA_{kWh}$ = Where not included as OPP, the annual electrical energy contracted from a physical renewable energy power purchase agreement, in units of kilowatt-hours (kWh). $FPPA_{kWh}$ = Where not included as OPP, the annual electrical energy contracted from a financial renewable energy power purchase agreement (FPPA), in units of kilowatt-hours (kWh).					
NC103.4.1	Building Thermal Envelope		No	NO	
NC103.4.1 (RC103.4.1)Renewable energy contract. The renewable energy shall be delivered or credited to the <i>building site</i> under an energy contract with a duration of not less than 15 years. The contract shall be structured to survive a partial or full transfer of ownership of the building property.					

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation																														
NC103.5	Building Thermal Envelope		No	NO																															
NC103.5 (RC103.5)ERI-based compliance. Compliance based on an <i>ERI</i> analysis requires that the <i>rated design</i> and confirmed built <i>dwelling</i> be shown to have an <i>ERI</i> less than or equal to both values indicated in Table NC103.5 when compared to the <i>ERI</i> reference design.																																			
T NC103.5	Building Thermal Envelope		No	NO																															
TABLE NC103.5 (RC103.5) MAXIMUM ENERGY RATING INDEX <table><tr><th>CLIMATE ZONE</th><th>ENERGY RATING INDEX NOT INCLUDING RENEWABLE ENERGY</th><th>ENERGY RATING INDEX INCLUDING ADJUSTED OPP</th></tr><tr><td>0</td><td>42</td><td>0</td></tr><tr><td>1</td><td>42</td><td>0</td></tr><tr><td>2</td><td>42</td><td>0</td></tr><tr><td>3</td><td>42</td><td>0</td></tr><tr><td>4</td><td>42</td><td>0</td></tr><tr><td>5</td><td>42</td><td>0</td></tr><tr><td>6</td><td>42</td><td>0</td></tr><tr><td>7</td><td>42</td><td>0</td></tr><tr><td>8</td><td>42</td><td>0</td></tr></table>						CLIMATE ZONE	ENERGY RATING INDEX NOT INCLUDING RENEWABLE ENERGY	ENERGY RATING INDEX INCLUDING ADJUSTED OPP	0	42	0	1	42	0	2	42	0	3	42	0	4	42	0	5	42	0	6	42	0	7	42	0	8	42	0
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NC104.1	Referenced Standards		No	NO																															
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STANDARD ACRONYM	STANDARD NAME	SECTIONS HEREIN REFERENCED																																	
ASHRAE/IES 90.2— 2018	<i>Energy-Efficient Design of Low-Rise Residential Buildings, Including approved addenda [Addenda A (approved Jan 2021), B (June 2021) and D (February 2022)]</i>	NC103.2																																	

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
APPENDIX ND ELECTRIC ENERGY STORAGE PROVISIONS					
New Appendix This Appendix Not Adopted					
ND101.1	Scope		No	NO	
ND101.1 (RD101.1)General. These provisions shall be applicable for new construction where solar-ready measures or an on-site solar <i>PV</i> system are required.					
ND102	General Definition		No	NO	
ENERGY STORAGE SYSTEM (ESS). One or more devices, assembled together, capable of storing energy in order to supply electrical energy at a future time.					
ND103.1	Electrical Energy Storage		No	NO	
ND103.1 (RD103.1)Electrical energy storage. One- and two-family <i>dwelling</i> s, <i>townhouse units</i> and Group R-3 occupancies shall comply with either Section ND103.2 or ND103.3 . <i>Buildings</i> with Group R-2 and R-4 occupancies shall comply with Section ND103.4 .					
ND103.2	Electrical Energy Storage		No	NO	
ND103.2 (RD103.2)Electrical energy storage energy capacity. Each <i>building</i> shall have an <i>ESS</i> with a rated energy capacity of not less than 5 kWh with not fewer than four <i>ESS</i> -supplied branch circuits.					
ND103.3	Electrical Energy Storage		No	NO	
ND103.3 (RD103.3)Electrical energy storage system readiness. Each <i>building</i> shall be energy-storage ready in accordance with Sections ND103.3.1 through ND103.4 .					
ND103.3.1	Electrical Energy Storage		No	NO	
ND103.3.1 (RD103.3.1)Energy storage system space. Interior or exterior space with dimensions and locations in accordance with Section R330 of this code and Section 110.26 of NFPA 70 shall be reserved to allow for the future installation of an <i>ESS</i> .					
ND103.3.2	Electrical Energy Storage		No	NO	
ND103.3.2 (RD103.3.2)System isolation equipment space. Space shall be reserved to allow for the future installation of a transfer switch within 3 feet (305 mm) of the main panelboard. Raceways shall be installed between the panelboard and the transfer switch location to allow the connection of an <i>ESS</i> .					
ND103.3.3	Electrical Energy Storage		No	NO	
ND103.3.3 (RD103.3.3)Panelboard with backed-up load circuits. A dedicated raceway shall be provided from the main service to a panelboard that supplies the branch circuits served by the <i>ESS</i> . All branch circuits are permitted to be supplied by the main service panel prior to the installation of an <i>ESS</i> . The trade size of the raceway shall be not less than 1 inch (25 mm). The panelboard that supplies the branch circuits shall be labeled, “Subpanel reserved for future battery energy storage system to supply essential loads.”					

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
ND103.3.4	Electrical Energy Storage		No	NO	
ND103.3.4 (RD103.3.4)Branch circuits served by the ESS. Not fewer than four branch circuits shall be identified and have their source of supply collocated at a single panelboard supplied by the ESS. The following end uses shall be served by the branch circuits: 1.A refrigerator. 2.One lighting circuit near the primary egress. 3.A sleeping room receptacle outlet.					
ND103.4	Electrical Energy Storage		No	NO	
ND103.4 (RD103.4)Electrical energy storage system. <i>Buildings with Group R-2 and R-4 occupancies shall comply with Appendix CJ of the <i>International Energy Conservation Code</i>.</i>					
APPENDIX NE ELECTRIC VEHICLE CHARGING INFRASTRUCTURE					
New Appendix This Appendix Not Adopted					
NE101.1	Electric Vehicle Power Transfer		No	NO	
NE101.1 (RE101.1)Definitions. AUTOMOBILE PARKING SPACE. A space within a building or private or public parking lot, exclusive of driveways, ramps, columns, office and work areas, for the parking of an automobile. ELECTRIC VEHICLE (EV). An automotive-type vehicle for on-road use, such as passenger automobiles, buses, trucks, vans, neighborhood electric vehicles and electric motorcycles, primarily powered by an electric motor that draws current from a building electrical service, electric vehicle supply equipment (EVSE), a rechargeable storage battery, a fuel cell, a photovoltaic array or another source of electric current. ELECTRIC VEHICLE CAPABLE SPACE (EV CAPABLE SPACE). A designated automobile parking space that is provided with electrical infrastructure such as, but not limited to, raceways, cables, electrical capacity, a panelboard or other electrical distribution equipment space necessary for the future installation of an EVSE. ELECTRIC VEHICLE READY SPACE (EV READY SPACE). An automobile parking space that is provided with a branch circuit and an outlet, junction box or receptacle that will support an installed EVSE. ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE). Equipment for plug-in power transfer, including ungrounded, grounded and equipment grounding conductors; electric vehicle connectors; attached plugs; any personal protection system; and all other fittings, devices, power outlets or apparatus installed specifically for the purpose of transferring energy between the premises wiring and the electric vehicle. ELECTRIC VEHICLE SUPPLY EQUIPMENT INSTALLED SPACE (EVSE SPACE). An automobile parking space that is provided with a dedicated EVSE connection.					

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
NE101.2	Electric Vehicle Power Transfer		No	NO	
NE101.2 (RE101.2)Electric vehicle power transfer infrastructure. New residential automobile parking spaces for residential buildings shall be provided with electric vehicle power transfer infrastructure in accordance with Sections NE101.2.1 through NE101.2.5 .					
NE101.2.1	Electric Vehicle Power Transfer		No	NO	
NE101.2.1 (RE101.2.1)Quantity. New one- and two-family <i>dwelling</i> s and <i>townhouses</i> with a designated attached or detached garage or other on-site private parking provided adjacent to the <i>dwelling unit</i> shall be provided with one EV capable, EV ready or <i>EVSE</i> space per <i>dwelling unit</i> . Exceptions: 1.Where the local electric distribution entity certifies in writing that it is not able to provide 100 percent of the necessary distribution capacity within 2 years after the estimated certificate of occupancy date, the required EV charging infrastructure shall be reduced based on the available existing electric distribution capacity. 2.Where substantiation is <i>approved</i> that meeting the requirements of Section NE101.2.5 will alter the local utility infrastructure design requirements on the utility side of the meter so as to increase the utility side cost to the builder or developer by more than \$450 per <i>dwelling unit</i>.					
NE101.2.2	Electric Vehicle Power Transfer		No	NO	
NE101.2.2 (RE101.2.2)EV capable spaces. Each EV capable space used to meet the requirements of Section NE101.2.1 shall comply with all of the following: 1.A continuous raceway or cable assembly shall be installed between a suitable panelboard or other on-site electrical distribution equipment and an enclosure or outlet located within 6 feet (1828 mm) of the <i>EV capable space</i>. 2.The installed raceway or cable assembly shall be sized and rated to supply a minimum circuit capacity in accordance with Section NE101.2.5. 3.The electrical distribution equipment to which the raceway or cable assembly connects shall have sufficient dedicated space and spare electrical capacity for a two-pole circuit breaker or set of fuses. 4.The electrical enclosure or outlet and the electrical distribution equipment directory shall be marked: “For future electric vehicle supply equipment (<i>EVSE</i>).”					
NE101.2.3	Electric Vehicle Power Transfer		No	NO	
NE101.2.3 (RE101.2.3)EV ready spaces. Each branch circuit serving EV ready spaces shall comply with all of the following: 1.Termination at an outlet or enclosure located within 6 feet (1828 mm) of each EV ready space it serves and marked “For electric vehicle supply equipment (<i>EVSE</i>).” 2.Service by an electrical distribution system and circuit capacity in accordance with Section NE101.2.5. 3.Designation on the panelboard or other electrical distribution equipment directory as “For electric vehicle supply equipment (<i>EVSE</i>).”					

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
NE101.2..4	Electric Vehicle Power Transfer		No	NO	
NE101.2.4 (RE101.2.4)EVSE spaces. An installed EVSE with multiple output connections shall be permitted to serve multiple <i>EVSE</i> spaces. Each <i>EVSE</i> serving either a single <i>EVSE</i> space or multiple <i>EVSE</i> spaces shall comply with the following: 1.Be served by an electrical distribution system in accordance with Section NE101.2.5. 2.Have a nameplate charging capacity of not less than 6.2 kVA (or 30A at 208/240V) per <i>EVSE</i> space served. Where an <i>EVSE</i> serves three or more <i>EVSE</i> spaces and is controlled by an energy management system in accordance with Section NE101.2.5, the nameplate charging capacity shall be not less than 2.1 kVA per <i>EVSE</i> space served. 3.Be located within 6 feet (1828 mm) of each <i>EVSE</i> space it serves. 4.Be installed in accordance with NFPA 70 and be <i>listed</i> and <i>labeled</i>in accordance with UL 2202 or UL 2594.					
NE101.2.5	Electric Vehicle Power Transfer		No	NO	
NE101.2.5 (RE101.2.5)Electrical distribution system capacity. The branch circuits and electrical distribution system serving each EV capable space, EV ready space and EVSE space used to comply with Section NE101.2.1 shall comply with one the following: 1.Sized for a calculated EV charging load of not less than 6.2 kVA per <i>EVSE</i>, <i>EV ready</i> or <i>EV capable space</i>. Where a circuit is shared or managed, it shall be in accordance with NFPA 70. 2.The capacity of the electrical distribution system and each branch circuit serving multiple EVSE spaces, EV ready spaces or EV capable spaces designed to be controlled by an energy management system in accordance with NFPA 70 shall be sized for a calculated EV charging load of not less than 2.1 kVA per space. Where an energy management system is used to control EV charging loads for the purposes of this section, it shall not be configured to turn off electrical power to EVSE or EV ready spaces used to comply with Section NE101.2.1.					
APPENDIX NF ALTERNATIVE BUILDING THERMAL ENVELOPE INSULATION R-VALUE OPTIONS					
New Appendix This Appendix Not Adopted					
NF101.1	General		No	NO	
NF101.1 (RF101.1)General. This appendix shall be used as a basis to determine alternative building assembly and insulation component <i>R-value</i> solutions that comply with the maximum <i>U</i>-factors and <i>F</i>-factors in Table N1102.1.2. Alternative building assembly insulation solutions determined in accordance with this appendix also shall comply with the requirements of Section R702.7.					

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
NF 102.1	Above-Grade Wall Assemblies		No	NO	
NF102.1 (RF102.1)Wood-framed walls. Wood-framed <i>above-grade wall</i> assemblies shall comply with both the <i>cavity insulation</i> and <i>continuous insulation R-values</i> and framing conditions specified by Table NF102.1 where the tabulated <i>U</i>-factors are less than or equal to those needed for compliance with Section N1102.1.2. For assemblies not addressed by the conditions of Table NF102.1, <i>U</i>-factors shall be determined by using accepted engineering practice or by testing in accordance with ASTM C1363 and shall be subject to approval by the <i>code official</i> in accordance with Section R401.1. Use of a lesser framing fraction than the indicated maximums in Table NF102.1 shall require wall framing layout details on <i>approved construction documents</i> for each <i>above-grade wall</i> elevation and shall be inspected for compliance.					

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
T NF102.1	Above-Grade Wall Assemblies		No	NO	

TABLE NF102.1 (RF102.1) ASSEMBLY U-FACTORS FOR WOOD-FRAMED WALLS^{a, b, c, d, e, f}

WOOD STUD SIZE AND SPACING	CAVITY INSULATION INSTALLED R-VALUE	CONTINUOUS INSULATION R-VALUE																	
		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	20	25	30
2 × 4 (12 inches o.c.)	0	0.324	0.239	0.190	0.158	0.136	0.119	0.106	0.096	0.087	0.080	0.074	0.069	0.064	0.060	0.05	0.042	0.035	0.030
	11	0.094	0.085	0.078	0.072	0.067	0.062	0.059	0.055	0.052	0.050	0.047	0.045	0.043	0.041	0.04	0.032	0.027	0.024
	12	0.090	0.082	0.075	0.069	0.064	0.060	0.057	0.054	0.051	0.048	0.046	0.044	0.042	0.040	0.039	0.031	0.027	0.024
	13	0.087	0.079	0.072	0.067	0.063	0.059	0.055	0.052	0.049	0.047	0.045	0.043	0.041	0.039	0.03	0.031	0.027	0.023
	14	0.084	0.076	0.070	0.065	0.061	0.057	0.054	0.051	0.048	0.046	0.044	0.042	0.040	0.038	0.03	0.030	0.026	0.023
	15	0.082	0.074	0.068	0.063	0.059	0.055	0.052	0.049	0.047	0.045	0.043	0.041	0.039	0.038	0.03	0.030	0.026	0.023
	16	0.079	0.072	0.066	0.062	0.058	0.054	0.051	0.048	0.046	0.044	0.042	0.040	0.038	0.037	0.03	0.029	0.025	0.022
	17	0.077	0.070	0.065	0.060	0.056	0.053	0.050	0.047	0.045	0.043	0.041	0.039	0.038	0.036	0.03	0.029	0.025	0.022
	18	0.075	0.069	0.063	0.059	0.055	0.052	0.049	0.046	0.044	0.042	0.040	0.038	0.037	0.036	0.03	0.028	0.025	0.022
	19	0.074	0.067	0.062	0.058	0.054	0.051	0.048	0.045	0.043	0.041	0.039	0.038	0.036	0.035	0.03	0.028	0.024	0.022
2 × 6 (12 inches o.c.)	20	0.072	0.066	0.061	0.056	0.053	0.050	0.047	0.044	0.042	0.040	0.039	0.037	0.036	0.034	0.03	0.027	0.024	0.021
	0	0.0313	0.230	0.183	0.153	0.131	0.115	0.102	0.093	0.084	0.078	0.072	0.067	0.063	0.059	0.05	0.041	0.034	0.029
	18	0.065	0.060	0.056	0.053	0.050	0.048	0.045	0.043	0.041	0.040	0.038	0.037	0.035	0.034	0.03	0.027	0.024	0.021
	19	0.063	0.059	0.055	0.052	0.049	0.047	0.044	0.042	0.040	0.039	0.037	0.036	0.035	0.033	0.03	0.027	0.024	0.021
	20	0.062	0.057	0.054	0.051	0.048	0.046	0.043	0.041	0.040	0.038	0.037	0.035	0.034	0.033	0.03	0.026	0.023	0.021
	21	0.060	0.056	0.053	0.050	0.047	0.045	0.043	0.041	0.039	0.037	0.036	0.035	0.033	0.032	0.03	0.026	0.023	0.020
	22	0.059	0.055	0.052	0.049	0.046	0.044	0.042	0.040	0.038	0.037	0.035	0.034	0.033	0.032	0.03	0.026	0.023	0.020
	23	0.058	0.054	0.051	0.048	0.045	0.043	0.041	0.039	0.038	0.036	0.035	0.033	0.032	0.031	0.03	0.025	0.022	0.020
	24	0.057	0.053	0.050	0.047	0.044	0.042	0.040	0.039	0.037	0.035	0.034	0.033	0.032	0.031	0.03	0.025	0.022	0.020
	25	0.056	0.052	0.049	0.046	0.044	0.042	0.040	0.038	0.036	0.035	0.034	0.032	0.031	0.030	0.02	0.025	0.022	0.020
2 × 8 (12 inches o.c.)	30	0.052	0.048	0.045	0.043	0.041	0.039	0.037	0.035	0.034	0.033	0.031	0.030	0.029	0.028	0.02	0.023	0.021	0.019
	35	0.049	0.046	0.043	0.040	0.038	0.036	0.035	0.033	0.032	0.031	0.030	0.029	0.028	0.027	0.02	0.022	0.020	0.018
	0	0.308	0.226	0.179	0.149	0.128	0.112	0.100	0.091	0.083	0.076	0.070	0.066	0.061	0.058	0.05	0.041	0.034	0.029
	20	0.056	0.053	0.050	0.047	0.045	0.043	0.041	0.039	0.038	0.036	0.035	0.034	0.033	0.032	0.03	0.026	0.023	0.020
	21	0.055	0.052	0.049	0.046	0.044	0.042	0.040	0.039	0.037	0.036	0.034	0.033	0.032	0.031	0.03	0.025	0.022	0.020
	22	0.053	0.050	0.048	0.045	0.043	0.041	0.039	0.038	0.036	0.035	0.034	0.033	0.032	0.031	0.03	0.025	0.022	0.020
	23	0.052	0.049	0.047	0.044	0.042	0.040	0.039	0.037	0.036	0.034	0.033	0.032	0.031	0.030	0.02	0.025	0.022	0.020
	24	0.051	0.048	0.046	0.044	0.042	0.040	0.038	0.037	0.035	0.034	0.033	0.032	0.031	0.030	0.02	0.024	0.022	0.019
	25	0.050	0.047	0.045	0.043	0.041	0.039	0.037	0.036	0.035	0.033	0.032	0.031	0.030	0.029	0.02	0.024	0.021	0.019
	30	0.045	0.044	0.041	0.039	0.038	0.036	0.035	0.033	0.032	0.031	0.030	0.029	0.028	0.027	0.02	0.023	0.020	0.018
2 × 4 (16 inches o.c.)	35	0.043	0.041	0.039	0.037	0.035	0.034	0.032	0.031	0.030	0.029	0.028	0.027	0.026	0.025	0.02	0.021	0.019	0.017
	40	0.041	0.039	0.037	0.035	0.033	0.032	0.031	0.030	0.029	0.028	0.027	0.026	0.025	0.024	0.02	0.020	0.018	0.017
	0	0.331	0.243	0.193	0.161	0.138	0.120	0.107	0.097	0.088	0.081	0.075	0.069	0.065	0.061	0.05	0.043	0.035	0.030
	11	0.092	0.083	0.076	0.071	0.066	0.061	0.058	0.054	0.052	0.049	0.047	0.045	0.043	0.041	0.039	0.032	0.027	0.024
	12	0.088	0.080	0.073	0.068	0.063	0.059	0.056	0.053	0.050	0.048	0.045	0.043	0.041	0.040	0.039	0.031	0.027	0.024
	13	0.084	0.077	0.071	0.066	0.061	0.057	0.054	0.051	0.049	0.046	0.044	0.042	0.040	0.039	0.03	0.030	0.026	0.023
	14	0.081	0.074	0.068	0.064	0.059	0.056	0.053	0.050	0.047	0.045	0.043	0.041	0.039	0.038	0.03	0.030	0.026	0.023
	15	0.079	0.072	0.066	0.062	0.058	0.054	0.051	0.049	0.046	0.044	0.042	0.040	0.039	0.037	0.039	0.029	0.025	0.023
	16	0.077	0.070	0.065	0.060	0.056	0.053	0.050	0.047	0.045	0.043	0.041	0.039	0.038	0.036	0.039	0.029	0.025	0.022
	17	0.075	0.068	0.063	0.058	0.055	0.052	0.049	0.046	0.044	0.042	0.040	0.039	0.037	0.036	0.03	0.028	0.025	0.022
	18	0.073	0.066	0.061	0.057	0.053	0.050	0.048	0.045	0.043	0.041	0.039	0.038	0.036	0.035	0.03	0.028	0.024	0.022
	19	0.071	0.065	0.060	0.056	0.052	0.049	0.047	0.044	0.042	0.040	0.039	0.037	0.036	0.034	0.03	0.027	0.024	0.021
	20	0.069	0.063	0.059	0.055	0.051	0.048	0.046	0.043	0.041	0.039	0.038	0.036	0.035	0.034	0.03	0.027	0.024	0.021

2024 Code Section																	TITLE OR SUBJECT																	Reviewer Comments																	Cost Yes/No		Amendment Needed Yes/No		TAG Comments/ Recommendation	
2 × 6 (24 o.c.)	0	0.330	0.241	0.191	0.159	0.136	0.119	0.106	0.095	0.087	0.080	0.074	0.068	0.064	0.060	0.05	0.042	0.035	0.030																																					
	18	0.061	0.057	0.054	0.051	0.048	0.046	0.044	0.042	0.040	0.038	0.037	0.036	0.034	0.033	0.03	0.027	0.024	0.021																																					
	19	0.060	0.056	0.052	0.050	0.047	0.045	0.043	0.041	0.039	0.037	0.036	0.035	0.034	0.032	0.03	0.026	0.023	0.021																																					
	20	0.058	0.054	0.051	0.048	0.046	0.044	0.042	0.040	0.038	0.037	0.035	0.034	0.033	0.032	0.03	0.026	0.023	0.020																																					
	21	0.057	0.053	0.050	0.047	0.045	0.043	0.041	0.039	0.037	0.036	0.035	0.033	0.032	0.031	0.03	0.025	0.022	0.020																																					
	22	0.055	0.052	0.049	0.046	0.044	0.042	0.040	0.038	0.037	0.035	0.034	0.033	0.032	0.031	0.03	0.025	0.022	0.020																																					
	23	0.054	0.051	0.048	0.045	0.043	0.041	0.039	0.037	0.036	0.035	0.033	0.032	0.031	0.030	0.02	0.025	0.022	0.020																																					
	24	0.053	0.049	0.047	0.044	0.042	0.040	0.038	0.037	0.035	0.034	0.033	0.032	0.031	0.030	0.02	0.024	0.022	0.019																																					
	25	0.052	0.048	0.046	0.043	0.041	0.039	0.038	0.036	0.035	0.033	0.032	0.031	0.030	0.029	0.02	0.024	0.021	0.019																																					
	30	0.047	0.044	0.042	0.040	0.038	0.036	0.035	0.033	0.032	0.031	0.030	0.029	0.028	0.027	0.02	0.022	0.020	0.018																																					
2 × 8 (24 o.c.)	0	0.326	0.238	0.188	0.156	0.133	0.117	0.104	0.094	0.085	0.078	0.072	0.067	0.063	0.059	0.05	0.042	0.034	0.029																																					
	20	0.054	0.051	0.048	0.046	0.043	0.042	0.040	0.038	0.037	0.035	0.034	0.033	0.032	0.031	0.03	0.025	0.022	0.020																																					
	21	0.052	0.049	0.047	0.044	0.042	0.041	0.039	0.037	0.036	0.035	0.033	0.032	0.031	0.030	0.02	0.025	0.022	0.020																																					
	22	0.051	0.048	0.046	0.043	0.041	0.040	0.038	0.037	0.035	0.034	0.033	0.032	0.031	0.030	0.02	0.024	0.022	0.020																																					
	23	0.050	0.047	0.044	0.042	0.041	0.039	0.037	0.036	0.034	0.033	0.032	0.031	0.030	0.029	0.02	0.024	0.021	0.019																																					
	24	0.048	0.046	0.044	0.041	0.040	0.038	0.036	0.035	0.034	0.033	0.032	0.031	0.030	0.029	0.02	0.024	0.021	0.019																																					
	25	0.047	0.045	0.043	0.041	0.039	0.037	0.036	0.034	0.033	0.032	0.031	0.030	0.029	0.028	0.02	0.023	0.021	0.019																																					
	30	0.043	0.041	0.039	0.037	0.035	0.034	0.033	0.032	0.030	0.029	0.028	0.027	0.026	0.02	0.022	0.020	0.018																																						
	35	0.040	0.038	0.036	0.034	0.033	0.032	0.030	0.029	0.028	0.027	0.027	0.026	0.025	0.024	0.02	0.021	0.018	0.017																																					
	40	0.037	0.035	0.034	0.032	0.031	0.030	0.029	0.028	0.027	0.026	0.025	0.024	0.024	0.023	0.02	0.019	0.018	0.016																																					
For St: 1 British thermal unit per hour per square foot per °Fahrenheit = 5.6783 W/m²× K.																																																								
a. Linear interpolation of U-factors shall be permitted between continuous insulation and cavity insulation R-values. For nonstandard stud spacing, use the next-lesser stud spacing shown in the table. b. Table values are based on the parallel path calculation procedure as applicable to wood-framed assemblies and require compliance with the following assembly conditions: - Framing fractions of not greater than 28 percent (assumed for 12-inch o.c. studs), 25 percent (assumed for 16-inch o.c. studs), and 22 percent (assumed for 24-inch o.c. studs) with 4 percent attributed to headers in all cases. The framing fraction is the percentage of overall opaque wall area occupied by framing members. - Wood framing materials or species with a thermal resistivity of not less than R-1.25 per inch. - Exterior sheathing with an R-value of not less than R-0.62 as based on wood structural panel. For walls having no exterior sheathing or sheathing of lesser R-value, Note d shall be used to adjust the tabulated U-factor. - Siding of not less than R-0.62 as based on the assumption of vinyl siding. For walls with siding having a lower R-value, Note d shall be used to adjust the tabulated U-factor. - Interior finish of not less than R-0.45 based on 1/2-inch gypsum. For walls having no interior finish or a finish of lesser R-value, Note d shall be used to adjust the tabulated U-factor. - Cavity insulation with a rated R-value installed as required by the manufacturer's installation instructions to satisfy the indicated installed R-value, considering a reduced R-value for compression in an enclosed cavity where applicable. - Continuous insulation specified in accordance with the indicated rated R-value and installed continuously over all exterior wood framing, including studs, plates, headers and rim joists. - Indoor air film R-value of 0.68 and outdoor air-film R-value of 0.17. c. Where any of the building materials that are continuous over the interior or exterior wall surface vary from those stated in Note b, it is permissible to adjust the U-factor as follows: $U_{adj} = 1 / [1/U + R_d]$ where U is the U-factor from the table and R_d is the increase (positive) or decrease (negative) in the cumulative R-value of building material layers on the outside and inside faces of the wall, excluding the continuous insulation R-value if present. d. For a specific continuous insulation R-value not addressed in this table, the U-factor of the assembly shall be permitted to be determined as follows: $U_{adj} = 1/[1/U_{nci} + R_{ci}]$ where U_{nci} is the U-factor from the table for no continuous insulation (0 R-value column) and R_{ci} is the specific rated R-value of continuous insulation added to the assembly. e. For double wall framing, the U-factor shall be permitted to be determined by combining the U-factors for single-wall framing from the table as follows: $U_{combined} = 1/[1/U_1 + 1/U_2]$ where U_1 and U_2 are the U-factors from the table for each of the adjacent parallel walls in the double-wall assembly. f. The use of insulation in accordance with this table does not supersede requirements in Section R702.2 for use of insulation and water vapor retarders to control water vapor.																																																								

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
NF105.1	Basement and Crawl Space Walls		No	NO	
NF105.1 (RF105.1)Basement and crawl space walls. <i>U</i>-factors for <i>basement</i> and <i>crawl space</i> walls shall be as specified in accordance with Table NF105.1. Effective <i>U</i>-factors for the proposed and reference foundation wall design must be used to demonstrate compliance with Section N1102.1.5. Effective <i>U</i>-factors shall not be used for other compliance methods referenced in Section N1101.13.1.					

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
T NF105.1	Basement and Crawl Space Walls		No	NO	

TABLE NF105.1 (RF105.1) U-FACTORS FOR BASEMENT AND CRAWL SPACE WALLS^a

INSULATION CONFIGURATION ^b	WALL U-FACTOR ^c (Btu/h × ft ² × °F)	WALL EFFECTIVE U-FACTOR ^d BY PERCENTAGE OF WALL HEIGHT PROJECTING ABOVE GRADE (Btu/h × ft ² × °F) FOR U BE ONLY WITH SECTION N1102.1.6			
—	—	50%	35%	20%	5%
Basement walls					
Uninsulated and unfinished basement wall	0.360	0.324	0.288	0.252	0.216
Continuous insulation	—	—	—	—	—
R-5ci	0.122	0.109	0.097	0.085	0.073
R-7.5ci	0.093	0.084	0.075	0.065	0.056
R-10ci	0.076	0.068	0.060	0.053	0.045
R-15ci	0.055	0.049	0.044	0.038	0.033
R-20ci	0.043	0.039	0.034	0.030	0.026
R-25ci	0.035	0.032	0.028	0.025	0.021
Cavity insulation	—	—	—	—	—
R-11	0.076	0.068	0.060	0.053	0.045
R-13	0.067	0.060	0.054	0.047	0.040
R-15	0.060	0.054	0.048	0.042	0.036
R-19	0.050	0.045	0.040	0.035	0.030
R-21	0.045	0.041	0.036	0.032	0.027
Cavity + continuous insulation	—	—	—	—	—
R-13 + R-5ci	0.050	0.045	0.040	0.035	0.030
R-13 + R-7.5ci	0.045	0.040	0.036	0.031	0.027
R-13 + R-10ci	0.040	0.036	0.032	0.028	0.024
R-19 + R-5ci	0.040	0.036	0.032	0.028	0.024
R-19 + R-7.5ci	0.036	0.033	0.029	0.025	0.022
R-19 + R-10ci	0.033	0.030	0.027	0.023	0.020
Crawl space walls					
Uninsulated crawl space wall	0.477	0.429	0.382	0.334	N/A
Continuous insulation	—	—	—	—	—
R-5ci	0.141	0.127	0.113	0.099	N/A
R-7.5ci	0.104	0.094	0.083	0.073	—
R-10ci	0.083	0.074	0.066	0.058	—
R-15ci	0.058	0.053	0.047	0.041	—
R-20ci	0.045	0.041	0.036	0.032	—
R-25ci	0.037	0.033	0.030	0.026	—
Cavity insulation	—	—	—	—	—
R-11	0.083	0.074	0.066	0.058	N/A
R-13	0.072	0.065	0.058	0.051	—
R-15	0.065	0.058	0.052	0.045	—
R-19	0.054	0.049	0.043	0.038	—
R-21	0.048	0.043	0.038	0.033	—
Cavity + continuous insulation	—	—	—	—	—
R-13 + R-5ci	0.053	0.048	0.043	0.037	N/A
R-13 + R-7.5ci	0.047	0.042	0.038	0.033	—
R-13 + R-10ci	0.042	0.038	0.034	0.029	—
R-19 + R-5ci	0.043	0.038	0.034	0.030	—
R-19 + R-7.5ci	0.039	0.035	0.031	0.027	—
R-19 + R-10ci	0.035	0.032	0.028	0.025	—

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
For St: 1 British thermal unit per hour per square foot per °Fahrenheit = 5.6783 W/m²× K. N/A = Not Applicable. a. The wall U-factor excludes exterior the air-film R-value and, for insulated assemblies, includes the following: R-0.68 for interior air film, R-0.45 for 1/2-inch gypsum panel finish (insulated basement walls only), and R-2.1 for 12-inch block basement wall or R-1.4 for 8-inch block crawl space wall, both with empty cells. Where cavity insulation is included between 2 × 4 or 2 × 6 framing on the interior side of a foundation wall, wood stud material with thermal resistivity of R-1.25/in is assumed to be spaced at not less than 16 inches on center with an assumed framing factor not greater than 0.15. b. All insulation configurations extend from the top of the foundation wall to the floor of the basement or crawl space. Extrapolation to partial-height insulation shall not be permitted; U-factors for such insulation configurations shall be determined by accepted engineering practice for modeling of thermal bridging and ground-coupled assemblies. c. Applicable to Sections N1102.1.2, N1105 and N1106. d. Effective U-factors are adjusted to account for ground-coupling effects to provide equivalency to U-factors used for above-grade building thermal envelope assemblies. The effective U-factors are provided for use with Section N1102.1.5 for evaluation of trade-offs with above-grade assemblies and other components of the building thermal envelope. The effective U-factor shall apply to the foundation wall area from the interior floor or ground surface to the top of the wall. Interpolation between R-values and percentage of wall height projecting above grade within a given insulation configuration type is permitted.					
NF106.1	Slabs-On-Grade		No	NO	
NF106.1 (RF106.1)Slabs-on-grade. <i>F</i>-factors for unheated and heated slabs-on-grade shall be as specified in Table NF106.1. All applicable adjustment factors in the table notes shall apply. <i>F</i>-factors for <i>basement</i> floor slabs and <i>crawl space</i> ground surfaces located below exterior <i>grade</i> shall be adjusted in accordance Note f as applicable.					

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
T NF106.1	Slabs-On-Grade		No	NO	

TABLE NF106.1 (RF106.1) F-FACTORS FOR SLABS-ON-GRADE^{a, b, c, d, e, f}

UNHEATED SLAB-ON-GRADE: INSULATION CONFIGURATION ^g	F-FACTOR (Btu/h × ft × °F)
Uninsulated slab	—
Horizontal insulation under slab at slab perimeter—slab edge not insulated	—
≥ R-5 for 2 ft	0.70
R-5 for 4 ft	0.67
≥ R-10 for 4 ft	0.64
Vertical insulation on exterior face ^h —slab edge insulated ^h	—
R-2.5 for 2 ft	0.66
R-5 for 2 ft	0.58
R-7.5 for 2 ft	0.56
R-10 for 2 ft	0.54
R-15 for 3 ft	0.52
R-5 for 3 ft	0.56
R-7.5 for 3 ft	0.54
R-10 for 3 ft	0.51
R-15 for 3 ft	0.49
R-5 for 4 ft	0.54
R-7.5 for 4 ft	0.51
R-10 for 4 ft	0.48
R-15 for 4 ft	0.45
Fully insulated slab—full slab area and slab edge continuously insulated	—
R-5 entire slab area and R-3.5 edge	0.48
R-5 entire slab area and edge	0.46
R-7.5 entire slab area and R-3.5 edge	0.45
R-7.5 entire slab area and edge	0.41
R-10 entire slab area and R-5 edge	0.40
R-10 entire slab area and edge	0.36
R-15 entire slab area and R-5 edge	0.35
R-15 entire slab area and edge	0.30
R-10 slab edge and under slab perimeter inward 4 ft; R-5 remaining slab area	0.42
R-15 slab edge and under slab perimeter inward 4 ft; R-5 remaining slab area	0.40
R-15 slab edge and under slab perimeter inward 4 ft; R-10 remaining slab area	0.34
HEATED SLAB-ON-GRADE: INSULATION CONFIGURATION ^g	F-FACTOR (Btu/h × ft × °F)
Uninsulated	1.35
Fully insulated slab—full slab area and slab edge continuously insulated	—
R-5 entire slab area and R-3.5 edge	0.77
R-5 entire slab area and edge	0.74
R-7.5 entire slab area and R-3.5 edge	0.71
R-7.5 entire slab area and edge	0.64
R-10 entire slab area and R-5 edge	0.62
R-10 entire slab area and edge	0.55
R-15 entire slab area and R-5 edge	0.54
R-15 entire slab area and edge	0.44
R-20 entire slab area and R-7.5 edge	0.44
R-20 entire slab area and edge	0.37
R-5 entire slab area and R-10 slab edge extending downward for minimum 3 ft	0.66
R-10 slab edge and under slab perimeter inward 4 ft; R-5 remaining slab area	0.66
R-15 slab edge and under slab perimeter inward 4 ft; R-5 remaining slab area	0.62
R-15 slab edge and under slab perimeter inward 4 ft; R-10 remaining slab area	0.51

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
	For SI: For SI: 1 British thermal unit per hour per square foot per °Fahrenheit = 5.6783 W/m²× K. a. For alternative slab-on-grade insulation configurations, <i>F</i>-factors shall be determined in accordance with accepted engineering practice for modeling three-dimensional ground-coupled building assemblies using project-specific building and site conditions to estimate annual energy use attributed to foundation heat transfer and converting the result to an equivalent air-to-air <i>F</i>-factor basis. b. Interpolation between <i>R</i>-values for a given insulation configuration type is permitted. c. Tabulated <i>F</i>-factors are based on a typical soil thermal conductivity of 0.75 Btu/h × ft × °F and shall be multiplied by one of the following adjustment factors as applicable to site soil conditions: (1) rock or any soil on sites with poor drainage or high water table, 1.2; (2) sandy soils, 1.1; (3) loam or clay soils on well-drained sites in dry climate zones, 0.85; and (4) for all other soil or site conditions, 1.00. Where soil conditions are unknown, use of 1.00 is permitted. d. Tabulated <i>F</i>-factors are based on a slab-area-to-perimeter-length ratio of 9:1 and shall be multiplied by one of the following adjustment factors as applicable to a slab's area-to-perimeter-length ratio: 5:1, 0.7; 6:1, 0.8; 7:1, 0.9; 8:1, 0.95; 9:1, 1.0; 10:1, 1.05; 15:1, 1.2; 20:1, 1.35; 30:1, 1.5; and for ≥ 40:1, 1.7. e. Tabulated <i>F</i>-factors are based on a slab perimeter edge projection above exterior finish grade of 6 inches. For portions of slab perimeter projecting 12 inches or more above grade, multiply the tabulated <i>F</i>-factors by one of the following adjustment factors as applicable: less than 12 inches, 1.0; 12 inches, 1.05; 18 inches, 1.1; 24 inches, 1.15; and 30 inches, 1.2. f. For basement floor slabs, crawl space slabs or gravel floors, the tabulated <i>F</i>-factors shall be multiplied by one of the following adjustment factors based on the depth of the floor surface below exterior finish grade: less than 1 foot, 1.0; 1 foot, 0.95; 3 feet, 0.9; and 6 feet or more, 0.8. g. Vertical insulation on the exterior shall extend for the indicated depth below finish grade and above grade to the top of the slab or stem wall. Where insulation is placed on the interior side of a foundation stem wall, it shall extend from the top of the slab to the indicated depth below the exterior finish grade and the applicable tabulated <i>F</i>-factor shall be multiplied by 1.05. h. The <i>R</i>-value of the vertical insulation located on the interior side of a stem wall shall be permitted to be reduced to R-2.5 at the slab edge, not exceeding 6 inches thick, provided that the applicable <i>F</i>-factor is multiplied by 1.15 where R-5 vertical insulation is specified, 1.2 where R-10 vertical insulation is specified, or 1.25 where R-15 vertical insulation is specified.				

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
APPENDIX NG 2024 IECC STRETCH CODE					
New Appendix This Appendix Not Adopted					
NG101.1	Compliance		No	NO	
NG101.1 (RG101.1) (N1105.2) Simulated building performance compliance. Compliance based on <i>simulated building performance</i> requires that a <i>building</i> comply with the following: 1.The requirements of the sections indicated within Table N1105.2. 2.The proposed total <i>building thermal envelope</i> thermal conductance, TC, shall be less than or equal to the <i>building thermal envelope</i> TC using the prescriptive <i>U</i>-factors and <i>F</i>-factors from Table N1102.1.2 multiplied by 1.08 in <i>Climate Zones</i> 0, 1 and 2, and 1.15 in <i>Climate Zones</i> 3 through 8 in accordance with Equation 11-1 and Section N1102.1.5. The area-weighted maximum <i>fenestration</i> SHGC permitted in <i>Climate Zones</i> 0 through 3 shall be 0.30. 3.For each <i>dwelling unit</i> with one or more fuel-burning <i>appliances</i> for space heating, water heating, or both, the annual <i>energy cost</i> of the <i>dwelling unit</i> shall be less than or equal to 70 percent of the annual <i>energy cost</i> of the <i>standard reference design</i>. For all other <i>dwelling units</i>, the annual <i>energy cost</i> of the <i>dwelling unit</i> shall be less than or equal to 75 percent of the annual <i>energy cost</i> of the <i>standard reference design</i>. For each <i>dwelling unit</i> with greater than 5,000 square feet (465 m²) of <i>living space</i> located above <i>grade plane</i>, the annual <i>energy cost</i> of the <i>dwelling unit</i> shall be reduced by an additional 5 percent of annual <i>energy cost</i> of the <i>standard reference design</i>. Energy prices shall be taken from an <i>approved</i> source, such as the US Energy Information Administration’s state energy data system prices and expenditures reports. <i>Code officials</i> shall be permitted to require time-of-use pricing in <i>energy cost</i> calculations. Exceptions: 1.The energy use based on source energy expressed in <i>Btu</i> or <i>Btu</i> per square foot of <i>conditioned floor area</i> shall be permitted to be substituted for the <i>energy cost</i>. The source energy multiplier for electricity shall be 2.51. The source energy multiplier for fuels other than electricity shall be 1.09. 2.The energy use based on site energy expressed in <i>Btu</i> or <i>Btu</i> per square foot of <i>conditioned floor area</i> shall be permitted to be substituted for the <i>energy cost</i>.					

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation																								
NG101.2	Compliance		No	NO																									
NG101.2 (RG101.2) (N1106.5)ERI-based compliance. Compliance based on an <i>Energy Rating Index</i> (ERI)analysis requires that the <i>rated design</i> and each confirmed as-built <i>dwelling unit</i> be shown to have an ERI less than or equal to the applicable value indicated in Table NG101.2 where compared to the <i>ERI reference design</i> as follows: 1.Where on-site renewables are not installed, the maximum <i>ENERGY RATING INDEX</i> NOT INCLUDING OPP applies. 2.Where on-site renewables are installed, the maximum <i>ENERGY RATING INDEX</i> INCLUDING OPP applies. Exceptions: 1.Where the ERI analysis excludes OPP, the maximum <i>ENERGY RATING INDEX</i> NOT INCLUDING OPP shall be permitted. 2.For <i>buildings</i> with 20 or more <i>dwelling units</i> , where <i>approved</i> by the <i>code official</i> , compliance shall be permitted using the Average Dwelling Unit <i>Energy Rating Index</i> , as calculated in accordance with ANSI/RESNET/ICC 301 .																													
T NG101.2	Compliance		No	NO																									
TABLE NG101.2 (RG101.2) (N1106.5) MAXIMUM ENERGY RATING INDEX <table><tr><th>CLIMATE ZONE</th><th>ENERGY RATING INDEX NOT INCLUDING OPP</th><th>ENERGY RATING INDEX WITH OPP</th></tr><tr><td>0-1</td><td>46</td><td>27</td></tr><tr><td>2</td><td>46</td><td>26</td></tr><tr><td>3</td><td>45</td><td>24</td></tr><tr><td>4</td><td>48</td><td>32</td></tr><tr><td>5</td><td>49</td><td>37</td></tr><tr><td>6</td><td>48</td><td>39</td></tr><tr><td>7 and 8</td><td>47</td><td>43</td></tr></table>						CLIMATE ZONE	ENERGY RATING INDEX NOT INCLUDING OPP	ENERGY RATING INDEX WITH OPP	0-1	46	27	2	46	26	3	45	24	4	48	32	5	49	37	6	48	39	7 and 8	47	43
CLIMATE ZONE	ENERGY RATING INDEX NOT INCLUDING OPP	ENERGY RATING INDEX WITH OPP																											
0-1	46	27																											
2	46	26																											
3	45	24																											
4	48	32																											
5	49	37																											
6	48	39																											
7 and 8	47	43																											
NG101.3	Compliance		No	NO																									
NG101.3 (RG101.3) (N1108.2)Additional energy efficiency credit requirements. <i>Residential buildings</i> shall earn not less than 20 credits from not less than two measures specified in Table N1108.2 . Five additional credits shall be earned for <i>dwellingunits</i> with more than 5,000 square feet (465 m ²) of <i>living space</i> located above <i>grade plane</i> . To earn credit as specified in Table N1108.2 for the applicable <i>Climate Zone</i> , each measure selected for compliance shall comply with the applicable subsections of Section N1108 . Each <i>dwellingunit</i> or <i>sleeping unit</i> shall comply with the selected measure to earn credit. Interpolation of credits between measures shall not be permitted.																													
APPENDIX NH OPERATIONAL CARBON RATING AND ENERGY REPORTING																													
New Appendix This Appendix Not Adopted																													
NH 101	General Definitions		No	NO																									
CO2e INDEX. A numerical integer value, calculated in accordance with ANSI/RESNET/ICC 301 , that represents the relative Carbon Dioxide equivalence (CO ₂ e) emissions of a <i>rated design</i> as compared with the CO ₂ e emissions of the CO ₂ e reference design, where an Index value of 100 represents the CO ₂ e performance of the CO ₂ e reference design and an Index value of 0 (zero) represents a home that emits zero net CO ₂ e annually.																													

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
NH102.1	Compliance		No	NO	
NH102.1 (RH102.1)Application (replaces Section N1101.13). Residential buildings shall comply with Section N1106. Exception: <i>Additions, alterations, repairs and changes of occupancy to existing buildings complying with Sections N1109 through N1113.</i>					
NH102.2	Compliance		No	NO	
NH102.2 (RH102.2)Certificate (replaces Section N1101.14). A permanent certificate shall be completed by the builder or other <i>approved</i> party and posted on a wall in the space where the furnace is located, a utility room or an <i>approved</i> location inside the <i>building</i> . Where located on an electrical panel, the certificate shall not cover or obstruct the visibility of the circuit directory label, service disconnect label or other required labels. The certificate shall indicate the following: 1.The predominant <i>R-values</i> of insulation installed in or on ceilings, roofs, walls, foundation components such as slabs, <i>basement</i> walls, <i>crawl space walls</i> and floors and <i>ducts</i> outside <i>conditioned spaces</i>. 2.<i>U-factors</i> of <i>fenestration</i> and the <i>solar heat gain coefficient</i>(<i>SHGC</i>) of <i>fenestration</i>. Where there is more than one value for any component of the <i>building thermal envelope</i>, the certificate shall indicate both the value covering the largest area and the area weighted average value if available. 3.The results from any required <i>duct system</i> and <i>building thermal envelope</i> air leakage testing performed on the <i>building</i>. 4.The types, sizes and efficiencies of heating, cooling and <i>service water-heating</i> equipment. Where a gas-fired <i>unvented room heater</i>, electric furnace or baseboard electric heater is installed in the residence, the certificate shall indicate “gas-fired <i>unvented room heater</i>,” “electric furnace” or “baseboard electric heater,” as appropriate. An efficiency is not required to be indicated for gas-fired unvented room heaters, electric furnaces or electric baseboard heaters. 5.Where on-site <i>photovoltaic panel systems</i> have been installed, the array capacity, inverter efficiency, panel tilt and orientation shall be noted on the certificate. 6.For <i>buildings</i> where an <i>Energy Rating Index</i> score is determined in accordance with <u>Section N1106</u>, the <i>Energy Rating Index</i> score and <i>CO₂e Index</i>, both with and without any on-site generation, shall be listed on the certificate. 7.The code edition under which the <i>structure</i> was permitted. 8.Where a <i>solar-ready zone</i> is provided, the certificate shall indicate the location and dimensions.					

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
NH102.3	Compliance		No	NO	
NH102.3 (RH102.3)ERI and CO₂e Index compliance (replaces Section N1106.2). Compliance based on the <i>ERI</i> and <i>CO₂e Index</i> requires that the <i>rated design</i> and as-built <i>dwelling</i> unit meet all of the following: 1.The requirements of the sections indicated in Table N1106.2. 2.Maximum <i>ERI</i> values indicated in Table N1106.5. 3.For all-electric <i>dwelling</i> units, maximum <i>CO₂e Index</i> of 65, not including OPP, determined in accordance with ANSI/RESNET/ICC 301. For mixed-fuel <i>dwelling</i> units, a maximum <i>CO₂e Index</i> established at the time of adoption of this appendix by the authority having jurisdiction based on the <i>CO₂e emissions data specific to the jurisdiction</i>.					
NH102.4	Compliance		No	NO	
NH102.4 (RH102.4)Confirmed compliance report for a certificate of occupancy (replaces Section N1106.7.2.2). A confirmed compliance report submitted for obtaining the certificate of occupancy shall be made site and address specific and include the following: 1.Building street address or other <i>building site</i> identification. 2.Declaration of <i>ERI</i> and <i>CO₂e Index</i> on title page and on building plans. 3.The name of the individual performing the analysis and generating the report. 4.The name and version of the compliance software tool. 5.Documentation of all inputs entered into the software used to produce the results for the <i>ERI reference design</i> and the as-built <i>dwelling</i> unit. 6.A final confirmed certificate indicating that the as-built <i>building</i> has been verified to comply with Sections N1106.2, N1106.4 and N1106.5. The certificate shall report the energy features that were confirmed to be in the <i>building</i>, including: component-level insulation <i>R-values</i> or <i>U-factors</i>; results from any required <i>duct system</i> and <i>building thermal envelope</i> air leakage testing; and the type and rated efficiencies of the heating, cooling, mechanical <i>ventilation</i> and service water-heating equipment installed. The certificate shall report the estimated dwelling unit energy use by fuel type, inclusive of all end uses. Where <i>on-site renewable energy</i> systems have been installed on or in the building, the certificate shall report the type and production size of the installed system.					
APPENDIX NI ON-SITE RENEWABLE ENERGY					
This Appendix Not Adopted					
NI101.1	General		No	NO	
NI101.1 (RI101.1)Scope. These provisions shall apply where <i>on-site renewable energy</i> is required.					
NI102	General Definitions		No	NO	
ANNUAL SOLAR ACCESS. The ratio of annual solar insolation with shade to the annual solar insolation without shade. Shading from obstructions located on the roof or any other part of the <i>building</i> are not included in the determination of annual solar access. Shading from existing permanent natural or person-made obstructions that are external to the <i>building</i> , including but not limited to trees, hills and adjacent structures, are included in annual solar access calculations.					

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
PHYSICAL RENEWABLE ENERGY POWER PURCHASE AGREEMENT.A contract for the purchase of renewable electricity from a specific renewable electricity generator to a purchaser of renewable electricity. POTENTIAL SOLAR AREA ZONE. The combined area of any <i>steep slope</i> roofs oriented between 90 degrees and 300 degrees of true north and any low slope roofs where the annual solar access is 70 percent or greater.					
NI103.1	On-Site Renewable Energy		No	NO	
NI103.1 (RI103.1)General <i>Buildings</i> shall comply with Section N1101.13 and the requirements of this section.					
NI103.1.1	On-Site Renewable Energy		No	NO	
NI103.1.1 (RI103.1.1)Installed capacity. An <i>on-site renewable energy</i> system shall be installed on, or at the site of, the <i>building</i> with a peak rated capacity, measured under standard test conditions, in accordance with one of the following: 1.For one- and two- family dwellings, <i>townhouses</i> and other Group R-3 occupancies, the peak rated capacity shall be not less than 2 kW. 2.For Group R-2 or R-4 residential buildings, the peak rated capacity shall be not less than 0.75 watts per square foot (8.07 W/m²) multiplied by the <i>gross conditioned floor area</i>. 3.Where a <i>building</i> includes both commercial occupancies and R-2 or R-4 occupancies required to comply with this code, the peak capacity shall be not less than 0.75 watts per square foot (8.07 W/m²) multiplied by the <i>gross conditioned floor area</i> of the Group R-2 and R-4 occupancies. The capacity of installed <i>on-site renewable energy</i> systems used to comply with this appendix shall be in addition to the total capacity of installed <i>on-site renewable energy</i> systems used to comply with all other requirements of this code. Exceptions: 1.A <i>building</i> with a permanently installed domestic solar water heating system sized with a solar savings fraction of not less than 0.5 based on the total <i>service water heating</i> load of all residential occupancies. 2.One- and two-family dwellings, <i>townhouses</i> and other Group R-3 Occupancies in <i>Climate Zone</i> 4C, 5C or 8. 3.Group R-2 or R-4 occupancies in <i>Climate Zone</i> 8. 4.<i>Buildings</i> where the potential solar zone area is less than 300 square feet (28 m²). 5.<i>Buildings</i> with a physical renewable energy power purchase agreement with a duration of not less than 15 years from a utility or a community renewable energy facility and for not less than 80 percent of the estimated whole-building electric use on an annual basis. This exception shall not apply where off-site renewable energy credits are used to comply with the requirements of Section N1108. 6.Buildings that demonstrate compliance in accordance with Section NI103.1.1.1.					

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation														
NI103.1.1.1	On-Site Renewable Energy		No	NO															
NI103.1.1.1 (RI103.1.1.1)Alternate capacity determination. Where compliance is demonstrated in accordance with Section N1105 and the <i>proposed design</i> and <i>standard reference design</i> are adjusted in accordance with Items 1 and 2, the required capacity of the installed renewable energy systems shall be permitted to differ. 1. 1.<i>Proposed Design</i>. Where applicable, the <i>proposed design</i> shall comply with one of the following: 1. 1.1.Where one or more systems providing <i>on-site renewable energy</i> are included in the <i>construction documents</i>, the systems shall be modeled in the <i>proposed design</i> with a design capacity not greater than the required capacity in accordance with Section NI103.1.1. A combination of <i>on-site renewable energy</i> systems shall be permitted to be included in the <i>proposed design</i>. 2. 1.2.Where no <i>on-site renewable energy</i> systems are specified in the <i>construction documents</i>, no <i>on-site renewable energy</i> systems shall be modeled in the <i>proposed design</i>. 2. 2.<i>Standard Reference Design</i>. Where applicable, the <i>standard reference design</i> shall comply with one of the following: 1. 2.1.Where a <i>proposed design</i> includes one or more <i>on-site renewable energy</i> systems, the same systems shall be modeled identically in the <i>standard reference design</i> except the total rated capacity of all systems shall be equal to the required capacity in accordance with Section NI103.1.1. Where more than one type of <i>on-site renewable energy</i> system is modeled, the total capacity of each system shall be allocated in the same proportion as in the <i>proposed design</i>. 2. 2.2.Where the <i>proposed design</i> does not include any <i>on-site renewable energy</i> systems, an unshaded photovoltaic system shall be modeled in the <i>standard reference design</i> in accordance with the performance criteria in Table NI103.1.1.1.																			
T NI103.1.1.1	On-Site Renewable Energy		No	NO															
TABLE NI103.1.1.1 (RI103.1.1.1) PERFORMANCE CRITERIA FOR STANDARD REFERENCE DESIGN PHOTOVOLTAIC SYSTEMS <table><tr><th>CRITERIA</th><th>DESIGN MODEL</th></tr><tr><td>Size</td><td>Rated capacity not less than required in accordance with Section NI103.1.1.</td></tr><tr><td>Module type</td><td>Crystalline silicon panel with a glass cover, 19.1% nominal efficiency and temperature coefficient (Tc Power) of -0.37%/°C.</td></tr><tr><td>Array type</td><td>Rack-mounted array with installed nominal operating cell temperature (NOCT) of 103°F (45°C).</td></tr><tr><td>Total system losses (DC output)</td><td>11.3%</td></tr><tr><td>Tilt</td><td>0 degrees (mounted horizontally)</td></tr><tr><td>Azimuth</td><td>180 degrees</td></tr></table> For St: °C = [(°F) - 32]/1.8.						CRITERIA	DESIGN MODEL	Size	Rated capacity not less than required in accordance with Section NI103.1.1 .	Module type	Crystalline silicon panel with a glass cover, 19.1% nominal efficiency and temperature coefficient (Tc Power) of -0.37%/°C.	Array type	Rack-mounted array with installed nominal operating cell temperature (NOCT) of 103°F (45°C).	Total system losses (DC output)	11.3%	Tilt	0 degrees (mounted horizontally)	Azimuth	180 degrees
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Tilt	0 degrees (mounted horizontally)																		
Azimuth	180 degrees																		
NI103.1.2	On-Site Renewable Energy		No	NO															
NI103.1.2 (RI103.1.2)ERI with OPP requirements. Where compliance is demonstrated in accordance with Section N1106.5 using the <i>Energy Rating Index</i> with OPP, a project shall comply with the requirements of this appendix if the rated proposed design and confirmed built <i>dwelling</i> are shown to have an <i>ERI</i> less than or equal to the values in Table NI103.1.2.																			

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation																
T NI103.1.2	On-Site Renewable Energy		No	NO																	
TABLE NI103.1.2 (RI103.1.2) MAXIMUM ENERGY RATING INDEX INCLUDING OPP																					
<table><tr><th>CLIMATE ZONE</th><th>ENERGY RATING INDEX WITH OPP</th></tr><tr><td>0 and 1</td><td>35</td></tr><tr><td>2</td><td>34</td></tr><tr><td>3</td><td>33</td></tr><tr><td>4</td><td>40</td></tr><tr><td>5</td><td>43</td></tr><tr><td>6</td><td>43</td></tr><tr><td>7 and 8</td><td>46</td></tr></table>						CLIMATE ZONE	ENERGY RATING INDEX WITH OPP	0 and 1	35	2	34	3	33	4	40	5	43	6	43	7 and 8	46
CLIMATE ZONE	ENERGY RATING INDEX WITH OPP																				
0 and 1	35																				
2	34																				
3	33																				
4	40																				
5	43																				
6	43																				
7 and 8	46																				
NI103.2	On-Site Renewable Energy		No	NO																	
NI103.2 (RI103.2)Renewable energy certificate (REC) documentation. Where renewable energy certificates (RECs) are associated with renewable energy power production, required documentation shall comply with Section N1104.4.																					
APPENDIX NJ DEMAND RESPONSIVE CONTROLS																					
New Appendix This Appendix Not Adopted																					
NJ101.1	Demand Responsive Water Heating		No	NO																	
NJ101.1 (RJ101.1)Demand responsive water heating. Electric storage <i>water heaters</i> with a rated water storage volume of 40 gallons (150 L) to 120 gallons (450 L) and a nameplate input rating equal to or less than 12 kW shall be provided with <i>demand responsive controls</i> in accordance with Table NJ101.1. Exceptions: 1. <i>Water heaters</i> that are capable of delivering water at a temperature of 180°F (82°C) or greater. 2. <i>Water heaters</i> that comply with Section IV, Part HLW or Section X of the ASME Boiler and Pressure Vessel Code. 3. <i>Water heaters</i> that use three-phase electric power.																					
T NJ101.1	Demand Responsive Water Heating		No	NO																	
TABLE NJ101.1 (RJ101.1) DEMAND RESPONSIVE CONTROLS FOR WATER HEATING																					
<table><tr><th rowspan="2">EQUIPMENT TYPE</th><th colspan="2">CONTROLS</th></tr><tr><th>Manufactured before 7/1/2026</th><th>Manufactured on or after 7/1/2026</th></tr><tr><td>Electric storage water heaters</td><td>AHRI 1430 (I-P) or ANSI/CTA-2045-B Level 1 and also capable of initiating water heating to meet the temperature set point in response to a demand response signal.</td><td>AHRI 1430 (I-P).</td></tr></table>						EQUIPMENT TYPE	CONTROLS		Manufactured before 7/1/2026	Manufactured on or after 7/1/2026	Electric storage water heaters	AHRI 1430 (I-P) or ANSI/CTA-2045-B Level 1 and also capable of initiating water heating to meet the temperature set point in response to a demand response signal.	AHRI 1430 (I-P).								
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NJ102.1	Referenced Standards		No	NO																	
NJ102.1 (RJ102.1)General. See Table NJ102.1 for standards that are referenced in various section of this appendix. Standards are listed by the standard identification with the effective date, the standard title, and the section or sections of this appendix that reference this standard.																					

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
T NJ102.1	Referenced Standards		No	NO	
TABLE NJ102.1 (RJ102.1) REFERENCED STANDARDS STANDARD ACRONYM STANDARD NAME SECTION(S) HEREIN REFERENCED AHRI 1430—2022 (J-P) Demand Flexible Electric Storage Water Heaters Table NJ101.1 ASME BPVC ASME Boiler and Pressure Vessel Code NJ101.1					
APPENDIX NK ELECTRIC-READY RESIDENTIAL BUILDING PROVISIONS					
New Appendix This Appendix Not Adopted					
NK101.1	Electric Readiness		No	NO	
NK101.1 (RK101.1)Electric readiness. <i>Water heaters, household clothes dryers and cooking appliances that use fuel gas or liquid fuel shall comply with Sections NK101.1.1 through NK101.1.4.</i>					
NK101.1.1	Electric Readiness		No	NO	
NK101.1.1 (RK101.1.1)Cooking appliances. A dedicated branch circuit outlet with a rating not less than 240 volts and not less than 40 amperes shall be installed and terminate within 3 feet (914 mm) of conventional cooking tops, conventional ovens or cooking <i>appliances</i> combining both. Exception: Cooking <i>appliances</i> not installed in an individual <i>dwelling unit</i> .					
NK101.1.2	Electric Readiness		No	NO	
NK101.1.2 (RK101.2)Household clothes dryers. A dedicated branch circuit with a rating not less than 240 volts and not less than 30 amperes shall be installed and terminate within 3 feet (914 mm) of each household <i>clothes dryer</i> . Exception: <i>Clothes dryers</i> not installed in an individual <i>dwelling unit</i> .					
NK101.1.3	Electric Readiness		No	NO	
NK101.1.3 (RK101.1.3)Water heaters. A dedicated branch circuit with a rating either not less than 240 volts and not less than 30 amperes, or not less than 120 volts and not less than 20 amperes, shall be installed and terminate within 3 feet (914 mm) of each <i>water heater</i> . Exception: <i>Water heaters</i> serving multiple <i>dwelling units</i> in a R-2 occupancy.					
NK101.1.4	Electric Readiness		No	NO	
NK101.1.4 (RK101.1.4)Electrification-ready circuits. The unused conductors required by Sections NK101.1.1 through NK101.1.3 shall be labeled with the word “spare.” Space shall be reserved in the electrical panel in which the branch circuit originates for the installation of an overcurrent device. Capacity for the circuits required by Sections NK101.1.1 through NK101.1.3 shall be included in the load calculations of the original installation.					

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
APPENDIX NL RENEWABLE ENERGY INFRASTRUCTURE					
New Appendix This Appendix Not Adopted					
NL101.1	Renewable Energy Infrastructure		No	NO	
NL101.1 (RL101.1)Renewable energy infrastructure. The <i>building</i> shall comply with the requirements of Section NL101.1.1 or NL101.1.2 .					
NL101.1.1	Renewable Energy Infrastructure		No	NO	
NL101.1.1 (RL101.1.1)One- and two-family dwellings and townhouses. One- and two-family dwellings and townhouses shall comply with Sections NL101.1.1.1 through NL101.1.1.4 . Exceptions: 1.A <i>dwelling unit</i> with a permanently installed on-site renewable energy system. 2.A <i>dwelling unit</i> with a <i>solar-ready zone</i> area that is less than 500 square feet (46 m²) of roof area oriented between 110 degrees (1.92 rad) and 270 (4.71 rad) degrees of true north. 3.A <i>dwelling unit</i> with less than 500 square feet (46 m²) of roof area oriented between 110 degrees and 270 degrees of true north. 4.<i>Dwelling units</i> where 50 percent of the <i>solar-ready zone</i> area is shaded from direct-beam sunlight by natural objects or by structures that are not part of the <i>building</i> for more than 2,500 annual hours between 8:00 a.m. and 4:00 p.m. 5.A <i>dwelling unit</i> that complies with Appendix NC. 6.A <i>dwelling unit</i> with a renewable energy power purchase agreement with a duration of not less than 15 years from a utility or a community renewable energy facility and for not less than 80 percent of the estimated <i>dwelling unit</i> whole-building electric use on an annual basis. 7.A <i>dwelling unit</i> with less than or equal to 1,500 square feet (139 m²) of living space located above grade plane.					
NL101.1.1.1	Renewable Energy Infrastructure		No	NO	
NL101.1.1.1 (RL101.1.1.1)Solar-ready zone area. The total area of the <i>solar-ready zone</i> shall not be less than 250 square feet (23.2 m ²) and shall be composed of areas not less than 5.5 feet (1676 mm) in one direction and not less than 80 square feet (7.4 m ²) exclusive of access or set back areas as required by this code. Exception: Dwelling units in townhouses three stories or less in height above grade plane and with a total floor area less than or equal to 2,000 square feet (186 m ²) per dwelling shall be permitted to have a solar-ready zone area of not less than 150 square feet (14 m ²).					
NL101.1.1.2	Renewable Energy Infrastructure		No	NO	
NL101.1.1.2 (RL101.1.1.2)Obstructions. <i>Solar-ready zones</i> shall be free from obstructions, including but not limited to vents, chimneys and roof-mounted equipment.					

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
NL101.1.1.3	Renewable Energy Infrastructure		No	NO	
NL101.1.1.3 (RL101.1.1.3)Electrical service reserved space. The main electrical service panel shall have a reserved space for a dual-pole circuit breaker and shall be labeled “For Future Renewable Electric.” The reserved space shall be at the opposite (load) end of the busbar from the primary energy source.					
NL101.1.1.4	Renewable Energy Infrastructure		No	NO	
NL101.1.1.4 (RL101.1.1.4)Electrical interconnection. An electrical junction box shall be installed within 24 inches (610 mm) of the main electrical service panel and shall be connected to a capped roof penetration sleeve or a location in the attic that is within 3 feet (914 mm) of the <i>solar-ready zone</i> by a nonflexible metallic conduit not less than 1 inch (25 mm) in diameter or by permanently installed wire as <i>approved</i> . Where the interconnection terminates in the attic, the location shall be not less than 12 inches (35 mm) above ceiling insulation. Both ends of the interconnection shall be labeled “For Future Renewable Electric.”					
NL101.1.2	Renewable Energy Infrastructure		No	NO	
NL101.1.2 (RL101.1.2)Group R occupancies. Residential buildings other than one- and two-family dwellings and townhouses shall comply with Sections NL101.1.2.1 through NL101.1.2.8 .					
NL101.1.2.1	Renewable Energy Infrastructure		No	NO	
NL101.1.2.1 (RL101.1.2.1)General. A <i>solar-ready zone</i> shall be located on the roof of residential buildings that are oriented between 110 degrees and 270 degrees of true north or have low slope roofs. <i>Solar-ready zones</i> shall comply with Sections NL101.1.2.2 through NL101.1.2.8 . Exceptions: 1.A <i>building</i> with a permanently installed on-site renewable energy system. 2.A <i>building</i> with a <i>solar-ready zone</i> area that is shaded for more than 70 percent of daylight hours annually. 3.A <i>building</i> where an <i>approved party</i> certifies that the incident solar radiation available to the <i>building</i> is not suitable for a <i>solar-ready zone</i>. 4.A <i>building</i> where an <i>approved party</i> certifies that the <i>solar-ready zone</i> area required by Section NL101.1.2.3 cannot be met because of rooftop equipment, skylights, vegetative roof areas or other obstructions. 5.A <i>building</i> that complies with Appendix NC. 6.A <i>building</i> with a renewable energy power purchase agreement with a duration of not less than 15 years from a utility or a community renewable energy facility and for not less than 80 percent of the estimated electric use of the residential occupancy portion of the <i>building</i> on an annual basis.					

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
NL101.1.2.2	Renewable Energy Infrastructure		No	NO	
NL101.1.2.2 (RL101.1.2.2)Construction document requirements for a solar-ready zone. <i>Construction documents shall indicate the solar-ready zone.</i>					
NL101.1.2.3	Renewable Energy Infrastructure		No	NO	
NL101.1.2.3 (RL101.1.2.3)Solar-ready zone area. The total <i>solar-ready zone</i> area shall be not less than 40 percent of the roof area calculated as the horizontally projected gross roof area less the area covered by penthouses, mechanical equipment, rooftop structures, skylights, occupied roof decks, vegetative roof areas and mandatory access or set back areas as required by the <i>International Fire Code</i> . The <i>solar-ready zone</i> shall be a single area or smaller, separated sub-zone areas. Each sub-zone shall be not less than 5 feet (1524 mm) in width in the narrowest dimension.					
NL101.1.2.4	Renewable Energy Infrastructure		No	NO	
NL101.1.2.4 (RL101.1.2.4)Obstructions. <i>Solar-ready zones shall be free from obstructions, including pipes, vents, ducts, HVAC equipment, skylights and roof-mounted equipment.</i>					
NL101.1.2.5	Renewable Energy Infrastructure		No	NO	
NL101.1.2.5 (RL101.1.2.5)Roof loads and documentation. A collateral dead load of not less than 5 pounds per square foot (24.41 kg/m ²) shall be included in the gravity and lateral design calculations for the <i>solar-ready zone</i> . The structural design loads for roof dead load and roof live load shall be indicated on the <i>construction documents</i> .					
NL101.1.2.6	Renewable Energy Infrastructure		No	NO	
NL101.1.2.6 (RL101.1.2.6)Interconnection pathway. <i>Construction documents shall indicate pathways for routing of conduit or plumbing from the solar-ready zone to the electrical service panel or service hot water system.</i>					
NL101.1.2.7	Renewable Energy Infrastructure		No	NO	
NL101.1.2.7 (RL101.1.2.7)Electrical service reserved space. The main electrical service panel shall have a reserved space to allow installation of a dual-pole circuit breaker for future solar electric and shall be labeled “For Future Renewable Electric.” The reserved spaces shall be positioned at the end of the panel that is opposite from the panel supply conductor connection.					

2024 Code Section	TITLE OR SUBJECT	Reviewer Comments	Cost Yes/No	Amendment Needed Yes/No	TAG Comments/ Recommendation
NL101.1.2.8	Renewable Energy Infrastructure		No	NO	
NL101.1.2.8 (RL101.1.2.8)Construction documentation certificate. A permanent certificate, indicating the <i>solar-ready zone</i> and other requirements of this section, shall be posted near the electrical distribution panel, water heater or other conspicuous location.					
RESOURCE A ALL-ELECTRIC RESIDENTIAL BUILDINGS					
New Resource This Resource Not Adopted					
A101.1	General		No	NO	
A101.1 (RRA101.1)Intent. The intent of this resource is to amend the <i>International Energy Conservation Code</i> to reduce greenhouse gas emissions and improve the safety and health of buildings by not permitting combustion equipment in buildings.					
A101.2	General		No	NO	
A101.2 (RRA101.2)Scope. This resource applies to new residential buildings.					
A102	General Definitions		No	NO	
ALL-ELECTRIC BUILDING. A building that contains no combustion equipment, or plumbing for combustion equipment, installed within the building or building site. APPLIANCE. A device or apparatus that is manufactured and designed to utilize energy and for which this code provides specific requirements. COMBUSTION EQUIPMENT. Any equipment or appliance used for space heating, service water heating, cooking, clothes drying or lighting that uses fuel gas or liquid fuel. EQUIPMENT. Piping, ducts, vents, control devices and other components of systems other than appliances that are permanently installed and integrated to provide control of environmental conditions for buildings. This definition shall also include other systems specifically regulated in this code.					
A103.1	All-Electric Residential Buildings		No	NO	
A103.1 (RRA103.1)Application. Residential buildings shall be all-electric buildings and comply with Section N1101.13.1 , N1101.13.2 , N1101.13.3 or N1101.13.4 .					