

IRC TAG Existing Amendment Review

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Repeal Existing Amendment	Modify Existing Amendment:	Keep existing amendment (May include renumbering):

Red text = State amended language

Blue text = 2024 Model code change language

Last Updated: February 27, 2025

WAC	Title or Subject	2021 IRC #	2024 IRC #	Rationale	2024 Staff Recommendation	2024 TAG Member Recommendation	Other Comments
PREFACE							
51-51-001	Authority.	NA	NA	NA	Keep existing amendment		
These rules are adopted under the authority of chapter 19.27 RCW.							
51-51-002	Purpose	NA	NA	NA	Keep existing amendment		
The purpose of these rules is to implement the provisions of chapter 19.27 RCW, which provides that the state building code council shall maintain the State Building Code in a status which is consistent with the purpose as set forth in RCW 19.27.020 . In maintaining the codes, the council shall regularly review updated versions of the codes adopted under the act, and other pertinent information, and shall amend the codes as deemed appropriate by the council.							
51-51-003	International Residential Code	NA	NA	NA	Modify Existing Amendment		Editorial, Modification needed is editorial. Update code year and adjust appendices as necessary.
The 2021 edition of the <i>International Residential Code</i> as published by the International Code Council is hereby adopted by reference with the following additions, deletions, and exceptions: Provided that chapters 11 and 25 through 43 of this code are not adopted. Energy Code is regulated by chapter 51-11R WAC; Plumbing Code is regulated by chapter 51-56 WAC; Electrical Code is regulated by chapter 296-46B WAC or Electrical Code as adopted by the local jurisdiction. Appendix AF, Radon Control Methods, Appendix AQ, Tiny Homes, and Appendix AWU, Dwelling Unit Fire Sprinkler Systems, are included in adoption of the International Residential Code.							
51-51-007	Exceptions	NA	NA	NA	Modify Existing Amendment		Editorial, Modification needed is editorial. Pronouns to change to Their
The exceptions and amendments to the International Residential Code contained in the provisions of chapter 19.27 RCW shall apply in case of conflict with any of the provisions of these rules. The provisions of this code do not apply to temporary growing structures used solely for the commercial production of horticultural plants including ornamental plants, flowers, vegetables, and fruits. "Temporary growing structure" means a structure that has the sides and roof covered with polyethylene, polyvinyl, or similar flexible synthetic material and is used to provide plants with either frost protection or increased heat retention. A temporary growing structure is not considered a building for purposes of this code. The provisions of this code do not apply to the construction, alteration, or repair of temporary worker housing except as provided by rule adopted under chapter 70.114A RCW or chapter 37, Laws of 1998 (SB 6168). "Temporary worker housing" means a place, area, or piece of land where sleeping places or housing sites are provided by an employer for his or her employees or by another person, including a temporary worker housing operator, who is providing such accommodations for employees, for temporary, seasonal occupancy, and includes "labor camps" under RCW 70.54.110. Codes referenced which are not adopted through RCW 19.27.031 or chapter 19.27A RCW shall not apply unless specifically adopted by the authority having jurisdiction. The standards for liquefied petroleum gas installations shall be NFPA 58 (Liquefied Petroleum Gas Code) and NFPA 54 (National Fuel Gas Code). All other fuel gas installations shall be regulated by the International Mechanical Code and International Fuel Gas Code.							

WAC	Title or Subject	2021 IRC #	2024 IRC #	Rationale	2024 Staff Recommendation	2024 TAG Member Recommendation	Other Comments
51-51-008	Implementation	NA	NA	NA	Modify Existing Amendment		Editorial, Modification needed is editorial.
	The International Residential Code adopted by chapter 51-51 WAC shall become effective in all counties and cities of this state on March 15, 2024 .						
CHAPTER 1 SCOPE AND ADMINISTRATION (Part I Administrative)							
51-51-01010	Scope and General Requirements	R101.2	R101.2	Original amendment created to bring a sprinkler exception for lodging houses. (WSR 15-16-086) Next Modification to amendment in 2018 cycle addressed appendix renumbering. (WSR 19-16-156) Last revision to amendment language occurred in the 2021 Cycle and brought modifications necessary to align with model code language. (WSR 22-17-148) Editorial Amendment revises appendix U to WU to avoid confusion (WSR 23-15-030)	Modify Existing Amendment		Proposal Needed. This section has had an opinion written for it see Opinion 24-27 . This Section Needs Work to increase clarity.
	R101.2 Scope. The provisions of the <i>International Residential Code for One- and Two-Family Dwellings</i> shall apply to the construction, <i>alteration</i>, movement, enlargement, replacement, <i>repair, equipment</i>, use and occupancy, location, removal and demolition of detached one- and two-family dwellings, adult family homes, and <i>townhouses</i> not more than three stories above <i>grade plane</i> in height with a separate means of egress and their <i>accessory structures</i> not more than three stories above <i>grade plane</i> in height. EXCEPTIONS: 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> shall be permitted to be constructed in accordance with the <i>International Residential Code for One- and Two-Family Dwellings</i>. An automatic sprinkler system required by Section 508.5.7 of the <i>International Building Code</i> where constructed under the <i>International Residential Code for One- and Two-Family Dwellings</i> shall conform to Appendix AWU. 2. Owner-occupied lodging houses with one or two guestrooms shall be permitted to be constructed in accordance with the <i>International Residential Code for One- and Two-Family Dwellings</i>. 3. Owner-occupied lodging homes with three to five guestrooms shall be permitted to be constructed in accordance with the <i>International Residential Code for One- and Two-Family Dwellings</i> where equipped with an automatic fire sprinkler system in accordance with Appendix AWU. 4. A care facility with five or fewer persons receiving custodial care within a dwelling unit shall be permitted to be constructed in accordance with the <i>International Residential Code for One- and Two-Family Dwellings</i> where equipped with an automatic fire sprinkler system in accordance with Appendix AWU. 5. A day care facility with five or fewer persons of any age receiving medical care within a dwelling unit shall be permitted to be constructed in accordance with the <i>International Residential Code for One- and Two-Family Dwellings</i> where equipped with an automatic fire sprinkler system in accordance with Appendix AWU. 6. A care facility with five or fewer persons receiving care that are within a single-family dwelling shall be permitted to be constructed in accordance with the <i>International Residential Code for One- and Two-Family Dwellings</i> where equipped with an automatic fire sprinkler system in accordance with Appendix AWU.						

Commented [DC1]: The word “unit” is part of the existing amendment but is now a part of model code language for 2024.

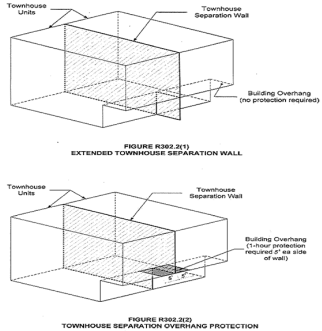
WAC	Title or Subject	2021 IRC #	2024 IRC #	Rationale	2024 Staff Recommendation	2024 TAG Member Recommendation	Other Comments
51-51-0102	Applicability	R102.5	R101.2.1	As part of the 2006 cycle amendment created to clarify appendices not applicable unless adopted locally and approved by the SBCC (WSR 06-16-112) 2009 cycle, adds preapproved sprinkler appendix S for adoption upon notification of the SBCC. Also adopts appendices G for pools and R for Dwelling Sprinkler systems. (WSR 09-01-140) 2015 cycle adds appendices R, S, U, and V preapproved for local adoption. (WSR 15-16-086) 2021 cycle changes WA Appendix U to WU for clarity, and adds Appendices T, Y, and Z to preapproved adoption list. (WSR 23-15-030)	Modify Existing Amendment		Editorial, Incorporate New Model Code Language, Renumber, and Verify Appendix numbering.
51-51-0102	R102.5 Appendices. Provisions in the appendices shall not apply unless specifically adopted referenced in the adopting ordinance . An appendix adopted by a local jurisdiction shall not be effective unless approved by the state building code council pursuant to RCW 19.27.060 (1)(a). EXCEPTIONS: 1. The state building code council has determined that a local ordinance providing specifications for light straw-clay or strawbale construction, requiring a solar-ready zone, requiring fire sprinklers, or addressing construction and demolition material management or building deconstruction in accordance with Appendix AR , AS , AT , AWV , AWY , or AWZ of this code may be adopted by any local government upon notification of the council. 2. Appendix AF , Radon Control Methods, Appendix AQ , Tiny Homes, and Appendix AWU , Dwelling Unit Fire Sprinkler Systems, are included in adoption of the International Residential Code.						
	Applicability	R102.7.1	R102.6.1	2009 cycle added an exception for ventilation and radon protection. (WSR 09-17-140) 2021 cycle incorporates model code language. (WSR 22-17-148)	Keep existing amendment		Editorial, Renumber to R102.6.1
	R102.7.1 Additions, alterations, change of use, repairs, or relocations. Additions, alterations, repairs, or relocations shall be permitted to conform to the requirements of the provisions of Chapter 45 or shall conform to the requirements for new structure without requiring the existing structure to comply with the requirements of this code, unless otherwise stated. Additions, alterations, repairs, and relocations shall not cause an existing structure to become less compliant with the provisions of this code than the existing building or structure was prior to the addition, alteration, repair, or relocation. Where additions, alterations, or changes of use to an existing structure result in a use or occupancy, height, or means of egress outside the scope of this code, the building shall comply with the <i>International Existing Building Code</i> . EXCEPTIONS: 1. The state building code council has determined that a local ordinance providing specifications for light straw-clay or strawbale construction, requiring a solar-ready zone, requiring fire sprinklers, or addressing construction and demolition material management or building deconstruction in accordance with Appendix AR, AS, AT, AWV, AWY, or AWZ of this code may be adopted by any local government upon notification of the council. 2. Appendix AF, Radon Control Methods, Appendix AQ, Tiny Homes, and Appendix AWU, Dwelling Unit Fire Sprinkler Systems, are included in adoption of the International Residential Code.						
	Applicability	102.7.2	NA	Existing prior to adoption of 2003 Codes (WSR 03-18-077)	Keep existing amendment		Editorial, Renumber to 102.6.2
	R102.7.2 Moved buildings. Buildings or structures moved into or within a jurisdiction shall comply with the provisions of this code, the <i>International Building Code</i> (chapter 51-50 WAC), the <i>International Mechanical Code</i> (chapter 51-52 WAC), the <i>International Fire Code</i> (chapter 51-54A WAC), the <i>Uniform Plumbing Code and Standards</i> (chapter 51-56 WAC), and the <i>Washington State Energy Code</i> (chapter 51-11R WAC) for new buildings or structures. EXCEPTION: Group R-3 buildings or structures are not required to comply if: 1. The original occupancy classification is not changed; and 2. The original building is not substantially remodeled or rehabilitated. For the purposes of this section a building shall be considered to be substantially remodeled when the costs of remodeling exceed 60 percent of the value of the building exclusive of the costs relating to preparation, construction, demolition or renovation of foundations.						

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CHAPTER 2 DEFINITIONS (Part II Definitions)							
51-51-0202	Definition	202	202	Existing prior to adoption of 2003 Codes (WSR 03-18-077) Modified in 2018 codes off-cycle to address increasing the number of bedsfrom 6 to 8. (WSR 21-03-080)	Keep existing amendment		
	ADULT FAMILY HOME. A dwelling, licensed by the state of Washington department of social and health services, in which a person or persons provide personal care, special care, room and board to more than one but not more than six adults who are not related by blood or marriage to the person or persons providing the services. An existing adult family home may provide services to up to eight adults upon approval from the department of social and health services in accordance with RCW 70.128.066 .						
	Definition	202	202	Added in 2018 cycle no rationale in CR document (WSR 19-16-156)	Keep existing amendment		Chapter 11 not adopted per 51-51-003
	BUILDING. Any one- or two-family <i>dwelling</i> or <i>townhouse</i> , or portion thereof used or intended to be used for human habitation, for living, sleeping, cooking or eating purposes, or any combination thereof, or any accessory structure. For the definition applicable in Chapter 11, see Section N1101.6:						
	Definition	202	202	Added in 2018 cycle no rationale in CR document (WSR 19-16-156)	Keep existing amendment		Editorial, Align with Model Code. Definition is for “EXISTING BUILDING”
	BUILDING, EXISTING. Existing building is A <i>building</i> or <i>structure</i> erected prior to the adoption of this code, or one for which a legal building permit has been issued that has passed a final inspection.						
	Definition	202	202	Existing prior to adoption of 2003 Codes (WSR 03-18-077) 2012 cycle modified the definition (WSR 12-16-091) 2021 code off-cycle change to increase from 12 to 16 children. (WSR 23-23-038)	Keep existing amendment		
	CHILD CARE, FAMILY HOME. A child care facility, licensed by Washington state, located in the dwelling of the person or persons under whose direct care and supervision the child is placed, for the care of 16 or fewer children, including children who reside at the home.						
	Definition	202	202	Existing prior to adoption of 2003 Codes (WSR 03-18-077)	Keep existing amendment		
	CHILD DAY CARE, shall, for the purposes of these regulations, mean the care of children during any period of a 24-hour day.						
	Definition	202	202	Added in 2015 cycle, no rationale in CR document. (WSR 15-16-086)	Keep existing amendment		Chapter 11 not adopted per 51-51-003
	CONDITIONED SPACE. For the definition applicable in Chapter 11, see Section N1101.6 An area, room or space that is enclosed within the building thermal envelope and that is directly or indirectly heated or cooled. Spaces are indirectly heated or cooled where they communicate through openings with conditioned spaces, where they are separated from conditioned spaces by uninsulated walls, floors or ceilings, or where they contain uninsulated ducts, piping or other sources of heating or cooling.						
	Definition	202	202	Added in 2018 cycle no rationale in CR document (WSR 19-16-156)	Keep existing amendment		
	DISTRIBUTED WHOLE-HOUSE VENTILATION. A whole-house ventilation system shall be considered distributed when it supplies outdoor air directly (not transfer air) to each dwelling or sleeping unit habitable space (living room, den, office, interior adjoining spaces or bedroom), and exhausts air from all kitchens and bathrooms directly outside.						
	Definition	202	202	Added in 2006 cycle. (WSR 06-16-112) 2009 cycle added owner occupied dwellings to uses considered dwelling units. (WSR 09-17-140) 2012 cycle removed Owner occupied dwellings and added Accessory dwelling units within existing dwellings and smoke alarm interconnection. (WSR 12-16-091) Modified in 2018 cycle. Removed accessory dwelling units within existing dwellings language. (WSR 19-16-156)	Modify Existing Amendment		Proposal needed, Incorporate new model code language. Chapter 11 not adopted per 51-51-003

[illegible]

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	Definition	202	202	Added in 2006 cycle (WSR 06-16-112) 2012 cycle removes language 1,000,000 or less in sales from definition. (WSR 12-16-091)	Keep existing amendment		
	SMALL BUSINESS. Any business entity (including a sole proprietorship, corporation, partnership or other legal entity) which is owned and operated independently from all other businesses, which has the purpose of making a profit, and which has fifty or fewer employees.						
	Definition	202	202	Added in 2018 cycle no rationale in CR document (WSR 19-16-156)	Keep existing amendment		
	TOWNHOUSE UNIT. A single-family <i>dwelling unit</i> in a <i>townhouse</i> that extends from foundation to roof and that has a yard or public way on not less than two sides that extends at least 50 percent of the length of each of these two sides.						
CHAPTER 3 BUILDING PLANNING (Part III Building Planning and Construction)							
51-51-0301	Design Criteria	R301.2	R301.2	Amendment added in 2015 cycle to allow local jurisdiction to designate salt water coastal areas within their jurisdictions (WSR 15-16-086)	Keep existing amendment		
	R301.2 Climatic and geographic design criteria. Buildings shall be constructed in accordance with the provisions of this code as limited by the provisions of this section. Additional criteria shall be established by the local jurisdiction and set forth in Table R301.2. The local jurisdiction shall designate the salt water coastal areas within their jurisdiction.						
	Design Criteria	R301.2.2.10	R301.2.2.10 + R301.2.2.10.1	Amendment added in 2021 cycle to correctly reference the UPC (WSR 22-17-148)	Repeal Existing Amendment		See Significant Change report UPC Amendment / language still effective for requirement.
	R301.2.2.10 Anchorage of water heaters. In <i>Seismic Design Categories</i> D ₀ , D ₁ and D ₂ , and in townhouses in <i>Seismic Design Category</i> C, water heaters and thermal storage units shall be anchored against movement and overturning in accordance with Section M1307.2 or P2801-8 the Uniform Plumbing Code Section 507.2.						
	Design Criteria	R301.5	R301.5	Table amended in 2006 cycle. (WSR 07-16-026) Amendment removed in 2009 cycle (WSR 09-17-140) Amendment to table again in 2015 cycle increasing balcony live loads to align with ASCE 7 and adding footnote J. (WSR 15-16-086)	Keep existing amendment		

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	R301.5 Live load. The minimum uniformly distributed live load shall be as provided in Table R301.5. <table><tr><th colspan="3">TABLE R301.5 MINIMUM UNIFORMLY DISTRIBUTED LIVE LOADS (in pounds per square foot)</th></tr><tr><th>Use</th><th>Uniform Loads (psf)</th><th>Concentrated Load (lb)</th></tr><tr><td>Uninhabitable attics without storage^b</td><td>10</td><td>-</td></tr><tr><td>Uninhabitable attics with limited storage^{b, g}</td><td>20</td><td>-</td></tr><tr><td>Habitable attics and attics served with fixed stairs</td><td>30</td><td>-</td></tr><tr><td>Balconies (exterior) and decks^g</td><td>60^j</td><td>-</td></tr><tr><td>Fire escapes</td><td>40</td><td>-</td></tr><tr><td>Guards</td><td>-</td><td>200^{h,i}</td></tr><tr><td>Guard in-fill components^f</td><td>-</td><td>50^h</td></tr><tr><td>Handrail^d</td><td>-</td><td>200^h</td></tr><tr><td>Passenger vehicle garages</td><td>50^a</td><td>2,000^a</td></tr><tr><td>Areas other than sleeping areas</td><td>40</td><td>-</td></tr><tr><td>Sleeping areas</td><td>30</td><td>-</td></tr><tr><td>Stairs</td><td>40^c</td><td>300^c</td></tr></table> For SI: 1 pound per square foot = 0.0479 kPa, 1 square inch = 645 mm, 1 pound = 4.45 N a. Elevated garage floors shall be capable of supporting the uniformly distributed live load or a 2,000-pound concentrated load applied on an area of 4-1/2 inches by 4-1/2 inches, whichever produces the greater stresses. b. Uninhabitable attics without storage are those where the clear height between joists and rafters is not more than 42 inches, or where there are not two or more adjacent trusses with web configurations capable of accommodating an assumed rectangle 42 inches in height by 24 inches in width, or greater, within the plane of the trusses. This live load need not be assumed to act concurrently with any other live load requirements. c. Individual stair treads shall be capable of supporting the uniformly distributed live load or a 300-pound concentrated load applied on an area of 2 inches by 2 inches, whichever produces the greater stresses. d. A single concentrated load applied in any direction at any point along the top. For a guard not required to serve as a handrail, the load need not be applied to the top element of the guard in a direction parallel to such element. e. See Section R507.1 for decks attached to exterior walls. f. Guard in-fill components (all those except the handrail), balusters and panel fillers shall be designed to withstand a horizontally applied normal load of 50 pounds on an area equal to 1 square foot. This load need not be assumed to act concurrently with any other live load requirement. g. Uninhabitable attics with limited storage are those where the clear height between joists and rafters is 42 inches or greater, or where there are two or more adjacent trusses with web configurations capable of accommodating an assumed rectangle 42 inches in height by 24 inches in width, or greater, within the plane of the trusses. The live load need only be applied to those portions of the joists or truss bottom chords where all of the following conditions are met: g1. The attic area is accessed from an opening not less than 20 inches in width by 30 inches in length that is located where the clear height in the attic is not less than 30 inches. g2. The slopes of the joists or truss bottom chords are not greater than 2 units vertical to 12 units horizontal. g3. Required insulation depth is less than the joist or truss bottom chord member depth. The remaining portions of the joists or truss bottom chords shall be designed for a uniformly distributed concurrent live load of not less than 10 pounds per square foot. h. Glazing used in handrail assemblies and guards shall be designed with a load adjustment factor of 4. The load adjustment factor shall be applied to each of the concentrated loads applied to the top of the rail, and to the load on the in-fill components. These loads shall be determined independent of one another, and loads are assumed not to occur with any other live load. i. Where the top of a guard system is not required to serve as a handrail, the single concentrated load shall be applied at any point along the top, in the vertical downward direction and in the horizontal direction away from the walking surface. Where the top of a guard is also serving as the handrail, a single concentrated load shall be applied in any direction at any point along the top. Concentrated loads shall not be applied concurrently. j. Where structural tables in Section R507 only specify snow loads, the values corresponding to 70 psf snow loads shall be used.							TABLE R301.5 MINIMUM UNIFORMLY DISTRIBUTED LIVE LOADS (in pounds per square foot)			Use	Uniform Loads (psf)	Concentrated Load (lb)	Uninhabitable attics without storage ^b	10	-	Uninhabitable attics with limited storage ^{b, g}	20	-	Habitable attics and attics served with fixed stairs	30	-	Balconies (exterior) and decks ^g	60 ^j	-	Fire escapes	40	-	Guards	-	200 ^{h,i}	Guard in-fill components ^f	-	50 ^h	Handrail ^d	-	200 ^h	Passenger vehicle garages	50 ^a	2,000 ^a	Areas other than sleeping areas	40	-	Sleeping areas	30	-	Stairs	40 ^c	300 ^c
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51-51-0302	Fire Resistant Construction	R302.2.2	R302.2.2	2018 cycle added amendment to address new definition of Townhouse Unit (WSR 19-16-156) 2021 cycle modified to incorporate model code changes. (WSR 22-17-148)	Modify Existing Amendment		Proposal Needed, Incorporate Model Language																																										

WAC	Title or Subject	2021 IRC #	2024 IRC #	Rationale	2024 Staff Recommendation	2024 TAG Member Recommendation	Other Comments
	R302.2.2 Common walls. Common walls separating <i>townhouse units</i> shall be assigned a fire resistance rating in accordance with Item 1 or 2 and shall be rated for fire exposure from both sides. Common walls shall extend to and be tight against the exterior sheathing of the exterior walls, or the inside face of exterior walls without stud cavities, and the underside of the roof sheathing. The common wall shared by two <i>townhouse units</i> shall be constructed without openings plumbing or mechanical equipment, ducts or vents, other than water-filled fire sprinkler piping in the cavity of the common wall. Electrical installations shall be in accordance with Chapters 34 through 43 ; chapter 296-46B WAC, Electrical safety standards, administration, and installation . Penetrations of the membrane of common walls for electrical outlet boxes shall be in accordance with Section R302.4. 1. Where an automatic sprinkler system in accordance with Section P2904 is provided, the common wall shall be not less than a 1-hour fire-resistance-rated wall assembly tested in accordance with ASTM E119, UL 263 or Section 703.2.2 of the <i>International Building Code</i> . 2. Where an automatic sprinkler system in accordance with Section P2904 is not provided, the common wall shall be not less than a 2-hour fire-resistance-rated wall assembly tested in accordance with ASTM E119, UL 263 or Section 703.2.2 of the <i>International Building Code</i> . EXCEPTION: Common walls are permitted to extend to and be tight against the inside interior side of the exterior walls if the cavity between the end of the common wall and the exterior sheathing is filled with a minimum of 2-inch nominal thickness wood studs.						
	Fire Resistant Construction	R302.2.3	R302.2.3	2009 cycle added amendment. Specific rationale not included in CR document. (WSR 09-17-140) 2015 cycle added graphic to amendment for clarity. (WSR 15-16-086) 2018 cycle modified amendment to address new definition of Townhouse Unit (WSR 19-16-156)	Modify Existing Amendment		Proposal Needed, incorporate model code language. Is figure in wrong location or numbered incorrectly?
	R302.2.3 Continuity. The fire-resistance-rated wall or assembly separating <i>townhouse units</i> shall be continuous from the foundation to the underside of the roof sheathing, roof deck or slab. The fire-resistance rating shall extend the full length of the wall or assembly, including wall extensions through and separating attached enclosed <i>accessory structures</i> . Where a story extends beyond the exterior wall of a story below: 1. The fire-resistance-rated wall or assembly shall extend to the outside edge of the upper story (see Figure R302.2(1)); or 2. The underside of the exposed floor-ceiling assembly shall be protected as required for projections in Section R302 (see Figure R302.2(2)). 						
51-51-0302	Fire Resistant Construction	R302.2.4	R302.2.4	2018 cycle added amendment to address new definition of Townhouse Unit (WSR 19-16-156)	Repeal Existing Amendment		WAC language is identical to model code language in 2021. Suggest adoption of model language.

WAC	Title or Subject	2021 IRC #	2024 IRC #	Rationale	2024 Staff Recommendation	2024 TAG Member Recommendation	Other Comments
	Fire Resistant Construction	R302.3	R302.3	2018 cycle added amendment to addresses unit separation requirements and supporting construction requirements. (WSR 19-16-156)	Modify Existing Amendment		See Significant Change report Model Code language Completely replaced.
	R302.3 Two-family dwellings. Wall and floor/ceiling assemblies separating <i>dwelling units</i> in two-family dwellings shall be separated from each other by wall and floor assemblies having not less than a 1-hour fire-resistance rating where tested in accordance with ASTM E119, UL 263 or Section 703.2.2 of the International Building Code. Such separation shall be provided regardless of whether a lot line exists between the two dwelling units or not. Fire-resistance-rated floor/ceiling and wall assemblies shall extend to and be tight against the exterior wall, and wall assemblies shall extend from the foundation to the underside of the roof sheathing- constructed in accordance with Section R302.3.1 through R302.3.5. One accessory dwelling unit constructed within an existing <i>dwelling unit</i> need not be considered a separated dwelling unit in a two-family dwelling where all required smoke alarms, in the accessory dwelling unit and the primary dwelling unit, are interconnected in such a manner that the actuation of one alarm will activate all alarms in both the primary dwelling unit and the accessory dwelling unit. Exceptions: 1.—A fire-resistance rating of ½ hour shall be permitted in buildings equipped throughout with an automatic sprinkler system installed in accordance with Section P2904: 2.—Wall Assemblies need not extend through attic spaces where the ceiling is protected by 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 wall assembly separating the dwellings and the structural framing supporting the ceiling is protected by not less than ½-inch (12.7 mm) gypsum board or equivalent.						
	Fire Resistant Construction	R302.3.1	R302.3.1 / R302.3.2	2018 cycle added amendment to addresses unit separation requirements and supporting construction requirements. (WSR 19-16-156) 2021 cycle modified and adds an exception to further clarify when a two-family dwelling shall be determined and required to have a separation wall and when it may be exempt from the separation requirements. (WSR 22-17-148)	Keep Existing Amendment		See Significant Change report Model Code language added.
	R302.3.1 Separation. <i>Dwelling units</i> in two-family dwellings shall be separated from each other by wall and floor assemblies having not less than a 1-hour fire-resistance rating where tested in accordance with ASTM E119, UL 263 or Section 703.2.2 of the <i>International Building Code</i> . EXCEPTIONS: 1. A fire-resistance rating of 1/2 hour shall be permitted in buildings equipped throughout with an automatic sprinkler system installed in accordance with Section 2904. 2. Where an accessory dwelling unit is added within an existing single-family residence to create a two-family dwelling, fire-rated separation between the accessory dwelling unit and the primary dwelling unit is not required when all required smoke alarms are interconnected in such a manner that the actuation of one alarm will activate all alarms in both the primary dwelling unit and the accessory dwelling unit.						
51-51-0302	Fire Resistant Construction	R302.3.2	R302.3.3	2018 cycle added amendment to address unit separation requirements and supporting construction requirements. (WSR 19-16-156)	Repeal Existing Amendment		See Significant Change report Model Code language added.
	R302.3.2 Continuity. Fire-resistance-rated floor/ceiling and wall assemblies shall extend to and be tight against the <i>exterior wall</i> , and wall assemblies shall extend from the foundation to the underside of the roof sheathing. EXCEPTION: Wall assemblies need not extend through attic spaces where the ceiling is protected by 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 wall assembly separating the dwellings and the structural framing supporting the ceiling is protected by not less than 1/2-inch (12.7 mm) gypsum board or equivalent.						
	Fire Resistant Construction	R302.3.3	R302.3.4	Added in 2012 update to specify fire resistance rating for walls is determined based on exposure to the outside not both sides. (WSR 13-16-087) 2015 cycle removed an exception to the section when smoke alarms are interconnected. (WSR 15-16-086) 2018 cycle removed exception to section when sprinklers are installed to address unit separation requirements and supporting construction requirements.. (WSR 19-16-156)	Repeal Existing Amendment		See Significant Change report Model Code language added. Proposal Needed. New Language has same regulatory effect.

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WAC	Title or Subject	2021 IRC #	2024 IRC #	Rationale	2024 Staff Recommendation	2024 TAG Member Recommendation	Other Comments
51-51-0312	Guards and Window Fall Protection	R312.1.1	R321.1.1		Keep Existing Amendment		
	R312.1.1 Where required. <i>Guards</i> shall be provided for those portions of open-sided walking surfaces, including floors, mezzanines , lofts in accordance with Section R333 , stairs, ramps, and landings, that are located more than 30 inches (762 mm) measured vertically to the floor or <i>grade</i> below at any point within 36 inches (914 mm) horizontally to the edge of the open side. Insect screening shall not be considered as a <i>guard</i> .						
	Guards and Window Fall Protection	R312.1.2	R321.1.2		Keep Existing Amendment		
	R312.1.2 Height. Required <i>guards</i> at open-sided walking surfaces, including stairs, porches, balconies or landings, shall be not less than 36 inches (914 mm) in height as measured vertically above the adjacent walking surface or the line connecting the <i>nosings</i> . EXCEPTIONS: 1. <i>Guards</i> on the open sides of stairs shall have a height of not less than 34 inches (864 mm) measured vertically from a line connecting the <i>nosings</i>. 2. Where the top of the <i>guard</i> serves as a handrail on the open sides of stairs, the top of the <i>guard</i> shall be not less than 34 inches (864 mm) and not more than 38 inches (965 mm) as measured vertically from a line connecting the <i>nosings</i>. 3. In areas with ceiling heights of 7 feet (2134 mm) or less in lofts constructed in accordance with Section R333, guards shall not be less than 36 inches (914 mm) in height or one-half of the clear height from the loft floor to the loft ceiling, whichever is less.						
51-51-0313	Automatic Fire Sprinkler Systems	R313.1	R309.1		Keep Existing Amendment		
	R313.1 Townhouse automatic fire sprinkler systems. An automatic residential fire sprinkler system shall be installed in a townhouse unit townhouses . EXCEPTIONS: 1. An automatic residential fire sprinkler system shall not be required where additions or alterations are made to an existing townhouse unit townhouses that does do not have an automatic residential fire sprinkler system installed. 2. Townhouse buildings containing no more than four townhouse units.						
	Automatic Fire Sprinkler Systems	R313.1.1	R309.1.1		Keep Existing Amendment		
	R313.1.1 Design and installation. Automatic residential fire sprinkler systems for a townhouse unit townhouses shall be designed and installed in accordance with Section P2904 or NFPA 13D.						
	Automatic Fire Sprinkler Systems	R313.2	R309.2		Keep Existing Amendment		
	R313.2 One- and two-family dwellings automatic sprinkler systems. This section is not adopted. An Automatic sprinkler system shall be installed in one- and two-family dwellings. Exception: An automatic sprinkler system shall not be required for additions or alterations to existing buildings that are not already provided with a sprinkler system.						
51-51-0314	Smoke Alarms and Heat Detection	R314.1	R310.1		Keep Existing Amendment		
	R314.1 General. Smoke alarms, heat detectors, and heat alarms shall comply with NFPA 72 and this section.						
	Smoke Alarms and Heat Detection	R314.1.1	R310.1.1		Modify Existing Amendment		Proposal Needed. Incorporate Model Code language Change.
	R314.1.1 Listings. Smoke alarms shall be listed and labeled in accordance with UL 217. Heat detectors and heat alarms shall be listed and labeled for the intended application. Combination smoke and carbon monoxide alarms shall be listed and labeled in accordance with UL 217 and UL 2034.						
	Smoke Alarms and Heat Detection	R314.2	R310.2		Keep Existing Amendment		
	R314.2 Where required. Smoke alarms, heat detectors, and heat alarms shall be provided in accordance with this section.						
	Smoke Alarms and Heat Detection	R314.2.1	R310.2.1		Keep Existing Amendment		
	R314.2.1 New construction. Smoke alarms shall be provided in <i>dwelling units</i> . A heat detector or heat alarm shall be provided in new attached garages.						
	Smoke Alarms and Heat Detection	R314.2.2	R310.2.2		Keep Existing Amendment		
	R314.2.2 Alterations, repairs and additions. Where <i>alterations, repairs</i> or <i>additions</i> requiring a permit occur, or where one or more sleeping rooms are added or created in existing dwellings, or where an accessory dwelling unit is created within an existing dwelling unit, each the individual dwelling unit shall be equipped with smoke alarms as required for new dwellings. EXCEPTIONS: 1. Work involving the exterior surfaces of dwellings, such as the replacement of roofing or siding, the addition or replacement of windows or doors, or the addition of a porch or deck are exempt from the requirements of this section. 2. Installation, <i>alteration</i> or repairs of plumbing, electrical or mechanical systems are exempt from the requirements of this section.						
	Smoke Alarms and Heat Detection	R314.2.3	NA		Keep Existing Amendment		Target Location R310.2.3

Commented [DC2]: Not a model code language change. Suggestion for inclusion of new model language for amendment language.

WAC	Title or Subject	2021 IRC #	2024 IRC #	Rationale	2024 Staff Recommendation	2024 TAG Member Recommendation	Other Comments
	R314.2.3 New attached garages. A heat detector or heat alarm rated for the ambient outdoor temperatures and humidity shall be installed in new garages that are attached to or located under new and existing dwellings. Heat detectors and heat alarms shall be installed in a central location and in accordance with the manufacturer's instructions. EXCEPTION: Heat detectors and heat alarms shall not be required in dwellings without commercial power.						
	Smoke Alarms and Heat Detection	R314.3	R310.3		Modify Existing Amendment		Proposal Needed. Incorporate Model Language Change.
	R314.3 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 but not including crawl spaces and uninhabitable attics. In dwellings or 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. Smoke alarms shall be installed 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 Section R314.3. 5. In napping areas in a family home child care. 6. 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. 7. Within the room to which a sleeping loft is open, in the immediate vicinity of the sleeping loft.						
	Smoke Alarms and Heat Detection	R314.4	R310.4		Keep Existing Amendment		
	R314.4 Interconnection. Where more than one smoke alarm is required to be installed within an individual <i>dwelling unit</i> in accordance with Section R314.3, the alarm devices shall be interconnected in such a manner that the actuation of one alarm will activate all of the alarms in the individual <i>dwelling unit</i> . Where an accessory dwelling unit is created within an existing dwelling unit all required smoke alarms, in the accessory dwelling unit and the primary dwelling unit, shall be interconnected in such a manner that the actuation of one alarm will activate all alarms in both the primary dwelling unit and the accessory dwelling unit. Physical interconnection of smoke alarms shall not be required where listed wireless alarms are installed and all alarms sound upon activation of one alarm. EXCEPTION: Smoke alarms and alarms installed to satisfy Section R314.4.1 shall not be required to be interconnected to existing smoke alarms where such existing smoke alarms are not interconnected or where such new smoke alarm or alarm is not capable of being interconnected to the existing smoke alarms.						
	Smoke Alarms and Heat Detection	R314.4.1	NA		Keep Existing Amendment		Target Location R310.4.1
	R314.4.1 Heat detection interconnection. Heat detectors and heat alarms shall be connected to an alarm or a smoke alarm that is installed in the <i>dwelling</i> . Alarms and smoke alarms that are installed for this purpose shall be located in a hallway, room, or other location that will provide occupant notification.						
	Smoke Alarms and Heat Detection	R314.6	R310.6		Keep Existing Amendment		
	R314.6 Power source. Smoke alarms, heat alarms, and heat detectors shall receive their primary power from the building wiring where such wiring is served from a commercial source and, where primary power is interrupted, shall receive power from a battery. Wiring shall be permanent and without a disconnecting switch other than those required for overcurrent protection. EXCEPTIONS: 1. Smoke alarms shall be permitted to be battery operated where installed in buildings without commercial power. 2. Smoke alarms installed in accordance with Section R314.2.2 R310.2.2 shall be permitted to be battery powered.						
51-51-0315	Carbon Monoxide Alarms	R315.2	R311.2		Keep Existing Amendment		
	R315.2 Where required. Carbon monoxide alarms shall be provided in accordance with Sections R315.2.1 R311.2.1 and R315.2.2 R311.2.2 .						
	Carbon Monoxide Alarms	R315.2.1	R311.2.1		Keep Existing Amendment		
	R315.2.1 New construction. For new construction, an approved carbon monoxide alarms shall be installed outside of each separate sleeping area in the immediate vicinity of the bedrooms in dwelling units and on each level of the dwelling in accordance with the manufacturer's recommendation. Provided in dwelling units where either or both of the following conditions exist: 1.—The dwelling unit contains a fuel-fired appliance: 2.—The dwelling unit has an attached garage with an opening that communicates with the dwelling unit:						
	Carbon Monoxide Alarms	R315.2.2	R311.2.2		Keep Existing Amendment		

WAC	Title or Subject	2021 IRC #	2024 IRC #	Rationale	2024 Staff Recommendation	2024 TAG Member Recommendation	Other Comments
51-51-0328	Energy Storage Systems	R328.2	R330.2		Modify Existing Amendment		Proposal needed. Suggest adding “Energy Storage Systems” back to code section
	R328.2 Equipment listings. Energy Storage Systems (ESS) shall be <i>listed</i> and <i>labeled for residential use</i> in accordance with UL 9540. EXCEPTIONS: 1. Where approved, repurposed unlisted battery systems from electric vehicles are allowed to be installed outdoors or in detached sheds located not less than 5 feet (1524 mm) from exterior walls, property lines, and public ways. 2. Battery systems that are an integral part of an electric vehicle are allowed provided that the installation complies with Section 625.48 of NFPA 70. 3. Battery systems less than 1 kWh (3.6 megajoules)						
	Energy Storage Systems	R328.12	NA		Keep Existing Amendment		Target Location R330.12
	R328.12 Commissioning. ESS shall be commissioned as follows: 1. Verify that the system is installed in accordance with the approved plans and manufacturer's instructions and is operating properly. 2. Provide a copy of the manufacturer's installation, operation, maintenance, and decommissioning instructions provided with the <i>listed</i> system. 3. Provide a label on the installed system containing the contact information for the qualified maintenance and service providers.						
	Energy Storage Systems	R328.12.1	NA		Keep Existing Amendment		Target Location R330.12.1
	R328.12.1 Installation prior to closing. Where the system is installed in a one- or two-family dwelling or townhouse unit that is owned by the builder and has yet to be sold, commissioning shall be conducted as outlined in Section R328.12 R330.12 , and the builder shall then transfer the required information in Section R328.12 R330.12 to the homeowner when the property is transferred to the owner at the closing.						
51-51-0330	Adult Family Homes	R330.1	NA		Keep Existing Amendment		Target Section R333.1
	R330.1 General. This section shall apply to all newly constructed adult family homes and all existing single-family homes being converted to adult family homes. This section shall not apply to those adult family homes licensed by the state of Washington department of social and health services prior to July 1, 2001.						
	Adult Family Homes	R330.2	NA		Repeal Existing Amendment		Editorial. Maintaining a reserved status for the section is not required for the published code.
	R330.2 Reserved.						
	Adult Family Homes	R330.3	NA		Keep Existing Amendment		Target Section R333.2
	R330.3 Sleeping room classification. Each sleeping room in an adult family home shall be classified as: 1. Type S - Where the means of egress contains stairs, elevators, or platform lifts. 2. Type NS1 - Where one means of egress is at grade level or a ramp constructed in accordance with Section R330.9 R333.8 is provided. 3. Type NS2 - Where two means of egress are at grade level or ramps constructed in accordance with Section R330.9 R333.8 are provided.						
	Adult Family Homes	R330.4	NA		Keep Existing Amendment		Target Section R333.3
	R330.4 Types of locking devices and door activation. All bedroom and bathroom doors shall be openable from the outside when locked. Every closet shall be readily openable from the inside. Operable parts of door handles, pulls, latches, locks, and other devices installed in adult family homes shall be operable with one hand and shall not require tight grasping, pinching or twisting of the wrist. Pocket doors shall have graspable hardware available when in the closed or open position. The force required to activate operable parts shall be 5.0 pounds (22.2 N) maximum. Required exit doors shall have no additional locking devices. Required exit door hardware shall unlock inside and outside mechanisms when exiting the building allowing reentry into the adult family home without the use of a key, tool or special knowledge.						
	Adult Family Homes	R330.5	NA		Keep Existing Amendment		Target Section R333.4
	R330.5 Smoke and carbon monoxide alarm requirements. All adult family homes shall be equipped with smoke and carbon monoxide alarms installed as required in Sections R314 R310 and R315.1 R311.1 . Alarms shall be installed in such a manner so that the detection device warning is audible from all areas of the dwelling upon activation of a single alarm.						
	Adult Family Homes	R330.6	NA		Keep Existing Amendment		Target Section R333.5

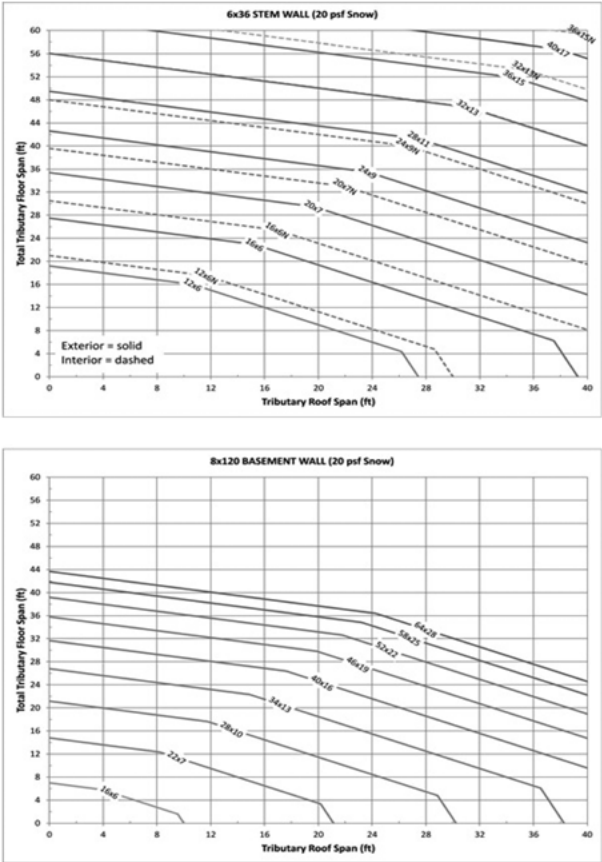
WAC	Title or Subject	2021 IRC #	2024 IRC #	Rationale	2024 Staff Recommendation	2024 TAG Member Recommendation	Other Comments
	R330.6 Escape windows and doors. Every sleeping room shall be provided with emergency escape and rescue windows as required by Section R310 R319 . No alternatives to the sill height such as steps, raised platforms or other devices placed by the openings will be approved as meeting this requirement.						
	Adult Family Homes	R330.7	NA		Keep Existing Amendment		Target Section R333.6
	R330.7 Fire apparatus access roads and water supply for fire protection. Adult family homes shall be served by fire apparatus access roads and water supplies meeting the requirements of the local jurisdiction.						
	Adult Family Homes	R330.8	NA		Keep Existing Amendment		Target Section R333.7
	R330.8 Grab bar general requirements. Where facilities are designated for use by adult family home clients, grab bars for water closets, bathtubs, and shower stalls shall be installed according to this section.						
	Adult Family Homes	R330.8.1	NA		Keep Existing Amendment		Target Section R333.7.1
	R330.8.1 Grab bar cross section. Grab bars with a circular cross section shall have an outside diameter of 1 1/4 inch (32 mm) minimum and 2 inches (50 mm) maximum. Grab bars with noncircular cross section shall have a cross section dimension of 2 inches (50 mm) maximum and a perimeter dimension of 4 inches (102 mm) minimum and 4 5/8 inches maximum.						
	Adult Family Homes	R330.8.2	NA		Keep Existing Amendment		Target Section R333.7.2
	R330.8.2 Grab bar installation. Grab bars shall have a spacing of 1 1/2 inch (32 mm) between the wall and the bar. Projecting objects, control valves and bathtub or shower stall enclosure features above, below and at the ends of the grab bar shall have a clear space of 1 1/2 inch (32 mm) to the grab bar. EXCEPTION: Swing-up grab bars shall not be required to meet the 1 1/2 inch (32 mm) spacing requirement. Grab bars shall have a structural strength of 250 pounds applied at any point on the grab bar, fastener, mounting device or supporting structural member. Grab bars shall not be supported directly by any residential grade fiberglass bathing or showering unit. Acrylic bars found in bathing units shall be removed. Fixed position grab bars, when mounted, shall not rotate, spin or move and have a graspable surface finish.						
	Adult Family Homes	R330.8.3	NA		Keep Existing Amendment		Target Section R333.7.3
	R330.8.3 Grab bars at water closets. Water closets shall have grab bars mounted on both sides. Grab bars can be a combination of fixed position and swing-up bars. Grab bars shall meet the requirements of Section R330.8 R333.7 . Grab bars shall mount between 33 inches (838 mm) and 36 inches (914 mm) above floor grade. Centerline distance between grab bars, regardless of type used, shall be between 25 inches (635 mm) minimum and 30 inches (762 mm) maximum.						
	Adult Family Homes	R330.8.3.1	NA		Keep Existing Amendment		Target Section R333.7.3.1
	R330.8.3.1 Fixed position grab bars. Fixed position grab bars shall be a minimum of 36 inches (914 mm) in length and start 12 inches (305 mm) from the rear wall.						
	Adult Family Homes	R330.8.3.2	NA		Keep Existing Amendment		Target Section R333.7.3.2
	R330.8.3.2 Swing-up grab bars. Swing-up grab bars shall be a minimum of 28 inches (711 mm) in length from the rear wall.						
	Adult Family Homes	R330.8.4	NA		Keep Existing Amendment		Target Section R333.7.4
	R330.8.4 Grab bars at bathtubs. Horizontal and vertical grab bars shall meet the requirements of Section R330.8 R333.7 .						
	Adult Family Homes	R330.8.4.1	NA		Keep Existing Amendment		Target Section R333.7.4.1
	R330.8.4.1 Vertical grab bars. Vertical grab bars shall be a minimum of 18 inches (457 mm) long and installed at the control end wall and head end wall. Grab bars shall mount within 4 inches (102 mm) of the exterior of the bathtub edge or within 4 inches (102 mm) within the bathtub. The bottom end of the bar shall start between 36 inches (914 mm) and 42 inches (1067 mm) above floor grade. EXCEPTION: The required vertical grab bar can be substituted with a floor to ceiling grab bar meeting the requirements of Section R325.8 at the control end and head end entry points.						
	Adult Family Homes	R330.8.4.2	NA		Keep Existing Amendment		Target Section R333.7.4.2
	R330.8.4.2 Horizontal grab bars. Horizontal grab bars shall be provided at the control end, head end, and the back wall within the bathtub area. Grab bars shall be mounted between 33 inches (838 mm) and 36 inches (914 mm) above floor grade. Control end and head end grab bars shall be 24 inches (610 mm) minimum in length. Back wall grab bars shall be 36 inches (914 mm) minimum in length.						
	Adult Family Homes	R330.8.5	NA		Keep Existing Amendment		Target Section R333.7.5

WAC	Title or Subject	2021 IRC #	2024 IRC #	Rationale	2024 Staff Recommendation	2024 TAG Member Recommendation	Other Comments
	R330.8.5 Grab bars at shower stalls. Where shower stalls are provided to meet the requirements for bathing facilities, grab bars shall meet the requirements of Section R330.8 R333.7. EXCEPTION: Shower stalls with permanent built-in seats are not required to have vertical or horizontal grab bars at the seat end wall. A vertical floor to ceiling grab bar shall be installed within 4 inches of the exterior of the shower aligned with the nose of the built-in seat.						
	Adult Family Homes	R330.8.5.1	NA		Keep Existing Amendment		Target Section R333.7.5.1
	R330.8.5.1 Vertical grab bars. Vertical grab bars shall be 18 inches (457 mm) minimum in length and installed at the control end wall and head end wall. Vertical bars shall be mounted within 4 inches (102 mm) of the exterior of the shower stall or within 4 inches (102 mm) inside the shower stall. The bottom end of vertical bars mount between 36 inches (914 mm) and 42 inches (1067 mm) above floor grade.						
	Adult Family Homes	R330.8.5.2	NA		Keep Existing Amendment		Target Section R333.7.5.2
	R330.8.5.2 Horizontal grab bars. Horizontal grab bars shall be installed on all sides of the shower stall mounted between 33 inches (838 mm) and 36 inches (914 mm) above the floor grade. Horizontal grab bars shall be a maximum of 6 inches (152 mm) from adjacent walls. Horizontal grab bars shall not interfere with shower control valves.						
	Adult Family Homes	R330.9	NA		Keep Existing Amendment		Target Section R333.8
	R330.9 Ramps. All interior and exterior ramps, when provided, shall be constructed in accordance with Section R311.8 R318.8 with a maximum slope of 1 vertical to 12 horizontal. The exception to Section R311.8.1 is not allowed for adult family homes. Handrails shall be installed in accordance with Section R330.9.1.						
	Adult Family Homes	R330.9.1	NA		Keep Existing Amendment		Target Section R333.8.1
	R330.9.1 Handrails for ramps. Handrails shall be installed on both sides of ramps between the slope of 1 vertical to 12 horizontal and 1 vertical and 20 horizontal in accordance with Sections R311.8.3.1 R318.8.3.1 through R311.8.3.3 R318.8.3.3.						
	Adult Family Homes	R330.10	NA		Keep Existing Amendment		Target Section R333.9
	R330.10 Stair treads and risers. Stair treads and risers shall be constructed in accordance with Section R311.7.5 R318.7.5. Handrails shall be installed in accordance with Section R330.10.1.						
	Adult Family Homes	R330.10.1	NA		Keep Existing Amendment		Target Section R333.9.1
	R330.10.1 Handrails for treads and risers. Handrails shall be installed on both sides of treads and risers numbering from one riser to multiple risers. Handrails shall be installed in accordance with Sections R311.7.8.1 R318.7.8.1 through R311.7.8.4 R318.7.8.4.						
	Adult Family Homes	R330.11	NA		Keep Existing Amendment		Target Section R333.10
	R330.11 Shower stalls. Where provided to meet the requirements for bathing facilities, the minimum size of shower stalls for an adult family home shall be 30 inches (762 mm) deep by 48 inches (1219 mm) long.						
51-51-0331	Family Home Child Care	R331.1	NA		Keep Existing Amendment		Target Section R334.1

WAC	Title or Subject	2021 IRC #	2024 IRC #	Rationale	2024 Staff Recommendation	2024 TAG Member Recommendation	Other Comments
	Section R331—Family home child care. R331.1 Family home child care. For family home child care with more than six children, each floor level used for family child care purposes shall be served by two remote means of egress. Exterior exit doors shall be operable from the inside without the use of keys or any special knowledge or effort. Basements located more than 4 feet below grade level shall not be used for family home child care unless one of following conditions exist: 1. Stairways from the basement open directly to the exterior of the building without entering the first floor; 2. One of the two required means of egress discharges directly to the exterior from the basement level, and a self-closing door is installed at the top or bottom of the interior stair leading to the floor above; 3. One of the two required means of egress is an operable window or door, approved for emergency escape or rescue, that opens directly to a public street, public alley, yard or exit court; or 4. An automatic residential sprinkler system shall be designed and installed in accordance with Section P2904 or NFPA 13D. Floors located more than 4 feet above grade level shall not be occupied by children in family home child care. EXCEPTION: 1. Use of toilet facilities while under supervision of an adult staff person; 2. Family home child care may be allowed on the second story if one of the following conditions exists: 2.1. Stairways from the second story open directly to the exterior of the building without entering the first floor; 2.2. One of the two required means of egress discharges directly to the exterior from the second story level, and a self-closing door is installed at the top or bottom of the interior stair leading to the floor below; or 2.3. An automatic residential sprinkler system shall be designed and installed in accordance with Section P2904 or NFPA 13D. Every sleeping or napping room in a family home child care shall have at least one operable window for emergency rescue. EXCEPTION: Sleeping or napping rooms having doors leading to two separate means of egress, or a door leading directly to the exterior of the building. Smoke alarms shall be installed in accordance with the requirements of new construction per Section R314 R310. In addition to the required smoke alarms, a heat alarm shall be provided in each kitchen.						
	Family Home Child Care	R331.2	NA		Keep Existing Amendment		Target Section R334.2
	R331.2 Additional requirements for family home child care with thirteen to sixteen children. In addition to the requirements of Section 331.1 R334.1 the provisions of this section shall apply to <i>family home child care</i> with thirteen to sixteen children.						
	Family Home Child Care	R331.2.1	NA		Keep Existing Amendment		Target Section R334.2.1
	R331.2.1 Illumination in the event of power failure. In addition to illumination requirements of Section R311.7.9 R318.7.10 , an artificial light source that activates upon termination of building power supply shall be installed at all interior stairs serving child care areas.						
	Family Home Child Care	R331.2.2	NA		Keep Existing Amendment		Target Section R334.2.2
	R331.2.2 Exterior exit doors serving child care areas. Exterior exit doors serving child care areas shall comply with the requirements of Sections R311.2 R318.2 and R311.3 R318.3 .						
	Family Home Child Care	R331.3	NA		Keep Existing Amendment		Target Section R334.3
	R331.3 Sprinklers. An automatic residential sprinkler system shall be designed and installed in accordance with Section P2904 or NFPA 13D. EXCEPTION: Subject to approval of the <i>code official</i>, a sprinkler system is not required where all of the following conditions are met: 1. Child care areas are located on a floor within 4 feet of grade level; 2. Each room used for child care shall have a door compliant with Section R311.2 R318.2 and R311.3 R318.3, leading directly to the exterior of the building. The exterior landing at the door shall comply with Section R311.3 R318.3 but need not comply with Section R311.3.1 R318.3.1.						
51-51-0332	Protection Against Radon	R332.1	NA		Keep Existing Amendment		Target Section R335.1
	Section R332—Protection against radon. R332.1 Protection against radon. The radon control provisions of Appendix F of this code shall apply to buildings constructed in high radon potential counties (zone 1) designated in Table AFB E101(1). The radon control provisions of Appendix F BE of this code shall also apply to all buildings constructed using the provisions of Section R408.3 Unvented crawl space compliance method.						
51-51-0333	Lofts	R333.1	R315.1		Repeal Existing Amendment		Proposal Needed. See Significant Change report. New Language added to model code.

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WAC	Title or Subject	2021 IRC #	2024 IRC #	Rationale	2024 Staff Recommendation	2024 TAG Member Recommendation	Other Comments
51-51-0403	Footings	R403.1.1	R403.1.1		Modify Existing Amendment		Proposal Needed. Incorporate Model Language Change
	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. 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. The size of footings supporting piers and columns shall be based on the tributary load and allowable soil pressure in accordance with Table R401.4.1. Footings for wood foundations shall be in accordance with the details set forth in Section R403.2, and Figures R403.1(2) and R403.1(3). Footings for precast foundation 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. EXCEPTION: Light-frame construction shall be permitted to have minimum footing size in accordance with Figures R403.1.1(1) through R403.1.1(4) in lieu of that determined by Table R403.1(1).						
	Footings	F R403.1.1(1)	F R403.1.1(1)		Keep Existing Amendment		

WAC	Title or Subject	2021 IRC #	2024 IRC #	Rationale	2024 Staff Recommendation	2024 TAG Member Recommendation	Other Comments								
	Figure R403.1.1(1) Alternative Minimum Footing Size for Light-Frame Construction a,b,c,d,e,f,g,h,i 20 PSF Snow Load  Notes: a. The minimum footing size is based on the following assumptions: Material weights per Section R301.2.2.2.1 and soil density = 120 pcf. Wood-framed walls = 10 foot; crawlspace stem wall = 6 inches x 36 inches; basement wall = 8 inches x 120 inches. Total load (TL) equal to the maximum of three load combinations: LC1=D+L, LC2=D+S and LC3=D=0.75(L+S), where D=dead load, L=live load, S=snow load. TL=max (LC1, LC2, LC3). b. Use tributary span of floor and roof. Figure may be used to size exterior and interior footings. c. Add 4 feet to tributary floor span for each wood-framed wall above first level (i.e., 4 feet for 2-story, 8 feet for 3-story) d. Multiply floor span by 1.25 for interior footings supporting continuous joists. e. Multiply footing width by (1500 psf/capacity) for soil capacity other than 1500 psf. See Section R403.1.1 for thickness. f. Dashed line may be used for interior footing size only. g. Use footing size indicated on line above the span combination used. h. For span combinations above the upper line, a design professional is required. i. Interpolation between footing sizes is allowed. Extrapolation is not allowed. <tr><td></td><td>Footings</td><td>F R403.1.1(2)</td><td>F R403.1.1(2)</td><td></td><td>Keep Existing Amendment</td><td></td><td></td></tr>								Footings	F R403.1.1(2)	F R403.1.1(2)		Keep Existing Amendment		
	Footings	F R403.1.1(2)	F R403.1.1(2)		Keep Existing Amendment										

WAC	Title or Subject	2021 IRC #	2024 IRC #	Rationale	2024 Staff Recommendation	2024 TAG Member Recommendation	Other Comments
	Figure R403.1.1(2) Alternative Minimum Footing Size for Light-Frame Construction a,b,c,d,e,f,g,h,i 30 PSF Snow Load Notes: a. The minimum footing size is based on the following assumptions: Material weights per Section R301.2.2.2.1 and soil density = 120 pcf. Wood-framed walls = 10 foot; crawlspace stem wall = 6 inches × 36 inches; basement wall = 8 inches × 120 inches. Total load (TL) equal to the maximum of three load combinations: LC1=D+L, LC2=D+S and LC3=D=0.75(L+S), where D=dead load, L=live load, S=snow load. TL=max (LC1, LC2, LC3). b. Use tributary span of floor and roof. Figure may be used to size exterior and interior footings. c. Add 4 feet to tributary floor span for each wood-framed wall above first level (i.e., 4 feet for 2-story, 8 feet for 3-story). d. Multiply floor span by 1.25 for interior footings supporting continuous joists. e. Multiply footing width by (1500 psf/capacity) for soil capacity other than 1500 psf. See Section R403.1.1 for thickness. f. Dashed line may be used for interior footing size only. g. Use footing size indicated on line above the span combination used. h. For span combinations above the upper line, a design professional is required. i. Interpolation between footing sizes is allowed. Extrapolation is not allowed.						
	Footings	F R403.1.1(3)	F R403.1.1(3)		Keep Existing Amendment		

WAC	Title or Subject	2021 IRC #	2024 IRC #	Rationale	2024 Staff Recommendation	2024 TAG Member Recommendation	Other Comments
	Figure R403.1.1(3) Alternative Minimum Footing Size for Light-Frame Construction a,b,c,d,e,f,g,h,i 50 PSF Snow Load Notes: a. The minimum footing size is based on the following assumptions: Material weights per Section R301.2.2.2.1 and soil density = 120 pcf. Wood-framed walls = 10 foot; crawlspace stem wall = 6 inches × 36 inches; basement wall = 8 inches × 120 inches. Total load (TL) equal to the maximum of three load combinations: LC1=D+L, LC2=D+S and LC3=D=0.75(L+S), where D=dead load, L=live load, S=snow load. TL=max (LC1, LC2, LC3). b. Use tributary span of floor and roof. Figure may be used to size exterior and interior footings. c. Add 4 feet to tributary floor span for each wood-framed wall above first level (i.e., 4 feet for 2-story, 8 feet for 3-story). d. Multiply floor span by 1.25 for interior footings supporting continuous joists. e. Multiply footing width by (1500 psf/capacity) for soil capacity other than 1500 psf. See Section R403.1.1 for thickness. f. Dashed line may be used for interior footing size only. g. Use footing size indicated on line above the span combination used. h. For span combinations above the upper line, a design professional is required. i. Interpolation between footing sizes is allowed. Extrapolation is not allowed.						
	Footings	F R403.1.1(4)	F R403.1.1(4)		Keep Existing Amendment		

WAC	Title or Subject	2021 IRC #	2024 IRC #	Rationale	2024 Staff Recommendation	2024 TAG Member Recommendation	Other Comments
	Figure R403.1.1(4) Alternative Minimum Footing Size for Light-Frame Construction a,b,c,d,e,f,g,h,i 70 PSF Snow Load Notes: a. The minimum footing size is based on the following assumptions: Material weights per Section R301.2.2.2.1 and soil density = 120 pcf. Wood-framed walls = 10 foot; crawlspace stem wall = 6 inches × 36 inches; basement wall = 8 inches × 120 inches. Total load (TL) equal to the maximum of three load combinations: LC1=D+L, LC2=D+S and LC3=D=0.75(L+S), where D=dead load, L=live load, S=snow load. TL=max (LC1, LC2, LC3). b. Use tributary span of floor and roof. Figure may be used to size exterior and interior footings. c. Add 4 feet to tributary floor span for each wood-framed wall above first level (i.e., 4 feet for 2-story, 8 feet for 3-story). d. Multiply floor span by 1.25 for interior footings supporting continuous joists. e. Multiply footing width by (1500 psf/capacity) for soil capacity other than 1500 psf. See Section R403.1.1 for thickness. f. Dashed line may be used for interior footing size only. g. Use footing size indicated on line above the span combination used. h. For span combinations above the upper line, a design professional is required. i. Interpolation between footing sizes is allowed. Extrapolation is not allowed.						
51-51-0408	Under Floor Space	R408.1	R408.1		Keep Existing Amendment		
R408.1 Ventilation Moisture Control. The under-floor space between the bottom of the floor joists and the earth under any building (except space occupied by a basement) shall have ventilation openings through foundation walls or exterior walls. A ground cover of six mil (0.006 inch thick) black polyethylene or approved equal shall be laid over the ground within crawl spaces. The ground cover shall be overlapped 6 inches (152 mm) minimum at the joints and shall extend to the foundation wall. comply with R408.2 or R408.3 EXCEPTION: The ground cover may be omitted in crawl spaces if the crawl space has a concrete slab floor with a minimum thickness of 2 inches (51 mm).							
	Under Floor Space	R408.2	R408.2		Keep Existing Amendment		

WAC	Title or Subject	2021 IRC #	2024 IRC #	Rationale	2024 Staff Recommendation	2024 TAG Member Recommendation	Other Comments
	R408.2 Openings for under-floor ventilation. Ventilation openings through foundations or exterior walls surrounding the under-floor space shall be provided in accordance with this section. The minimum net area of ventilation openings shall be not be less than 1 square foot (0.0929 m²) for each 300-150 square feet (28 14m²) of under-floor area. Required openings shall be evenly placed to provide cross ventilation of the space except one side of the building shall be permitted to have no ventilation openings. One ventilation opening shall be within 3 feet (915 mm) of each external corner of the under-floor space. Ventilation openings shall be covered for their height and width with any of the following materials provided that the least dimension of the covering shall not exceed 1/4 inch (6.4 mm), and operational louvers are permitted: 1. Perforated sheet metal plates not less than 0.070 inch (1.8 mm) thick. 2. Expanded sheet metal plates not less than 0.047 inch (1.2 mm) thick. 3. Cast-iron grill or grating. 4. Extruded load-bearing brick vents. 5. Hardware cloth of 0.035 inch (0.89 mm) wire or heavier. 6. Corrosion-resistant wire mesh, with the least dimension being 1/8 inch (3.2 mm). EXCEPTION: 1. The total area of ventilation openings shall be permitted to be reduced to 1/1,500 of the under-floor area where the ground surface is covered with an approved Class I vapor retarder material and the required openings are placed to provide cross ventilation of the space. The installation of operable louvers shall not be prohibited. If the installed ventilation is less than 1/300, or if operable louvers are installed, a radon vent shall be installed to originate from a point between the ground cover and soil. The radon vent shall be installed in accordance with the requirements of Appendix AF BE (Radon) of this code. 2.—Where the ground surface is covered with an approved Class 1 vapor retarder material, ventilation openings are not required to be within 3 feet (915 mm) of each external corner of the under-floor space provided that the openings are placed to provide cross ventilation of the space.						
	Under Floor Space	R408.3	R408.3		Keep Existing Amendment		
	R408.3 Unvented crawl space. Ventilation openings in for unvented under-floor spaces specified in Section R408.2 the following shall not be required where be provided: 1. Exposed earth is shall be covered with a continuous Class I vapor retarder. Joints of the vapor retarder shall overlap by 6 inches (152 mm) and shall be sealed or taped. The edges of the vapor retarder shall extend at least not less than 6 inches (152 mm) up the stem wall and shall be attached and sealed to the stem wall or insulation; and a radon system shall be installed that meets the requirements of Appendix AF BE (Radon) of this code. 2. One of the following shall be provided for the underfloor space: 2. 2.4Continuously operated mechanical exhaust ventilation is provided at a rate equal to 1 cubic foot per minute (0.47 L/s) for each 50 square feet (4.7 m2) of crawlspace floor area including an air pathway to the common area (such as a duct or transfer grille); and perimeter walls insulated in accordance with Section N1102.2.10.1 of this code. Exhaust ventilation shall terminate to the exterior. EXCEPTION: Plenum in existing structures complying with Section M1601.5, if under-floor space is used as a plenum. 2.2—Conditioned air supply sized to deliver at a rate equal to 1 cubic foot per minute (0.47 L/s) for each 50 square feet (4.7 m²) of underfloor area, including a return pathway to the common area (such as a duct or transfer grille); and perimeter walls insulated in accordance with N1102.2.10.1 of this code. 2.3—Plenum in existing structures complying with Section M1601.5, if under-floor space is used as a plenum. 2.4—Dehumidification sized in accordance with manufacturers specifications.						
	Under Floor Space	R408.8	R408.8		Keep Existing Amendment		
	R408.8 Under-floor vapor retarder. This section is not adopted. In Climate Zones 1A, 2A and 3A below the warm-humid line, a continuous Class I or II vapor retarder shall be provided on the exposed face of air-permeable insulation installed between the floor joists and exposed to the grade in the under-floor space. The vapor retarder shall have a maximum water vapor permeance of 1.5 perms when tested in accordance with Procedure B of ASTM E96. Exception: The vapor retarder shall not be required in unvented crawl spaces constructed in accordance with Section R408.3						
CHAPTER 5 FLOORS (Part III Building Planning and Construction)							
51-51-0507	Exterior Decks	T R507.3.1	T R507.3.1		Keep Existing Amendment		

WAC	Title or Subject	2021 IRC #	2024 IRC #	Rationale	2024 Staff Recommendation	2024 TAG Member Recommendation	Other Comments																																																																																																																													
	TABLE R507.3.1 MINIMUM FOOTING SIZE FOR DECKS <table><tr><th rowspan="3">LIVE OR GROUND SNOW LOAD (psf)</th><th rowspan="3">TRIBUTARY AREA (sq.ft.)</th><th colspan="9">LOAD-BEARING VALUE OF SOILS^acd (psf)</th></tr><tr><th colspan="3">1500e</th><th colspan="3">2000e</th><th colspan="3">≥ 3000e</th></tr><tr><th>Side of a square footing (inches)</th><th>Diameter of a round footing (inches)</th><th>Thickness^f (inches)</th><th>Side of a square footing (inches)</th><th>Diameter of a round footing (inches)</th><th>Thickness^f (inches)</th><th>Side of a square footing (inches)</th><th>Diameter of a round footing (inches)</th><th>Thickness^f (inches)</th></tr><tr><td rowspan="8">60 Live or 70 Ground Snow Load</td><td>5</td><td>7</td><td>8</td><td>6</td><td>7</td><td>8</td><td>6</td><td>7</td><td>8</td><td>6</td></tr><tr><td>20</td><td>12</td><td>14</td><td>6</td><td>11</td><td>13</td><td>6</td><td>9</td><td>10</td><td>6</td></tr><tr><td>40</td><td>18</td><td>20</td><td>6</td><td>15</td><td>17</td><td>6</td><td>12</td><td>14</td><td>6</td></tr><tr><td>60</td><td>21</td><td>24</td><td>8</td><td>19</td><td>21</td><td>6</td><td>15</td><td>17</td><td>6</td></tr><tr><td>80</td><td>25</td><td>28</td><td>9</td><td>21</td><td>24</td><td>8</td><td>18</td><td>20</td><td>6</td></tr><tr><td>100</td><td>28</td><td>31</td><td>11</td><td>24</td><td>27</td><td>9</td><td>20</td><td>22</td><td>7</td></tr><tr><td>120</td><td>30</td><td>34</td><td>12</td><td>26</td><td>30</td><td>10</td><td>21</td><td>24</td><td>8</td></tr><tr><td>140</td><td>33</td><td>37</td><td>13</td><td>28</td><td>32</td><td>11</td><td>23</td><td>26</td><td>9</td></tr><tr><td>160</td><td>35</td><td>40</td><td>15</td><td>30</td><td>34</td><td>12</td><td>25</td><td>28</td><td>9</td></tr></table> For SI: 1 inch = 25.4 mm, 1 square foot = 0.0929 m2, 1 pound per square foot = 0.0479 kPa. a. Interpolation permitted, extrapolation not permitted. b. Reserved. c. Footing dimensions shall allow complete bearing of the post. d. If the support is a brick or CMU pier, the footing shall have a minimum 2-inch projection on all sides. e. Area, in square feet, of deck surface supported by post and footings. f. Minimum thickness shall only apply to plain concrete footings,							LIVE OR GROUND SNOW LOAD (psf)	TRIBUTARY AREA (sq.ft.)	LOAD-BEARING VALUE OF SOILS ^a cd (psf)									1500e			2000e			≥ 3000e			Side of a square footing (inches)	Diameter of a round footing (inches)	Thickness ^f (inches)	Side of a square footing (inches)	Diameter of a round footing (inches)	Thickness ^f (inches)	Side of a square footing (inches)	Diameter of a round footing (inches)	Thickness ^f (inches)	60 Live or 70 Ground Snow Load	5	7	8	6	7	8	6	7	8	6	20	12	14	6	11	13	6	9	10	6	40	18	20	6	15	17	6	12	14	6	60	21	24	8	19	21	6	15	17	6	80	25	28	9	21	24	8	18	20	6	100	28	31	11	24	27	9	20	22	7	120	30	34	12	26	30	10	21	24	8	140	33	37	13	28	32	11	23	26	9	160	35	40	15	30	34	12	25	28	9					
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160	35	40	15	30	34	12	25	28	9																																																																																																																											
	Exterior Decks	R507.4	R507.4		Repeal Existing Amendment		Proposal Needed. Same as model code language.																																																																																																																													
	R507.4 Deck posts. For single-level decks, wood post size shall be in accordance with Table R507.4.																																																																																																																																			
	Exterior Decks	T R507.4	T R507.4																																																																																																																																	

WAC	Title or Subject	2021 IRC #	2024 IRC #	Rationale	2024 Staff Recommendation	2024 TAG Member Recommendation	Other Comments																																																																																																																																																																																						
	TABLE R507.4 DECK POST HEIGHT <table><tr><th rowspan="3">LOADS^b (psf)</th><th rowspan="3">POST SPECIES^c</th><th rowspan="3">POST SIZE^d</th><th colspan="8">TRIBUTARY AREA^{g,h} (sq. ft.)</th></tr><tr><th>20</th><th>40</th><th>60</th><th>80</th><th>100</th><th>120</th><th>140</th><th>160</th></tr><tr><th colspan="8">MAXIMUM DECK POST HEIGHT^a (feet-inches)</th></tr><tr><td rowspan="8">60 Live Load, ≤60 Ground Snow Load</td><td rowspan="4">Douglas Fire, Hem-fire, SPFe</td><td>4 x 4</td><td>14-0</td><td>10-10</td><td>8-7</td><td>7-0</td><td>5-8</td><td>4-1</td><td>NP</td><td>NP</td></tr><tr><td>4 x 6</td><td>14-0</td><td>13-10</td><td>11-1</td><td>9-5</td><td>8-2</td><td>7-3</td><td>6-4</td><td>5-4</td></tr><tr><td>6 x 6</td><td>14-0</td><td>14-0</td><td>14-0</td><td>14-0</td><td>14-0</td><td>13-3</td><td>10-9</td><td>6-11</td></tr><tr><td>8 x 8</td><td>14-0</td><td>14-0</td><td>14-0</td><td>14-0</td><td>14-0</td><td>14-0</td><td>14-0</td><td>14-0</td></tr><tr><td rowspan="4">Redwoodf, Western Cedarsf, Ponderosa Pinef, Red Pinef</td><td>4 x 4</td><td>14-0</td><td>10-3</td><td>7-0</td><td>NP</td><td>NP</td><td>NP</td><td>NP</td><td>NP</td></tr><tr><td>4 x 6</td><td>14-0</td><td>13-6</td><td>10-6</td><td>8-4</td><td>5-10</td><td>NP</td><td>NP</td><td>NP</td></tr><tr><td>6 x 6</td><td>14-0</td><td>14-0</td><td>14-0</td><td>14-0</td><td>11-11</td><td>NP</td><td>NP</td><td>NP</td></tr><tr><td>8 x 8</td><td>14-0</td><td>14-0</td><td>14-0</td><td>14-0</td><td>14-0</td><td>14-0</td><td>14-0</td><td>14-0</td></tr><tr><td rowspan="8">70 Ground Snow Load</td><td rowspan="4">Douglas Fire, Hem-fire, SPFe</td><td>4 x 4</td><td>14-0</td><td>10-1</td><td>7-11</td><td>6-6</td><td>5-3</td><td>3-7</td><td>NP</td><td>NP</td></tr><tr><td>4 x 6</td><td>14-0</td><td>12-10</td><td>10-3</td><td>8-9</td><td>7-7</td><td>6-8</td><td>5-10</td><td>4-11</td></tr><tr><td>6 x 6</td><td>14-0</td><td>14-0</td><td>14-0</td><td>14-0</td><td>14-0</td><td>12-2</td><td>9-9</td><td>5-9</td></tr><tr><td>8 x 8</td><td>14-0</td><td>14-0</td><td>14-0</td><td>14-0</td><td>14-0</td><td>14-0</td><td>14-0</td><td>14-0</td></tr><tr><td rowspan="4">Redwoodf, Western Cedarsf, Ponderosa Pinef, Red Pinef</td><td>4 x 4</td><td>14-0</td><td>9-5</td><td>6-5</td><td>NP</td><td>NP</td><td>NP</td><td>NP</td><td>NP</td></tr><tr><td>4 x 6</td><td>14-0</td><td>12-6</td><td>9-8</td><td>7-7</td><td>5-3</td><td>NP</td><td>NP</td><td>NP</td></tr><tr><td>6 x 6</td><td>14-0</td><td>14-0</td><td>14-0</td><td>14-0</td><td>10-8</td><td>NP</td><td>NP</td><td>NP</td></tr><tr><td>8 x 8</td><td>14-0</td><td>14-0</td><td>14-0</td><td>14-0</td><td>14-0</td><td>14-0</td><td>14-0</td><td>14-0</td></tr></table> For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 square foot = 0.0929 m2, 1 pound per square foot = 0.0479 kPa, NP = Not permitted. a. Measured from the underside of the beam to top of footing or pier. b. 10 psf dead load. Snow load not assumed to be concurrent with live load. c. No. 2 grade, wet service factor included. d. Notched deck posts shall be sized to accommodate beam size in accordance with Section R507.5.2. e. Includes incising factor. f. Incising factor not included. g. Area, in square feet, of deck surface supported by post and footing. h. Interpolation permitted. Extrapolation not permitted.							LOADS ^b (psf)	POST SPECIES ^c	POST SIZE ^d	TRIBUTARY AREA ^{g,h} (sq. ft.)								20	40	60	80	100	120	140	160	MAXIMUM DECK POST HEIGHT ^a (feet-inches)								60 Live Load, ≤60 Ground Snow Load	Douglas Fire, Hem-fire, SPFe	4 x 4	14-0	10-10	8-7	7-0	5-8	4-1	NP	NP	4 x 6	14-0	13-10	11-1	9-5	8-2	7-3	6-4	5-4	6 x 6	14-0	14-0	14-0	14-0	14-0	13-3	10-9	6-11	8 x 8	14-0	14-0	14-0	14-0	14-0	14-0	14-0	14-0	Redwoodf, Western Cedarsf, Ponderosa Pinef, Red Pinef	4 x 4	14-0	10-3	7-0	NP	NP	NP	NP	NP	4 x 6	14-0	13-6	10-6	8-4	5-10	NP	NP	NP	6 x 6	14-0	14-0	14-0	14-0	11-11	NP	NP	NP	8 x 8	14-0	14-0	14-0	14-0	14-0	14-0	14-0	14-0	70 Ground Snow Load	Douglas Fire, Hem-fire, SPFe	4 x 4	14-0	10-1	7-11	6-6	5-3	3-7	NP	NP	4 x 6	14-0	12-10	10-3	8-9	7-7	6-8	5-10	4-11	6 x 6	14-0	14-0	14-0	14-0	14-0	12-2	9-9	5-9	8 x 8	14-0	14-0	14-0	14-0	14-0	14-0	14-0	14-0	Redwoodf, Western Cedarsf, Ponderosa Pinef, Red Pinef	4 x 4	14-0	9-5	6-5	NP	NP	NP	NP	NP	4 x 6	14-0	12-6	9-8	7-7	5-3	NP	NP	NP	6 x 6	14-0	14-0	14-0	14-0	10-8	NP	NP	NP	8 x 8	14-0	14-0	14-0	14-0	14-0	14-0	14-0	14-0					
LOADS ^b (psf)	POST SPECIES ^c	POST SIZE ^d	TRIBUTARY AREA ^{g,h} (sq. ft.)																																																																																																																																																																																										
			20	40	60	80	100				120	140	160																																																																																																																																																																																
			MAXIMUM DECK POST HEIGHT ^a (feet-inches)																																																																																																																																																																																										
60 Live Load, ≤60 Ground Snow Load	Douglas Fire, Hem-fire, SPFe	4 x 4	14-0	10-10	8-7	7-0	5-8	4-1	NP	NP																																																																																																																																																																																			
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70 Ground Snow Load	Douglas Fire, Hem-fire, SPFe	4 x 4	14-0	10-1	7-11	6-6	5-3	3-7	NP	NP																																																																																																																																																																																			
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	Exterior Decks	R507.5	R507.5		Modify Existing Amendment		Proposal Needed. Incorporate New Model Language + Suggest breaking tables not adopted into individual lines																																																																																																																																																																																						
	R507.5 Deck beams. Maximum allowable spans for wood deck beams, as shown in Figure R507.5, shall be in accordance with Table R507.5 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. Beams shall be permitted to cantilever at each end up to one-fourth of the actual beam span. Deck beams of other materials shall be permitted where designed in accordance with accepted engineering practices.																																																																																																																																																																																												
	Tables R507.5(1) throughR507.5(4) are not adopted.																																																																																																																																																																																												
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	TABLE R507.5 MAXIMUM DECK BEAM SPAN - 60 PSF LIVE LOAD or 70 PSF GROUND SNOW LOAD^c <table><tr><th rowspan="3">BEAM SPECIES^d</th><th rowspan="3">BEAM SIZE^e</th><th colspan="7">EFFECTIVE DECK JOIST SPAN LENGTH^{a,i}</th></tr><tr><th colspan="7">(feet)</th></tr><tr><th>6</th><th>8</th><th>10</th><th>12</th><th>14</th><th>16</th><th>18</th></tr><tr><th colspan="2"></th><th colspan="7">MAXIMUM DECK BEAM SPAN LENGTH^{a,b,f}</th></tr><tr><th colspan="2"></th><th colspan="7">(feet-inches)</th></tr><tr><td rowspan="12">Douglas fir-larch^g, Hem-fir^g, Spruce-pine-fir^g</td><td>1-2×6</td><td>3-5</td><td>2-10</td><td>2-5</td><td>2-2</td><td>2-0</td><td>1-10</td><td>1-9</td></tr><tr><td>1-2×8</td><td>4-7</td><td>3-8</td><td>3-2</td><td>2-10</td><td>2-7</td><td>2-5</td><td>2-4</td></tr><tr><td>1-2×10</td><td>5-8</td><td>4-9</td><td>4-1</td><td>3-8</td><td>3-4</td><td>3-1</td><td>2-11</td></tr><tr><td>1-2×12</td><td>6-7</td><td>5-8</td><td>5-0</td><td>4-6</td><td>4-1</td><td>3-10</td><td>3-7</td></tr><tr><td>2-2×6</td><td>5-2</td><td>4-6</td><td>4-0</td><td>3-5</td><td>3-1</td><td>2-10</td><td>2-7</td></tr><tr><td>2-2×8</td><td>6-11</td><td>6-0</td><td>5-3</td><td>4-7</td><td>4-1</td><td>3-8</td><td>3-5</td></tr><tr><td>2-2×10</td><td>8-5</td><td>7-4</td><td>6-6</td><td>5-10</td><td>5-2</td><td>4-9</td><td>4-5</td></tr><tr><td>2-2×12</td><td>9-10</td><td>8-6</td><td>7-7</td><td>6-11</td><td>6-4</td><td>5-9</td><td>5-4</td></tr><tr><td>3-2×6</td><td>6-6</td><td>5-7</td><td>5-0</td><td>4-7</td><td>4-2</td><td>3-9</td><td>3-5</td></tr><tr><td>3-2×8</td><td>8-8</td><td>7-6</td><td>6-8</td><td>6-1</td><td>5-6</td><td>5-0</td><td>4-7</td></tr><tr><td>3-2×10</td><td>10-7</td><td>9-2</td><td>8-2</td><td>7-6</td><td>6-11</td><td>6-4</td><td>5-10</td></tr><tr><td>3-2×12</td><td>12-4</td><td>10-8</td><td>9-7</td><td>8-9</td><td>8-1</td><td>7-7</td><td>7-1</td></tr><tr><td rowspan="12">Redwood^h, Western Cedars^h, Ponderosa Pine^h, Red Pine^h</td><td>1-2×6</td><td>3-6</td><td>2-11</td><td>2-6</td><td>2-3</td><td>2-0</td><td>1-11</td><td>1-9</td></tr><tr><td>1-2×8</td><td>4-6</td><td>3-10</td><td>3-3</td><td>2-11</td><td>2-8</td><td>2-6</td><td>2-4</td></tr><tr><td>1-2×10</td><td>5-6</td><td>4-9</td><td>4-2</td><td>3-9</td><td>3-5</td><td>3-2</td><td>3-0</td></tr><tr><td>1-2×12</td><td>6-4</td><td>5-6</td><td>4-11</td><td>4-6</td><td>4-2</td><td>3-11</td><td>3-8</td></tr><tr><td>2-2×6</td><td>5-3</td><td>4-7</td><td>4-1</td><td>3-6</td><td>3-2</td><td>2-11</td><td>2-8</td></tr><tr><td>2-2×8</td><td>6-8</td><td>5-9</td><td>5-2</td><td>4-8</td><td>4-2</td><td>3-10</td><td>3-6</td></tr><tr><td>2-2×10</td><td>8-2</td><td>7-1</td><td>6-4</td><td>5-9</td><td>5-4</td><td>4-10</td><td>4-6</td></tr><tr><td>2-2×12</td><td>9-5</td><td>8-2</td><td>7-4</td><td>6-8</td><td>6-2</td><td>5-9</td><td>5-5</td></tr><tr><td>3-2×6</td><td>6-4</td><td>5-8</td><td>5-1</td><td>4-8</td><td>4-3</td><td>3-10</td><td>3-6</td></tr><tr><td>3-2×8</td><td>8-4</td><td>7-3</td><td>6-5</td><td>5-11</td><td>5-5</td><td>5-1</td><td>4-8</td></tr><tr><td>3-2×10</td><td>10-2</td><td>8-10</td><td>7-11</td><td>7-2</td><td>6-8</td><td>6-3</td><td>5-11</td></tr><tr><td>3-2×12</td><td>11-10</td><td>10-3</td><td>9-2</td><td>8-4</td><td>7-9</td><td>7-3</td><td>6-10</td></tr></table> For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 pound per square foot = 0.0479 kPa, 1 pound = 0.454 kg. a. Interpolation allowed. Extrapolation is not allowed. b. Beams supporting a single span of joists with or without cantilever. c. Dead load = 10 psf, L/Δ = 360 at mainspan, L/Δ = 180 at cantilever. Snow load not assumed to be concurrent with live load. d. No. 2 grade, wet service factor included. e. Beam depth shall be equal to or greater than the depth of intersecting joist for a flush beam connection. f. Beam cantilevers are limited to the adjacent beam's span divided by 4. g. Includes incising factor. h. Incising factor not included. i. Deck joist span as shown in Figure R507.5. j. For calculation of effective joist span, the actual joist span length shall be multiplied by the joist span factor in accordance with Table R507.5(5).							BEAM SPECIES ^d	BEAM SIZE ^e	EFFECTIVE DECK JOIST SPAN LENGTH ^{a,i}							(feet)							6	8	10	12	14	16	18			MAXIMUM DECK BEAM SPAN LENGTH ^{a,b,f}									(feet-inches)							Douglas fir-larch ^g , Hem-fir ^g , Spruce-pine-fir ^g	1-2×6	3-5	2-10	2-5	2-2	2-0	1-10	1-9	1-2×8	4-7	3-8	3-2	2-10	2-7	2-5	2-4	1-2×10	5-8	4-9	4-1	3-8	3-4	3-1	2-11	1-2×12	6-7	5-8	5-0	4-6	4-1	3-10	3-7	2-2×6	5-2	4-6	4-0	3-5	3-1	2-10	2-7	2-2×8	6-11	6-0	5-3	4-7	4-1	3-8	3-5	2-2×10	8-5	7-4	6-6	5-10	5-2	4-9	4-5	2-2×12	9-10	8-6	7-7	6-11	6-4	5-9	5-4	3-2×6	6-6	5-7	5-0	4-7	4-2	3-9	3-5	3-2×8	8-8	7-6	6-8	6-1	5-6	5-0	4-7	3-2×10	10-7	9-2	8-2	7-6	6-11	6-4	5-10	3-2×12	12-4	10-8	9-7	8-9	8-1	7-7	7-1	Redwood ^h , Western Cedars ^h , Ponderosa Pine ^h , Red Pine ^h	1-2×6	3-6	2-11	2-6	2-3	2-0	1-11	1-9	1-2×8	4-6	3-10	3-3	2-11	2-8	2-6	2-4	1-2×10	5-6	4-9	4-2	3-9	3-5	3-2	3-0	1-2×12	6-4	5-6	4-11	4-6	4-2	3-11	3-8	2-2×6	5-3	4-7	4-1	3-6	3-2	2-11	2-8	2-2×8	6-8	5-9	5-2	4-8	4-2	3-10	3-6	2-2×10	8-2	7-1	6-4	5-9	5-4	4-10	4-6	2-2×12	9-5	8-2	7-4	6-8	6-2	5-9	5-5	3-2×6	6-4	5-8	5-1	4-8	4-3	3-10	3-6	3-2×8	8-4	7-3	6-5	5-11	5-5	5-1	4-8	3-2×10	10-2	8-10	7-11	7-2	6-8	6-3	5-11	3-2×12	11-10	10-3	9-2	8-4	7-9	7-3	6-10					
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	Exterior Decks	R507.6	R507.6		Repeal Existing Amendment		Proposal Needed. Same as Model Code Language																																																																																																																																																																																																																																																
	R507.6 Deck joists. Maximum allowable spans for wood deck joists, as shown in Figure R507.6, shall be in accordance with Table R507.6. The maximum joist spacing shall be limited by the decking materials in accordance with Table R507.7.																																																																																																																																																																																																																																																						
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WAC	Title or Subject	2021 IRC #	2024 IRC #	Rationale	2024 Staff Recommendation	2024 TAG Member Recommendation	Other Comments
CHAPTER 7 WALL COVERING (Part III Building Planning and Construction)							
	Interior Covering	R702.5	R702.5		Keep Existing Amendment		
	R702.5 Other finishes. Wood veneer paneling and hardboard paneling shall be placed on wood or cold-formed steel framing spaced not more than 16 inches (406 mm) on center. Wood veneer and hardboard paneling less than 1/4-inch (6 mm) nominal thickness shall not have less than a 3/8-inch (10 mm) gypsum board or gypsum panel product backer. Wood veneer paneling not less than 1/4-inch (6 mm) nominal thickness shall conform to ANSI/HPVA HP-1. Hardboard paneling shall conform to CPA/ANSI A135.5. All structural panel components within the conditioned space such as plywood, particle board, wafer board and oriented strand board shall be identified as "EXPOSURE 1," "EXTERIOR" or "HUD-APPROVED."						
	Exterior Covering	R703.1.1	R703.1.1		Modify Existing Amendment		Proposal Needed. Incorporate new Model Language
	R703.1.1 Water resistance. The exterior wall envelope shall be designed and constructed in a manner that prevents the accumulation of water within the wall assembly by providing a water-resistant resistive barrier behind the exterior veneer cladding as required by Section R703.2 and a means of draining water that enters the assembly to the exterior. Protection against condensation in the exterior wall assembly shall be provided in accordance with Section R702.7 of this code. EXCEPTION: 1. A weather-resistant exterior wall envelope shall not be required over concrete or masonry walls designed in accordance with Chapter 6 and flashed according to Section R703.4 or R703.8. 2. Compliance with the requirements for a means of drainage, and the requirements of Sections R703.2 and R703.4, shall not be required for an exterior wall envelope that has been demonstrated to resist wind-driven rain through testing of the exterior wall envelope, including joints, penetrations and intersections with dissimilar materials, in accordance with ASTM E 331 under the following conditions: 2.1. Exterior wall envelope test assemblies shall include at least one opening, one control joint, one wall/eave interface and one wall sill. All tested openings and penetrations shall be representative of the intended end-use configuration. Exterior wall envelope test assemblies shall be at least 4 feet (1219 mm) by 8 feet (2438 mm) in size. 2.2. Exterior wall assemblies shall be tested at a minimum differential pressure of 6.24 pounds per square foot (299Pa). 2.3. Exterior wall envelope assemblies shall be subjected to a minimum test exposure duration of 2 hours. 3. The requirement for a means of drainage shall not be construed to mean an air space cavity under the exterior cladding for an exterior wall clad with panel or lapped siding made of plywood, engineered wood, hardboard, or fiber cement. A water-resistive barrier as required by Section R703.2 will be required on exterior walls. The exterior wall envelope design shall be considered to resist wind-driven rain where the results of testing indicate that water did not penetrate control joints in the exterior wall envelope; joints at the perimeter of openings s penetration; or intersections of terminations with dissimilar materials.						
	Exterior Covering	R703.10.2	703.10.2		Keep Existing Amendment		
	R703.10.2 Lap siding. Fiber-cement lap siding having a maximum width of 12 inches (305 mm) shall comply with the requirements of ASTM C 1186, Type A, minimum Grade II or ISO 8336, Category A, minimum Class 2. Lap siding shall be lapped a minimum of 1 1/4 inches (32 mm) and lap siding shall be installed in accordance with the manufacturer's installation instructions or shall be designed to comply with Section R703.1. Lap siding courses shall be installed with the fastener heads exposed or concealed, in accordance with Table R703.3(1) or approved manufacturer's instructions.						
CHAPTER 8 ROOF-CEILING CONSTRUCTION (Part III Building Planning and Construction)							
	NA	NA	NA	NA	NA	NA	NA
No Existing Amendments in Chapter 8							
CHAPTER 9 ROOF ASSEMBLIES (Part III Building Planning and Construction)							
	Weather Protection	R903.4.1	R903.4.1		Keep Existing Amendment		Verify Sections of UPC are accurate
	R903.4.1 Secondary (emergency overflow) drains or scuppers. Where roof drains are required, secondary emergency overflow drains or scuppers shall be provided where the roof perimeter construction extends above the roof in such a manner that water will be entrapped if the primary drains allow buildup for any reason. Overflow drains having the same size as the roof drains shall be installed with the inlet flow line located 2 inches (51 mm) above the low point of the roof, or overflow scuppers having three times the size of the roof drains and having a minimum opening height of 4 inches (102 mm) shall be installed in the adjacent parapet walls with the inlet flow located 2 inches (51 mm) above the low point of the roof served. The installation and sizing of overflow drains, leaders and conductors shall comply with Sections 1101 and 1103 of the state plumbing code 1106 and 1108 of the International Plumbing Code . Overflow drains shall discharge to an approved location.						
CHAPTER 10 CHIMNEYS AND FIREPLACES (Part III Building Planning and Construction)							
	Masonry Fireplaces	R1001.7.1			Keep Existing Amendment		

WAC	Title or Subject	2021 IRC #	2024 IRC #	Rationale	2024 Staff Recommendation	2024 TAG Member Recommendation	Other Comments
	R1001.7.1 Damper. Masonry fireplaces shall be equipped with a ferrous metal damper located at least not less than 8 inches (203 mm) above the top of the fireplace opening. Dampers shall be installed in the fireplace or the chimney venting the fireplace, and shall be operable from the room containing the fireplace. Fireplaces shall be provided with each of the following: 1. Tightly fitting flue dampers, operated by a readily accessible manual or approved automatic control. EXCEPTION: Fireplaces with gas logs shall be installed in accordance with the <i>International Mechanical Code</i> Section 901, except that the standards for liquefied petroleum gas installations shall be NFPA 58 (<i>Liquefied Petroleum Gas Code</i>) and NFPA 54 (<i>National Fuel Gas Code</i>). 2. An outside source for combustion air ducted into the firebox. The duct shall be at least 6 square inches (3870 mm²), and shall be provided with an operable outside air duct damper. 3. Site built fireplaces shall have tight-fitting glass or metal doors, or a flue draft induction fan or as approved for minimizing back-drafting. Factory built fireplaces shall use doors listed for the installed appliance.						
	Masonry Heaters	R1002.2	R1002.2		Keep Existing Amendment		
	R1002.2 Installation. <i>Masonry heaters</i> shall be installed in accordance with this section and shall be a masonry heater type approved by the department of ecology. Masonry heaters shall comply with one of the following: 1. <i>Masonry heaters</i> shall comply with the requirements of ASTM E 1602; or 2. <i>Masonry heaters</i> shall be listed and labeled in accordance with UL 1482 or CEN 15250 and installed in accordance with the manufacturer's installation instructions.						
	Masonry Heaters	R1002.2.1	NA		Keep Existing Amendment		2024 Target R1002.2.1
	R1002.2.1 Combustion air and doors. Masonry heaters shall be provided with both of the following: 1. Primary combustion air ducted from the outside of the structure to the appliance. 2. Tight-fitting ceramic glass or metal doors. Flue dampers, when provided, shall have an external control and when in the closed position shall have a net free area of not less than five percent of the flue cross sectional area.						
	Factory-Built Fireplaces	R1004.1.1	NA		Keep Existing Amendment		2024 Target R1004.1.1
	R1004.1.1 Emission standards for factory-built fireplaces. No new or used factory-built fireplace shall be installed in Washington state unless it is certified and labeled in accordance with procedures and criteria specified in ASTM E2558 Standard Test Method for determining particulate matter emission from fires in wood burning fireplaces. To certify an entire fireplace model line, the internal assembly shall be tested to determine its particulate matter emission performance. Retesting and recertifying is required if the design and construction specifications of the fireplace model line internal assembly change. Testing for certification shall be performed by a Washington state department of ecology (DOE) approved and U.S. Environmental Protection Agency (EPA) accredited laboratory.						
	Factory-Built Fireplaces	R1004.1.2	NA		Keep Existing Amendment		2024 Target R1004.1.2
	R1004.1.2 Emission standards for certified masonry and concrete fireplaces. Masonry and concrete fireplace model lines certified to Washington State Building Code Standard 31-2 prior to July 1, 2013, may retain certification provided the design and construction specifications of the fireplace model line internal assembly do not change.						
	Exterior Air Supply	R1006.4	R1006.4		Keep Existing Amendment		
	R1006.4 Passageway. This section is not adopted. The combustion air passageway shall be not less than 6 square inches (3870 mm²) and not more than 55 square inches (0.035 m²); except that combustion air systems for listed fireplaces shall be constructed in accordance with the fireplace manufacturer's instructions.						
	Exterior Air Supply	R1006.6	NA		Keep Existing Amendment		2024 Target R1006.6

WAC	Title or Subject	2021 IRC #	2024 IRC #	Rationale	2024 Staff Recommendation	2024 TAG Member Recommendation	Other Comments
	R1006.6 Solid fuel-burning appliances and fireplaces. Solid fuel-burning appliances and fireplaces shall be provided with tight-fitting metal or ceramic glass doors, and: 1. A source from outside the structure of primary combustion air, connected to the appliance in accordance with manufacturer's specification. The air inlet shall originate at a point below the fire box. The duct shall be 4 inches (102 mm) or greater in diameter, not exceed 20 feet (6096 mm) in length, and be installed in accordance with manufacturer's instructions; or 2. The appliance and manufacturer's recommended combustion air supply, as an installed unit, shall be certified by an independent testing laboratory to have passed Test No. 11- Negative Pressure Test, Section 12.3, of ULC S627-M1984 "Space Heaters for Use with Solid Fuels," modified as follows: Negative pressure of 8 Pascal shall be initially established with the chamber sealed and the air supply, if not directly connected to the appliance, closed off. The air supply if not directly connected to the appliance, shall then be opened. The maximum allowable air exchange rate from chamber leakage and intentional air supply for the unit (appliance with combustion air supply) in the test chamber is 3.5 air changes per hour, or 28 cfm (cubic feet of air per minute), whichever is less. EXCEPTION: Combustion air may be supplied to the room in which the solid fuel burning appliance is located in lieu of direct ducting, provided that one of the following conditions is met: 1. The solid fuel-burning appliance is part of a central heating plant and installed in an unconditioned space in conformance with the International Mechanical Code; or 2. The solid fuel-burning appliance is installed in existing construction directly on a concrete floor or surrounded by masonry materials as in a fireplace. The combustion air terminus shall be located as close to the solid fuel-burning appliance as possible and shall be provided with a barometric damper or equivalent. The combustion air source shall be specified by the manufacturer or no less than 4 inches (102 mm) in diameter or the equivalent in area or as approved.						
CHAPTER 11 ENERGY EFFICIENCY (Part IV Energy Conservation)							
	NA	NA	NA	NA	NA	NA	NA
This Chapter is not adopted per WAC 51-51-003. For Residential Energy Provisions, see WAC 51-11R Washington State Energy Code Residential Provisions.							
CHAPTER 12 MECHANICAL ADMINISTRATION (Part V Mechanical)							
	General	M1201.1	M1201.1		Keep Existing Amendment		
	M1201.1 Scope. The provisions of Chapters 12 through 24 shall regulate the design, installation, maintenance, <i>alteration</i> and inspection of mechanical systems that are permanently installed and utilized used to provide control of environmental conditions within buildings. These chapters shall also regulate those mechanical systems, system components, equipment and appliances specifically addressed in this code. <i>EXCEPTION: The standards for liquefied petroleum gas installations shall be the 2011 Edition of NFPA 58 (Liquefied Petroleum Gas Code) and the 2012 Edition of ANSI Z223.1/NFPA 54 (National Fuel Gas Code).</i>						
	General	M1201.3	NA		Keep Existing Amendment		2024 Target M1201.3
	M1201.3 Construction documents. The plans and specifications shall show in sufficient detail pertinent data and features of the materials, equipment and systems as herein governed including, but not limited to: Design criteria, size and type of apparatus and equipment, systems and equipment controls, provisions for combustion air to fuel-burning appliances, and other pertinent data to indicate conformance with the requirements of this code.						
	General	M1201.4	NA		Keep Existing Amendment		2024 Target M1201.4
	M1201.4 Testing. At the discretion of the building official, flow testing may be required to verify that the mechanical system(s) satisfies the requirements of this code. Specific testing required by other sections of this code shall be performed. Flow testing may be performed using flow hoods measuring at the intake or exhaust points of the system, in-line pitot tube, or pitot-traverse type measurement systems in the duct, short-term tracer gas measurements, or other means approved by the building official.						
CHAPTER 13 GENERAL MECHANICAL SYSTEMS REQUIREMENTS (Part V Mechanical)							
	General	M1301.2	M1301.2		Keep Existing Amendment		
	M1301.2 Identification. Each length of pipe and tubing and each pipe fitting utilized in a mechanical system shall bear the identification of the manufacturer. <i>EXCEPTION: The manufacturer identification for fittings and pipe nipples shall be on each piece or shall be printed on the fitting or nipple packaging or provided documentation.</i>						
	Appliance Installation	M1307.2	M1307.2		Modify Existing Amendment		Verify Section in UPC is Accurate. Incorporate Model Language removal.
	M1307.2 Anchorage of appliances. Appliances designed to be fixed in position shall be fastened or anchored in an approved manner. Thermal storage units shall be anchored or strapped to resist horizontal displacement caused by earthquake motion in accordance with one of the following: Section R301.2.2.10 . 1. Anchorage and strapping shall be designed to resist a horizontal force equal to one-third of the operating weight of the water storage tank, acting in any horizontal direction. 2. The anchorage strapping shall be in accordance with the appliance manufacturer's recommendations. Seismic anchorage and strapping of water heaters shall be in accordance with Section 507.2 of the state plumbing code.						
CHAPTER 14 HEATING AND COOLING EQUIPMENT AND APPLIANCES (Part V Mechanical)							
	Evaporative Cooling Equipment	M1413.1	M1413.2		Keep Existing Amendment		Verify Section in UPC is Accurate.

WAC	Title or Subject	2021 IRC #	2024 IRC #	Rationale	2024 Staff Recommendation	2024 TAG Member Recommendation	Other Comments
	M1413.1 General. Evaporative <i>cooling equipment</i> and <i>appliances</i> shall comply with UL 1995 or UL/CSA/ANCE 60335-2-40 and shall be installed: 1. In accordance with the manufacturer's instructions. 2. On level platforms in accordance with M1305.1.3.1. 3. So that openings in exterior walls are flashed in accordance with Section R703.4. 4. So as to protect the potable water supply in accordance with Section 603 of the state plumbing code P2902 . 5. So that air intake opening locations are in accordance with Section R303.5.1.						
CHAPTER 15 EXHAUST SYSTEMS (Part V Mechanical)							
	Domestic Cooking Exhaust Equipment	M1503.2.1			Keep Existing Amendment		
	M1503.2.1 Open-top broiler exhaust. Domestic open-top broiler units shall be provided with a metal exhaust hood, having a minimum thickness of not less than 0.0157 inch (0.3950 mm) (No. 28 gage). Such hoods shall be installed with a clearance of not less than 1/4 inch (6.4 mm) between the hood and the underside of combustible material or and cabinets. A clearance of not less than 24 inches (610 mm) shall be maintained between the cooking surface and the combustible material or and cabinets. The hood width shall be not be less than the width of the broiler unit and shall extend over the entire unit. EXCEPTIONS: 1. Broiler units that incorporate an integral exhaust system, and that are listed and labeled for use without an exhaust hood, shall not be required to have an exhaust hood. 2. Broiler units permanently installed outside the building envelope and having the cooking surface at least 5 feet below a 1-hour fire resistance rated ceiling shall not be required to have an exhaust hood.						
	Domestic Cooking Exhaust Equipment	M1503.3	M1503.3		Keep Existing Amendment		
	M1503.3 Exhaust discharge. Domestic cooking exhaust equipment shall discharge to the outdoors through a duct. The duct shall have a smooth interior surface, shall be airtight, shall be equipped with a backdraft damper and shall be independent of all other exhaust systems. Ducts serving domestic cooking exhaust equipment shall not terminate in an attic or crawl space or areas inside the building. EXCEPTION: Where installed in accordance with the manufacturer's instructions, and where continuous local exhaust is provided in an enclosed kitchen in accordance with Table M1505.4.4.1 and where mechanical or natural ventilation is otherwise provided , listed and labeled ductless range hoods shall not be required to discharge to the outdoors.						
	Domestic Cooking Exhaust Equipment	M1503.5	M1503.5		Modify Existing Amendment		Proposal Needed. Incorporate Model language Changes.
	M1503.5 Kitchen exhaust rates. Where domestic kitchen cooking appliances are provided equipped with ducted range hoods or down-draft exhaust equipment systems , the fans shall be sized in accordance with Section M1505.4.4.1 the exhaust rate shall equal or exceed the airflow required in Table m1505.5 at one or more speed settings.						
	Exhaust Ducts and Exhaust Openings	M1504.3	M1504.3		Modify Existing Amendment		Proposal Needed. Incorporate new model language.
	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: except where the exhaust opening is located not less than 3 feet (914 mm) above the air intake opening. Openings shall comply with Sections R303.5.2 and R303.6: 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. Openings shall comply In accordance with Sections R303.5.2 and R303.6.						
	Mechanical Ventilation	M1505.1	M1505.1		Keep Existing Amendment		
	M1505.1 General. Where local exhaust or whole-house mechanical <i>ventilation</i> is provided, the ventilation system shall be designed in accordance with this section. EXCEPTION: Alternate balanced whole-house ventilation systems and local exhaust systems designed and commissioned in accordance with ASHRAE 62.2 are permitted.						
	Mechanical Ventilation	M1505.4	M1505.4		Keep Existing Amendment		
	M1505.4 Whole-house mechanical ventilation system. Each dwelling unit shall be equipped with a ventilation system. The whole-house mechanical ventilation systems shall be designed in accordance with Sections M1505.4.1 through M1505.4.4.						
	Mechanical Ventilation	M1505.4.1	M1505.4.1		Keep Existing Amendment		

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WAC	Title or Subject	2021 IRC #	2024 IRC #	Rationale	2024 Staff Recommendation	2024 TAG Member Recommendation	Other Comments
	Mechanical Ventilation	M1505.4.1.6	NA		Keep Existing Amendment		2024 Target M1505.4.1.6
	M1505.4.1.6 Testing. Whole-house mechanical ventilation systems shall be tested, balanced and verified to provide a flow rate not less than the minimum required by Sections M1505.4.3 and M1505.4.4.1. Testing shall be performed according to the ventilation equipment manufacturer's instructions, or by using a flow hood, flow grid, or other airflow measuring device at the mechanical ventilation fan's inlet terminals, outlet terminals or grilles or in the connected ventilation ducts. Where required by the building official, testing shall be conducted by an approved third party. A written report of the results of the test shall be signed by the party conducting the test and provided to the building official and be posted in the dwelling unit per Section M1505.4.1.7.						
	Mechanical Ventilation	M1505.4.1.7	NA		Keep Existing Amendment		2024 Target M1505.4.1.7
	M1505.4.1.7 Certificate. A permanent certificate shall be completed by the mechanical contractor, test and balance contractor or other approved party and posted on a wall in the space where the furnace is located, a utility room, or an approved location inside the building. When 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 list the flow rate determined from the delivered airflow of the whole-house mechanical ventilation system as installed and the type of mechanical whole-house ventilation system used to comply with Section M1505.4.3.1.						
	Mechanical Ventilation	M1505.4.2	M1505.4.2		Keep Existing Amendment		
	M1505.4.2 System controls. The whole-house mechanical ventilation system shall be provided with controls that enable manual override. Controls shall include text or a symbol indicating their function. comply with the following: 1. The whole-house ventilation system shall be controlled with manual switches, timers or other means that provide for automatic operation of the ventilation system that are readily accessible by the occupant; 2. Whole-house mechanical ventilation system shall be provided with controls that enable manual override off of the system by the occupant during periods of poor outdoor air quality. Controls shall include permanent text or a symbol indicating their function. Recommended control permanent labeling to include text similar to the following: "Leave on unless outdoor air quality is very poor." Manual controls shall be readily accessible by the occupant; 3. Whole-house ventilation systems shall be configured to operate continuously except where intermittent off controls and sizing are provided in accordance with Section M1505.4.3.2.						
	Mechanical Ventilation	M1505.4.3	M1505.4.3		Keep Existing Amendment		
	M1505.4.3 Mechanical ventilation rate. The whole-house mechanical ventilation system shall provide outdoor air at a continuous rate as determined in accordance with Table M1505.4.3(1) or Equation 15-1. Equation 15-1 Ventilation rate in cubic feet per minute = (0.01 × total square foot area of house) + [7.5 × (number of bedrooms + 1)] but not less than 30 cfm for each dwelling unit EXCEPTIONS: 1. Ventilation rate credit. The minimum mechanical ventilation rate determined in accordance with Table M1505.4.3(1) or Equation 15-1 shall be reduced by 30 percent, provided that both of the following conditions apply: 1.1. A ducted system supplies ventilation air directly to each bedroom and to one or more of the following rooms: 1.1.1. Living Room 1.1.2. Dining Room 1.1.3. Kitchen 1.2. The whole-house ventilation system is a balanced ventilation system. 2. Programmed intermittent operation. The whole-house mechanical ventilation system is permitted to operate intermiottently where the system has controls that enable operation for not less than 25 percent of each 4-hour segment and the ventilation rate prescribed in Table M1505.4.3(1), by Equation 15-1 or by Exception 1 is multiplied by the factor determined in accordance with Table M1505.4.3(2)						
	Mechanical Ventilation	T M1505.4.3(1)	T M1505.4.3(1)		Keep Existing Amendment		

WAC	Title or Subject	2021 IRC #	2024 IRC #	Rationale	2024 Staff Recommendation	2024 TAG Member Recommendation	Other Comments																																																																																																																																																												
	Table M1505.4.3(1) Continuous Whole-House Mechanical Ventilation System Airflow Rate Requirements <table><tr><th></th><th colspan="5">Number of Bedrooms</th><th></th><th colspan="5">Number of Bedrooms</th></tr><tr><th>Dwelling Unit Floor Area (square feet)</th><th>0 - 1</th><th>2</th><th>3</th><th>4</th><th>5 or more</th><th>Dwelling Unit Floor Area (square feet)</th><th>0-1</th><th>2-3</th><th>4-5</th><th>6-7</th><th>>7</th></tr><tr><th></th><th colspan="5">Airflow in cfm</th><th></th><th colspan="5">Airflow in cfm</th></tr><tr><td>< 500</td><td>30</td><td>30</td><td>35</td><td>45</td><td>50</td><td><1,500</td><td>30</td><td>45</td><td>60</td><td>75</td><td>90</td></tr><tr><td>501 - 1,000</td><td>30</td><td>35</td><td>40</td><td>50</td><td>55</td><td>1,501-3,000</td><td>45</td><td>60</td><td>75</td><td>90</td><td>105</td></tr><tr><td>1,001 - 1,500</td><td>30</td><td>40</td><td>45</td><td>55</td><td>60</td><td>3,001-4,500</td><td>60</td><td>75</td><td>90</td><td>105</td><td>120</td></tr><tr><td>1,501 - 2,000</td><td>35</td><td>45</td><td>50</td><td>60</td><td>65</td><td>4,501-6,000</td><td>75</td><td>90</td><td>105</td><td>120</td><td>135</td></tr><tr><td>2,001 - 2,500</td><td>40</td><td>50</td><td>55</td><td>65</td><td>70</td><td>6,001-7,500</td><td>90</td><td>105</td><td>120</td><td>135</td><td>150</td></tr><tr><td>2,501 - 3,000</td><td>45</td><td>55</td><td>60</td><td>70</td><td>75</td><td>>7,500</td><td>105</td><td>120</td><td>135</td><td>150</td><td>165</td></tr><tr><td>3,001 - 3,500</td><td>50</td><td>60</td><td>65</td><td>75</td><td>80</td><td colspan="6">For SI: 1 square foot = 0.0929 m², 1 cubic foot per minute = 0.0004719 m³/s</td></tr><tr><td>3,501 - 4,000</td><td>55</td><td>65</td><td>70</td><td>80</td><td>85</td><td colspan="6"></td></tr><tr><td>4,001 - 4,500</td><td>60</td><td>70</td><td>75</td><td>85</td><td>90</td><td colspan="6"></td></tr><tr><td>4,501 - 5,000</td><td>65</td><td>75</td><td>80</td><td>90</td><td>95</td><td colspan="6"></td></tr></table>								Number of Bedrooms						Number of Bedrooms					Dwelling Unit Floor Area (square feet)	0 - 1	2	3	4	5 or more	Dwelling Unit Floor Area (square feet)	0-1	2-3	4-5	6-7	>7		Airflow in cfm						Airflow in cfm					< 500	30	30	35	45	50	<1,500	30	45	60	75	90	501 - 1,000	30	35	40	50	55	1,501-3,000	45	60	75	90	105	1,001 - 1,500	30	40	45	55	60	3,001-4,500	60	75	90	105	120	1,501 - 2,000	35	45	50	60	65	4,501-6,000	75	90	105	120	135	2,001 - 2,500	40	50	55	65	70	6,001-7,500	90	105	120	135	150	2,501 - 3,000	45	55	60	70	75	>7,500	105	120	135	150	165	3,001 - 3,500	50	60	65	75	80	For SI: 1 square foot = 0.0929 m², 1 cubic foot per minute = 0.0004719 m³/s						3,501 - 4,000	55	65	70	80	85							4,001 - 4,500	60	70	75	85	90							4,501 - 5,000	65	75	80	90	95						
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	M1505.4.3.1 Ventilation quality adjustment. The minimum whole-house ventilation rate from Section 1505.4.3 shall be adjusted by the system coefficient in Table M1505.4.3(2) based on the system type not meeting the definition of a <i>balanced whole-house ventilation</i> system and/or not meeting the definition of a <i>distributed whole-house ventilation</i> system. $Q_v = Q_r * C_{system}$ (Equation 15-2) Where: Q_v = Quality-adjusted ventilation airflow rate in cubic feet per minute (cfm). Q_r = Ventilation airflow rate, cubic feet per minute (cfm) from Equation 15-1 or Table M1505.4.3(1). C_{system} = System coefficient from Table 1505.4.3(2).																																																																																																																																																																		
	Mechanical Ventilation	T M1505.4.3(2)	T M1505.4.3(2)		Keep Existing Amendment																																																																																																																																																														
	Table M1505.4.3(2) System Coefficient (C_{system}) Intermittent Whole-House Mechanical Ventilation Rate Factors^{a, b} <table><tr><th>System Type</th><th>Distributed</th><th>Not Distributed</th><th>Run-Time Percentage in Each 4-Hour Segment</th><th>25%</th><th>33%</th><th>50%</th><th>66%</th><th>75%</th><th>100%</th></tr><tr><td>Balanced</td><td>1.0</td><td>1.25</td><td>Factor^a</td><td>4</td><td>3</td><td>2</td><td>1.5</td><td>1.3</td><td>1.0</td></tr><tr><td>Not balanced</td><td>1.25</td><td>1.5</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>							System Type	Distributed	Not Distributed	Run-Time Percentage in Each 4-Hour Segment	25%	33%	50%	66%	75%	100%	Balanced	1.0	1.25	Factor ^a	4	3	2	1.5	1.3	1.0	Not balanced	1.25	1.5																																																																																																																																					
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	M1505.4.3.2 Intermittent off operation. Whole-house mechanical ventilation systems shall be provided with advanced controls that are configured to operate the system with intermittent off operation shall operate for a least two hours in each four-hour segment. The whole-house ventilation airflow rate determined in accordance with Section M1505.4.3 as corrected by Section M1505.4.3.1 is multiplied by the factor determined in accordance with Table M1505.4.3.2.																																																																																																																																																																		
	Mechanical Ventilation	T M1505.4.3.2	NA		Keep Existing Amendment		2024 Target T M1505.4.3.2																																																																																																																																																												

WAC	Title or Subject	2021 IRC #	2024 IRC #	Rationale	2024 Staff Recommendation	2024 TAG Member Recommendation	Other Comments																							
	Table M1505.4.3.2 Intermittent Off Whole-House Mechanical Ventilation Rate Factors^{a,b} <table><tr><td>Run-time % in Each 4-hour Segment</td><td>50%</td><td>66%</td><td>75%</td><td>100%</td></tr><tr><td>Factor^a</td><td>2</td><td>1.5</td><td>1.3</td><td>1.0</td></tr></table> a. For ventilation system run-time values between those given, the factors are permitted to be determined by interpolation. b. Extrapolation beyond the table is prohibited.							Run-time % in Each 4-hour Segment	50%	66%	75%	100%	Factor ^a	2	1.5	1.3	1.0													
Run-time % in Each 4-hour Segment	50%	66%	75%	100%																										
Factor ^a	2	1.5	1.3	1.0																										
	Mechanical Ventilation	M1505.4.4	M1505.5		Modify Existing Amendment		Proposal Needed to incorporate New Model Code language and renumber Target M1505.5																							
	M1505.4.4 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 M1505.4.4. 1. <i>at one or more speed settings. The listed 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. If the local exhaust fan is included in the whole-house ventilation system, in accordance with Section 1505.4.1, then the exhaust fan shall be controlled to operate as specified in Section M1505.4.2.</i>																													
	Mechanical Ventilation	M1505.4.4.1	NA		Keep Existing Amendment		2024 Target M1505.5.1																							
	M1505.4.4.1 Local exhaust. Bathrooms, toilet rooms, and kitchens shall include a local exhaust system. Such local exhaust systems shall have the capacity to exhaust the minimum airflow rate in accordance with Table M1505.4.4.1. Fans required by this section shall be provided with controls that enable manual override or automatic occupancy sensor, humidity sensor, timer controls, or pollutant sensor controls. An "on/off" switch shall meet this requirement for manual controls. Manual fan controls shall be readily accessible in the room served by the fan.																													
	Mechanical Ventilation	T M1505.4.4.1	NA		Keep Existing Amendment		2024 Target T M1505.5.1																							
	Table M1505.4.4.1 Minimum Local Exhaust Rates <table><tr><th rowspan="2">Area to Be Exhausted</th><th colspan="2">Exhaust Rates</th><th rowspan="2">Area to Be Exhausted</th><th>Exhaust Rates</th></tr><tr><th>Intermittent</th><th>Continuous</th><th>Kitchens</th></tr><tr><td>Open Kitchens</td><td>In accordance with Section M1505.4.4.3</td><td>Not Permitted</td><td>Bathrooms-Toilet Rooms</td><td>100 cfm intermittent or 25 cfm continuous</td></tr><tr><td>Enclosed Kitchens</td><td>In accordance with Section M1505.4.4.3</td><td>5 ACH based on kitchen volume</td><td></td><td>Mechanical exhaust capacity of 50 cfm intermittent or 20 cfm continuous</td></tr><tr><td>Bathrooms - Toilet rooms</td><td>50 cfm</td><td>20 cfm</td><td></td><td></td></tr></table>							Area to Be Exhausted	Exhaust Rates		Area to Be Exhausted	Exhaust Rates	Intermittent	Continuous	Kitchens	Open Kitchens	In accordance with Section M1505.4.4.3	Not Permitted	Bathrooms-Toilet Rooms	100 cfm intermittent or 25 cfm continuous	Enclosed Kitchens	In accordance with Section M1505.4.4.3	5 ACH based on kitchen volume		Mechanical exhaust capacity of 50 cfm intermittent or 20 cfm continuous	Bathrooms - Toilet rooms	50 cfm	20 cfm		
Area to Be Exhausted	Exhaust Rates		Area to Be Exhausted	Exhaust Rates																										
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Bathrooms - Toilet rooms	50 cfm	20 cfm																												
	Mechanical Ventilation	M1505.4.4.2	NA		Keep Existing Amendment		2024 Target M1505.5.2																							

WAC	Title or Subject	2021 IRC #	2024 IRC #	Rationale	2024 Staff Recommendation	2024 TAG Member Recommendation	Other Comments																																																																		
	M1505.4.4.2 Local exhaust fans. Exhaust fans shall meet the following criteria: 1. Exhaust fans shall be tested and rated in accordance with the airflow and sound rating procedures of the Home Ventilating Institute (HVI 915, HVI Loudness Testing and Rating Procedure, HVI 916, HVI Airflow Test Procedure, and HVI 920, HVI Product Performance Certification Procedure). 2. Fan airflow rating and duct system shall be designed and installed to deliver at least the exhaust airflow required by Table M1505.4.4.1. The airflows required refer to the delivered airflow of the system as installed and tested using a flow hood, flow grid, or other airflow measurement device. Local exhaust systems shall be tested, balanced, and verified to provide a flow rate not less than the minimum required by this section. 3. Design and installation of the system or equipment shall be carried out in accordance with manufacturers' installation instructions. 4. Intermittent local exhaust systems serving kitchens shall be rated for sound at a maximum of 3 sones at one or more airflow settings not less than 100 cfm at a static pressure not less than that determined at working speed as specified in HVI 916 Section 7.2. 5. Continuous local exhaust systems serving kitchens shall be rated for sound at a maximum of 1 sone at one or more airflow settings not less than 100 cfm at a static pressure not less than that determined at working speed as specified in HVI 916 Section 7.2. EXCEPTIONS: 1. The installed airflow is not required to be field-verified where an exhaust airflow rating at a pressure of 0.25 in. w.g. is used, provided the duct sizing meets the prescriptive requirements of Table M1505.4.4.2. 2. Remote mounted fans need not meet sound requirements. To be considered for this exception, a remote mounted fan shall be mounted outside the kitchen, and there shall be at least 4 feet (1 m) of ductwork between the fan and the intake grille.																																																																								
	Mechanical Ventilation	T M1505.4.4.2	NA		Keep Existing Amendment		2024 Target T M1505.5.2																																																																		
	Table M1505.4.4.2 Prescriptive Exhaust Duct Sizing <table><tr><th>Fan Tested cfm at 0.25 inches w.g.</th><th>Minimum Flex Diameter</th><th>Maximum Length in Feet</th><th>Minimum Smooth Diameter</th><th>Maximum Length in Feet</th><th>Maximum Elbows^a</th></tr><tr><td>50</td><td>4 inches</td><td>25</td><td>4 inches</td><td>70</td><td>3</td></tr><tr><td>50</td><td>5 inches</td><td>90</td><td>5 inches</td><td>100</td><td>3</td></tr><tr><td>50</td><td>6 inches</td><td>No Limit</td><td>6 inches</td><td>No Limit</td><td>3</td></tr><tr><td>80</td><td>4 inches^b</td><td>NA</td><td>4 inches</td><td>20</td><td>3</td></tr><tr><td>80</td><td>5 inches</td><td>15</td><td>5 inches</td><td>100</td><td>3</td></tr><tr><td>80</td><td>6 inches</td><td>90</td><td>6 inches</td><td>No Limit</td><td>3</td></tr><tr><td>100</td><td>5 inches^b</td><td>NA</td><td>5 inches</td><td>50</td><td>3</td></tr><tr><td>100</td><td>6 inches</td><td>45</td><td>6 inches</td><td>No Limit</td><td>3</td></tr><tr><td>125</td><td>6 inches</td><td>15</td><td>6 inches</td><td>No Limit</td><td>3</td></tr><tr><td>125</td><td>7 inches</td><td>70</td><td>7 inches</td><td>No Limit</td><td>3</td></tr></table> a. For each additional elbow, subtract 10 feet from length. b. Flex ducts of this diameter are not permitted with fans of this size.							Fan Tested cfm at 0.25 inches w.g.	Minimum Flex Diameter	Maximum Length in Feet	Minimum Smooth Diameter	Maximum Length in Feet	Maximum Elbows ^a	50	4 inches	25	4 inches	70	3	50	5 inches	90	5 inches	100	3	50	6 inches	No Limit	6 inches	No Limit	3	80	4 inches ^b	NA	4 inches	20	3	80	5 inches	15	5 inches	100	3	80	6 inches	90	6 inches	No Limit	3	100	5 inches ^b	NA	5 inches	50	3	100	6 inches	45	6 inches	No Limit	3	125	6 inches	15	6 inches	No Limit	3	125	7 inches	70	7 inches	No Limit	3
Fan Tested cfm at 0.25 inches w.g.	Minimum Flex Diameter	Maximum Length in Feet	Minimum Smooth Diameter	Maximum Length in Feet	Maximum Elbows ^a																																																																				
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80	4 inches ^b	NA	4 inches	20	3																																																																				
80	5 inches	15	5 inches	100	3																																																																				
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100	6 inches	45	6 inches	No Limit	3																																																																				
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	Mechanical Ventilation	M1505.4.4.3	NA		Keep Existing Amendment		2024 Target M1505.5.3																																																																		
	M1505.4.4.3 Local intermittent kitchen exhaust system. Kitchen range hoods for domestic cooking appliances shall meet or exceed either the minimum airflow or the minimum capture efficiency in accordance with Table M1505.4.4.3. Capture efficiency ratings shall be determined in accordance with ASTM E3087. EXCEPTION: Other intermittent kitchen exhaust fans, including downdraft, shall meet or exceed 300 cfm airflow.																																																																								
	Mechanical Ventilation	T M1505.4.4.3	NA		Keep Existing Amendment		2024 Target T M1505.5.3																																																																		
	Table M1505.4.4.3 Kitchen Range Hood Airflow Rates (cfm) and ASTM E3087 Capture Efficiency (CE) Ratings According to Kitchen Range Fuel Type <table><tr><th>Hood Over Electric Range</th><th>Hood Over Combustion Range</th></tr><tr><td>65% CE or 160 cfm</td><td>80% CE or 250 cfm</td></tr></table>							Hood Over Electric Range	Hood Over Combustion Range	65% CE or 160 cfm	80% CE or 250 cfm																																																														
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	Mechanical Ventilation	M1505.4.4.3.1	NA		Keep Existing Amendment		2024 Target M1505.5.3.1																																																																		

[illegible]

WAC	Title or Subject	2021 IRC #	2024 IRC #	Rationale	2024 Staff Recommendation	2024 TAG Member Recommendation	Other Comments
	NA	NA	NA	NA	NA	NA	NA
	No Existing Amendments in Chapter 18						
CHAPTER 19 SPECIAL APPLIANCES, EQUIPMENT AND SYSTEMS (Part V Mechanical)							
	NA	NA	NA	NA	NA	NA	NA
	No Existing Amendments in Chapter 19						
CHAPTER 20 BOILERS AND WATER HEATERS (Part V Mechanical)							
	Boilers and Water Heaters	Ch 20			Keep Existing Amendment		
	Chapter 20—Boilers and water heaters. Informational Note: Boilers, water heaters and pressure vessels are regulated by chapter 70.79 RCW and chapter 296-104 WAC in addition to the requirements of this code.						
	Water Heaters	M2005.1			Keep Existing Amendment		
	Section M2005.1 General. Water heaters shall be installed in accordance with Chapter 28 5 of the state plumbing code , the manufacturer's instructions and the requirements of this code. Water heaters installed in an attic shall comply with the requirements of Section M1305.1.2. Gas-fired water heaters shall comply with the requirements in Chapter 24. Domestic electric water heaters shall comply with UL 174. Oil-fired water heaters shall comply with UL 732. Thermal solar thermal water heaters heating systems shall comply with Chapter 23 and ICC 900/SRCC 300 UL 174. Solid fuel-fired water heaters shall comply with UL 2523.						
CHAPTER 21 HYDRONIC PIPING (Part V Mechanical)							
	Hydronic Piping Systems Installation	M2101.3	M2101.3		Keep Existing Amendment		
	M2101.3 Protection of potable water. The potable water system shall be protected from backflow in accordance with the provisions listed in Section P2902 603 of the state plumbing code .						
	Floor Heating Systems	M2103.3	M2103.3		Keep Existing Amendment		
	M2103.3 Piping joints. Copper and copper alloy systems shall be soldered, brazed, or press connected. Soldering shall be in accordance with ASTM B 828. Fluxes for soldering shall be in accordance with ASTM B 813. Brazing fluxes shall be in accordance with AWS A5.31. Press-connect joints shall be in accordance with ASME B16.51. Piping joints that are embedded shall be installed in accordance with the following requirements: 1. Steel pipe joints shall be welded. 2. Copper tubing shall be joined by brazing complying with Section P3003.6.4 605 of the state plumbing code . 3. Polybutylene pipe and tubing joints shall be installed with socket-type heat-fused polybutylene fittings. 4. CPVC tubing shall be joined using solvent cement joints. 5. Polypropylene pipe and tubing joints shall be installed with socket-type heat-fused polypropylene fittings. 6. Cross-linked polyethylene (PEX) tubing shall be joined using cold expansion, insert or compression fittings. 7. Raised temperature polyethylene (PE-RT) tubing shall be joined using insert or compression fittings.						
	Ground-Source Heat-Pump System Loop Piping	M2105.9	M2105.9		Keep Existing Amendment		
	M2105.9 CPVC plastic pipe. Joints between CPVC plastic pipe or fittings shall be solvent-cemented in accordance with Section P2906.9.1.2 605 of the state plumbing code . Threaded joints between fittings and CPVC plastic pipe shall be in accordance with Section M2105.9.1.						
	Ground-Source Heat-Pump System Loop Piping	M2105.14	M2105.14		Keep Existing Amendment		
	M2105.14 PVC plastic pipe. Joints between PVC plastic pipe or fittings shall be solvent-cemented in accordance with Section P2906.9.1.4 605 of the state plumbing code . Threaded joints between fittings and PVC plastic pipe shall be in accordance with Section M2105.9.1.						
	Ground-Source Heat-Pump System Loop Piping	M2105.18	M2105.18		Keep Existing Amendment		
	M2105.18 Protection of potable water. Where ground-source heat-pump ground-loop systems have a connection to a potable water supply, the potable water system shall be protected from backflow in accordance with Section P2902-603 of the state plumbing code .						
	Ground-Source Heat-Pump System Loop Piping	M2105.19	M2105.19		Keep Existing Amendment		
	M2105.19 Pipe penetrations. Openings for pipe penetrations in walls, floors and ceilings shall be larger than the penetrating pipe. Openings through concrete or masonry building elements shall be sleeved. The annular space surrounding pipe penetrations shall be protected in accordance with Section P2606.4 312 of the state plumbing code .						
CHAPTER 22 SPECIAL PIPING AND STORAGE SYSTEMS (Part V Mechanical)							
	NA	NA	NA	NA	NA	NA	NA
	No Existing Amendments in Chapter 19						
CHAPTER 23 SOLAR THERMAL ENERGY SYSTEMS (Part V Mechanical)							

WAC	Title or Subject	2021 IRC #	2024 IRC #	Rationale	2024 Staff Recommendation	2024 TAG Member Recommendation	Other Comments
	Solar Thermal Energy Systems	M2301.2.3	M2301.2.3		Keep Existing Amendment		
	M2301.2.3 Pressure and temperature relief valves and system components. System components containing fluids shall be protected with temperature and pressure relief valves or pressure relief valves. Relief devices shall be installed in sections of the system so that a section cannot be valved off or isolated from a relief device. Direct systems and the potable water portion of indirect systems shall be equipped with a relief valve in accordance with Section P2804 504 of the state plumbing code . For indirect systems, pressure relief valves in solar loops shall comply with SRCC 300. System components shall have a working pressure rating of not less than the setting of the pressure relief device.						
	Solar Thermal Energy Systems	M2301.2.5	M2301.2.5		Keep Existing Amendment		
	M2301.2.5 Piping insulation. Piping shall be insulated in accordance with the requirements of Chapter 14 the state energy code . Exterior insulation shall be protected from ultraviolet degradation. The entire solar loop shall be insulated. Where split-style insulation is used, the seam shall be sealed. Fittings shall be fully insulated. Exceptions: 1.—Those portions of the piping that are used to help prevent the system from overheating shall not be required to be insulated. 2.—Those portions of piping that are exposed to solar radiation, made of the same material as the solar collector absorber plate and are covered in the same manner as the solar collector absorber, or that are used to collect additional solar energy, shall not be required to be insulated. 3.—Piping in thermal solar systems using unglazed solar collectors to heat a swimming pool shall not be required to be insulated.						
	Solar Thermal Energy Systems	M2301.4	M2301.4		Keep Existing Amendment		
	M2301.4 Heat transfer gasses or liquids and heat exchangers. <i>Essentially toxic transfer fluids</i> , ethylene glycol, flammable gasses and flammable liquids shall not be used as heat transfer fluids. Heat transfer gasses and liquids shall be rated to withstand the system's maximum design temperature under operating conditions without degradation. Heat exchangers used in solar thermal systems shall comply with Section P2902.5.2 603.5.4 of the state plumbing code and ICC-900/SRCC 300 . Heat transfer fluids shall be in accordance with ICC-900 /SRCC 300. The flash point of the heat transfer fluids utilized in solar thermal systems shall be not less than 50 degrees F above the design maximum nonoperating or no-flow temperature attained by the fluid in the collector.						
	Solar Thermal Energy Systems	M2301.7	M2301.7		Keep Existing Amendment		
	M2301.7 Solar thermal systems for heating potable water. Where a solar thermal system heats potable water to supply a potable hot water distribution system, the solar thermal system shall be in accordance with Sections M2301.7.1, M2301.7.2 and P2902.5.5 the state plumbing code .						
	Solar Thermal Energy Systems	M2301.7.1	M2301.7.1		Keep Existing Amendment		
	M2301.7.1 Indirect systems. Heat exchangers that are components of indirect solar thermal heating systems shall comply with P2902.5.2 the state plumbing code .						
	Solar Thermal Energy Systems	M2301.7.2	M2301.7.2		Keep Existing Amendment		
	M2301.7.2 Direct systems. Where potable water is directly heated by a solar thermal system, the pipe, fittings, valves and other components that are in contact with the potable water in the solar heating system shall comply with the requirements of Chapter 29 6 of the state plumbing code .						
CHAPTER 24 FUEL GAS (Part VI Fuel Gas)							
	NA	NA	NA	NA	NA	NA	NA
	No Existing Amendments in Chapter 24						
CHAPTER 25 PLUMBING ADMINISTRATION (Part VII Plumbing)							
	NA	NA	NA	NA	NA	NA	NA
	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 26 GENERAL PLUMBING REQUIREMENTS (Part VII Plumbing)							
	NA	NA	NA	NA	NA	NA	NA
	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 (Part VII Plumbing)							
	NA	NA	NA	NA	NA	NA	NA
	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 (Part VII Plumbing)							
	NA	NA	NA	NA	NA	NA	NA
	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 (Part VII Plumbing)							
	NA	NA	NA	NA	NA	NA	NA
	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.						
	Dwelling Unit Fire-Sprinkler Systems	P2904.1.1	P2904.1.1		Keep Existing Amendment		

WAC	Title or Subject	2021 IRC #	2024 IRC #	Rationale	2024 Staff Recommendation	2024 TAG Member Recommendation	Other Comments
	P2904.1.1 Required sprinkler locations. Sprinklers shall be installed to protect all areas of a <i>dwelling unit</i> . EXCEPTIONS: 1. Uninhabitable attics, crawl spaces and normally unoccupied concealed spaces that do not contain fuel-fired appliances do not require sprinklers. In uninhabitable attics, crawl spaces and normally unoccupied concealed spaces that contain fuel-fired equipment, a sprinkler shall be installed above the equipment; however, sprinklers shall not be required in the remainder of the space. 2. Clothes closets, linen closets and pantries not exceeding 24 square feet (2.2 m2) in area, with the smallest dimension not greater than 3 feet (915 mm) and having wall and ceiling surfaces of gypsum board. 3. Bathrooms not more than 55 square feet (5.1 m2) in area. 4. Garages; carports; exterior porches; unheated entry areas, such as mud rooms, that are adjacent to an exterior door; and similar areas.						
	CHAPTER 30 SANITARY DRAINAGE (Part VII Plumbing)						
	NA	NA	NA	NA	NA	NA	NA
	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 (Part VII Plumbing)						
	NA	NA	NA	NA	NA	NA	NA
	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 (Part VII Plumbing)						
	NA	NA	NA	NA	NA	NA	NA
	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 (Part VII Plumbing)						
	NA	NA	NA	NA	NA	NA	NA
	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 (Part VIII Electrical)						
	NA	NA	NA	NA	NA	NA	NA
	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 (Part VIII Electrical)						
	NA	NA	NA	NA	NA	NA	NA
	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 (Part VIII Electrical)						
	NA	NA	NA	NA	NA	NA	NA
	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 (Part VIII Electrical)						
	NA	NA	NA	NA	NA	NA	NA
	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 (Part VIII Electrical)						
	NA	NA	NA	NA	NA	NA	NA
	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 (Part VIII Electrical)						
	NA	NA	NA	NA	NA	NA	NA
	This Chapter is not adopted per WAC 51-51-003. For Electrical Provisions, see WAC 296-46B . Adoption of the National Electric Code.						
	CHAPTER 40 DEVICES AND LUMINARIES (Part VIII Electrical)						
	NA	NA	NA	NA	NA	NA	NA
	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 (Part VIII Electrical)						
	NA	NA	NA	NA	NA	NA	NA
	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 (Part VIII Electrical)						
	NA	NA	NA	NA	NA	NA	NA
	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 (Part VIII Electrical)						
	NA	NA	NA	NA	NA	NA	NA
	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 (Part IX Referenced Standards)						
	Association of Home Appliance Manufacturers	CH 44	CH 44		Keep Existing Amendment		

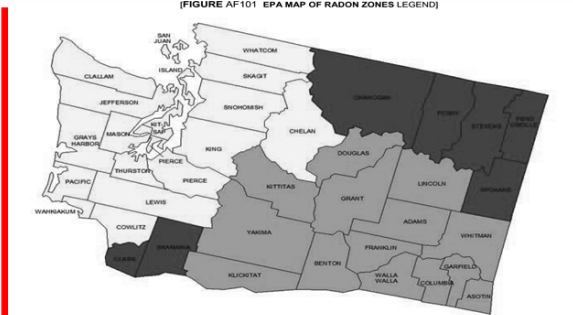
WAC	Title or Subject	2021 IRC #	2024 IRC #	Rationale	2024 Staff Recommendation	2024 TAG Member Recommendation	Other Comments
	AHAM Association of Home Appliance Manufacturers 1111 19th St N.W., #402 Washington D.C. 20036 HRH-2-2019: Household Range Hoods. M1505.4.4.2 Certified Range Hood Directory M1505.4.4.3.1						
	Asociacion Nacional de Certificacion y Estandaes(National Association of Standardization and Certification)	CH 44	CH 44		Modify Existing Amendment		Update to Newest Standard. Not included in Model 2024 code.
	ANCE NMX-J-521/2-40-ANCE— 2014-2019/CAN/CSA-22.2 No. 60335-2-40— 12-19/UL 60335- 2-40-2019 Safety of Household and Similar Electrical Appliances - Safety-Part 2-40: Particular Requirements for Electric Heat Pumps, Air-Conditioners and Dehumidifiers. M1403.1, M1412.1, M1413.1						
	American National Standards Institute	CH 44	CH 44		Modify Existing Amendment		Update to Newest Standard. Verify Reference to G2414.5.4
	ANSI CSA/ANSI LC 1-19-2018/CSA 6.26—2016-1819: Fuel Gas Piping Systems Using Corrugated Stainless Steel Tubing (CSST). G2414.5.4 G2414.4.4 , G2411.3, G2415.5 403.5.5						
	American Society of Heating, Refrigerating, and Air-Conditioning Engineers	CH 44	CH 44		Keep Existing Amendment		
	ASHRAE 34—2019: Designation and Safety Classification of Refrigerants. M1411.1 62.2-2019: Ventilation and Acceptable Indoor Air Quality in Residential Buildings. M1505.1						
	American Society for Testing and Materials	CH 44	CH 44		Keep Existing Amendment		
	ASTM E2556/E2556M-2010 (2016): Standard Specification for Vapor Permeable Flexible Sheet Water-Resistive Barriers Intended for Mechanical Attachment. M1411.1 R703-2 E2558-2013: Standard Test Method for Determining Particulate Matter Emissions from Fires in Wood-burning Fireplaces. R1004.1.1 E3087—18: Standard Test Method for Measuring Capture Efficiency of Domestic Range Hoods. M1505.4.4.3.2, Table M1505.4.4.3						
	Canadian Standards Association	CH 44	CH 44		Keep Existing Amendment		
	CSA CAN/CSA/C22.2 No. 60335-2-40—2012 60335-2-40—2019 NMX-J-521/2-40-ANCE—2019/CAN/CSA-C22.2 No. 60335-2-40—19/UL 60335- 2-40-2019 Household and Similar Electric Appliances, Part 2-40-Safety: Particular Requirements for Electric Heat Pumps, Air-Conditioners and Dehumidifiers. M2006.1						
	Home Ventilating Institute	CH 44	CH 44		Keep Existing Amendment		

[illegible]

WAC	Title or Subject	2021 IRC #	2024 IRC #	Rationale	2024 Staff Recommendation	2024 TAG Member Recommendation	Other Comments
	Compliance	R4502.5.2	NA		Keep Existing Amendment		
	R4502.5.2 Safety glazing. Replacement glazing in hazardous locations shall comply with the safety glazing requirements of Section R308.						
	Compliance	R4502.5.3	NA		Keep Existing Amendment		
	R4502.5.3 Window fall protection. Window fall protection shall be installed in accordance with Section R312.2. EXCEPTION: Where only the window glazing is being replaced.						
	Compliance	R4502.5.4	NA		Keep Existing Amendment		
	R4502.5.4 Replacement windows for emergency escape and rescue openings. Replacement windows shall be exempt from Sections R310.2 and R310.4.4, provided that the replacement window meets the following conditions: 1. The replacement window is the manufacturer's largest standard size window that will fit within the existing frame or existing rough opening. The replacement window is of the same operating style as the existing window or a style that provides for an equal or greater window opening area than the existing window. 2. The replacement window is not part of a change of use.						
	Compliance	R4502.5.5	NA		Keep Existing Amendment		
	R4502.5.5 Window opening control device and fall protection device height. Window opening control devices or fall protection device shall be located at a height in accordance with Section R310.1.1 or at as low a height as can be installed within the existing clear opening.						
	Compliance	R4502.6	NA		Keep Existing Amendment		
	R4502.6 Flood hazard areas. Work performed in existing buildings located in a flood hazard area as established by Table R301.2 shall be subject to the provisions of Section R105.3.1.1.						
	Repairs	R4503.1	NA		Keep Existing Amendment		
	R4503.1 General. <i>Repairs</i> shall comply with the applicable provisions of the code for new construction or as permitted by this section. Work on undamaged components that is necessary for the required repair of damaged components shall be considered part of the repair and shall not be subject to requirements for <i>alterations</i> .						
	Repairs	R4503.2	NA		Keep Existing Amendment		
	R4503.2 Materials. Materials used during <i>repairs</i> shall comply with this section.						
	Repairs	R4503.2.1	NA		Keep Existing Amendment		
	R4503.2.1 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> , provided that <i>unsafe</i> conditions are not created. Hazardous materials shall not be used where this code does not permit their use in buildings of similar occupancy, purpose, and location.						
	Repairs	R4503.2.2	NA		Keep Existing Amendment		
	R4503.2.2 Existing materials. Materials already in use in a building 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 building official to be <i>unsafe</i> .						
	Repairs	R4503.2.3	NA		Keep Existing Amendment		
	R4503.2.3 Plumbing materials and supplies. The following plumbing materials and supplies shall not be used: 1. All-purpose solvent cement, unless listed for the specific application. 2. Flexible traps and tailpieces, unless listed for the specific application. 3. Solder having more than 0.2-percent lead in the repair of potable water systems.						
	Repairs	R4503.3	NA		Keep Existing Amendment		
	R4503.3 Water closets. Where any water closet is replaced with a newly manufactured water closet, the replacement water closet shall comply with the requirements of Uniform Plumbing Code Section 411.						
	Repairs	R4503.4	NA		Keep Existing Amendment		
	R4503.4 Structural. Repaired structural elements and systems shall comply with Section R102.7.1 and the structural provisions of this chapter.						
	Repairs	R4503.5	NA		Keep Existing Amendment		

WAC	Title or Subject	2021 IRC #	2024 IRC #	Rationale	2024 Staff Recommendation	2024 TAG Member Recommendation	Other Comments
	R4503.5 Demolition and replacement. Where a building or structure is effectively demolished by damage or where the intended method of repair is demolition and replacement, the replaced building, including its replaced foundation, shall comply with requirements for new construction in the <i>International Residential Code</i> . EXCEPTION: Existing foundations are permitted to remain and be reused where approved by the code official.						
	Alterations	R4504.1	NA		Keep Existing Amendment		
	R4504.1 General. <i>Alterations</i> to existing buildings shall comply with the provisions of this code for new construction, except as permitted by this section.						
	Alterations	R4504.2	NA		Keep Existing Amendment		
	R4504.2 Newly constructed elements. Newly constructed elements, components, and systems shall comply with the requirements of this code. EXCEPTION: Added openable windows are not required to comply with the light and ventilation requirements of Section R303.						
	Alterations	R4504.3	NA		Keep Existing Amendment		
	R4504.3 Nonconformities. The work shall not increase the extent of noncompliance or create nonconformity to those requirements that did not previously exist.						
	Alterations	R4504.4	NA		Keep Existing Amendment		
	R4504.4 Structural. Altered structural elements and systems shall comply with Section R102.7.1 and the structural provisions of this chapter. New elements shall meet all of the requirements of this code for new construction. Structural elements that are uncovered during the course of the alteration and that are found to be unsafe shall be repaired in accordance with Section R102.7.1.						
	Alterations	R4504.4.1	NA		Keep Existing Amendment		
	R4504.4.1 Decreased structural capacity. Where an alteration 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.						
	Alterations	R4504.4.2	NA		Keep Existing Amendment		
	R4504.4.2 Increased structural loads. Where an alteration 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.						
	Alterations	R4504.4.2.1	NA		Keep Existing Amendment		
	R4504.4.2.1 Dead load increase. Dead load 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. EXCEPTION: 1. Buildings in which the increase in dead load is due entirely to the addition of a second layer of roof covering weighing 3 pounds per square foot (0.1437 kN/m2) or less over an existing single layer of roof covering. 2. Installation of rooftop-mounted photovoltaic (PV) panel systems weighing 4 pounds per square foot or less over an existing single layer of roof covering.						
	Alterations	R4504.4.2.2	NA		Keep Existing Amendment		
	R4504.4.2.2 Live load increase. An increase in live load shall be determined based on Table R301.5.						
	Alterations	R4504.4.2.3	NA		Keep Existing Amendment		
	R4504.4.2.3 Snow load increase. Snow load shall be considered to be increased for purposes of this section when alteration of the roof configuration creates new areas that accumulate drifted snow.						
	Alterations	R4504.4.2.4	NA		Keep Existing Amendment		
	R4504.4.2.4 Wind load increase. Wind load shall be considered to be increased for purposes of this section when the surface area of any exterior elevation subject to wind pressure is increased by more than 5 percent.						
	Alterations	R4504.4.2.5	NA		Keep Existing Amendment		
	R4504.4.2.5 Seismic load increase. Seismic load shall be considered to be increased for purposes of this section in <i>existing buildings</i> assigned to Seismic Design Category C, D0, D1, or D2 where new materials replace lighter weight materials in one of the following conditions: 1. Concrete tile or tile roof covering of similar weight is installed on more than 50 percent of the total roof area. 2. Brick veneer or cladding of similar weight is installed on walls above the second story.						
	Alterations	R4504.5	NA		Keep Existing Amendment		

WAC	Title or Subject	2021 IRC #	2024 IRC #	Rationale	2024 Staff Recommendation	2024 TAG Member Recommendation	Other Comments
	R4504.5 Ventilation. Reconfigured spaces intended for occupancy and spaces converted to habitable or occupiable space in any work area shall be provided with ventilation in accordance with Section R303.						
	Alterations	R4504.6	NA		Keep Existing Amendment		
	R4504.6 Ceiling height. Where a habitable attic or habitable space in a basement is created in an existing building, ceiling height shall not be less than 6 foot 8 inches (2032 mm). Bathrooms, toilet rooms, and laundry rooms shall have a ceiling height of not less than 6 feet 4 inches (1931 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 (2134 mm). 2. At beams, girders, ducts, or other obstructions, the ceiling height shall be not less than 6 feet 4 inches (1931 mm) from the finished floor.						
	Alterations	R4504.7	NA		Keep Existing Amendment		
	R4504.7 Stairways, handrails, and guards. Stairs, handrails, and guards shall comply with this section.						
	Alterations	R4504.7	NA		Keep Existing Amendment		
	R4504.7.1 Stairway illumination. Stairways within the work area shall be provided with illumination in accordance with Section R303.6.						
	Alterations	R4504.7.2	NA		Keep Existing Amendment		
	R4504.7.2 Stair width. Existing stairs not otherwise being altered or modified shall be permitted to maintain their current clear width at, above and below existing handrails.						
	Alterations	R4504.7.3	NA		Keep Existing Amendment		
	R4504.7.3 Stair headroom. Headroom height on existing stairs being altered or modified shall not be reduced below the existing stairway finished headroom. Existing stairs not otherwise being altered shall be permitted to maintain the current finished headroom.						
	Alterations	R4504.7.4	NA		Keep Existing Amendment		
	R4504.7.4 Stair landing. Landings serving existing stairs being altered or modified shall not be reduced below the existing stairway landing depth and width. Existing stairs not otherwise being altered shall be permitted to maintain the current landing depth and width.						
	Alterations	R4504.7.5	NA		Keep Existing Amendment		
	R4504.7.5 Stair treads and risers. An existing stairway shall not be required to comply with Section R311.7.5 where the existing space and construction does not allow a reduction in pitch or slope. Where risers are added to an existing stair, the tread and riser dimensions of the added risers shall match the existing stair.						
	Alterations	R4504.7.6	NA		Keep Existing Amendment		
	R4504.7.6 Handrails and guards. Where a stair or any portion of a stair is reconstructed, a handrail and guard, where required, shall be provided in accordance with Section R311 and R312.						
	Additions	R4505.1	NA		Keep Existing Amendment		
	R4505.1 Additions to an existing building. Additions shall comply with this section and other applicable provisions of this code for new construction.						
	Additions	R4505.2	NA		Keep Existing Amendment		
	R4505.2 Structure for horizontal additions. Where an addition involves new construction next to and attached to an existing building and includes alterations to the existing building, the <i>addition</i> shall meet all of the requirements of this code for new construction. Alterations to the existing building shall comply with the requirements governing alterations within this code. In wood light-frame additions, connection of the structural components shall be permitted to be provided using wall top plates and addition 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 structural components of the <i>addition</i> shall be permitted to be connected to the existing building in accordance with accepted engineering practice.						
	Additions	R4505.3	NA		Keep Existing Amendment		

WAC	Title or Subject	2021 IRC #	2024 IRC #	Rationale	2024 Staff Recommendation	2024 TAG Member Recommendation	Other Comments
	R4505.3 Structure for vertical additions. Where an addition involves new construction that adds a story 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 meet all of the 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 alterations are required.						
	Relocations	R4506.1	NA		Keep Existing Amendment		
	R4506.1 Relocated buildings. Residential buildings or structures moved into or within the jurisdiction are not required to comply with the requirements of this code if the original use classification of the building or structure is not changed. Any repair, alteration, or change of use undertaken within the relocated structure shall comply with the requirements of this code applicable to the work being performed.						
APPENDIX AA SIZING AND CAPACITIES OF GAS PIPING							
	NA	NA	NA	NA	NA	NA	NA
No Existing Amendments in Appendix AA							
APPENDIX AB SIZING OF VENTING SYSTEMS SERVING APPLIANCES EQUIPPED WITH DRAFT HOODS, CATEGORY I APPLIANCES AND APPLIANCES LISTED FOR USE WITH TYPE B VENTS							
	NA	NA	NA	NA	NA	NA	NA
No Existing Amendments in Appendix AB							
APPENDIX AC EXIT TERMINALS OF MECHANICAL DRAFT AND DIRECT-VENT VENTING SYSTEMS							
	NA	NA	NA	NA	NA	NA	NA
No Existing Amendments in Appendix AC							
APPENDIX AD RECOMMENDED PROCEDURE FOR SAFETY INSPECTION OF AN EXISTING APPLIANCE INSTALLATION							
	NA	NA	NA	NA	NA	NA	NA
No Existing Amendments in Appendix AD							
APPENDIX AE MANUFACTURED HOUSING USED AS DWELLINGS							
	NA	NA	NA	NA	NA	NA	NA
No Existing Amendments in Appendix AE							
APPENDIX AF RADON CONTROL METHODS							
	Scope	AF101.1	BE101.1		Keep Existing Amendment		
	AF101.1 General. This appendix contains requirements for new construction in jurisdictions where radon-resistant construction is required. Inclusion of this appendix by jurisdictions shall be required in high radon potential counties as determined through the use of locally available data or determination of Zone 1 designation in Figure AF101 AF101.1 and as listed in Table AF101(1)-AF101.1. Unvented crawl spaces are not permitted in any high radon potential county. In other areas, requirements of this appendix apply to any structure constructed with unvented crawl spaces as specified in R408.3.						
	(FIGURE AF101 EPA MAP OF RADON ZONES LEGEND)  ZONE 1 HIGH POTENTIAL (GREATER THAN 4 pCi/L) [Red/Darkest] ZONE 2 MODERATE POTENTIAL (FROM 2 TO 4 pCi/L) [Orange/Midrange] ZONE 3 LOW POTENTIAL (LESS THAN 2 pCi/L) [Yellow/Lightest] a. pCi/L standard for picocuries per liter of radon gas. EPA recommends that all homes that measure 4 pCi/L and greater be mitigated. The United States Environmental Protection Agency and the United States Geological Survey have evaluated the radon potential in the United States and have developed a map of radon zones designed to assist building officials in deciding whether radon-resistant features are applicable in new construction. The map assigns each of the 3,141 counties in the United States to one of three zones based on radon potential. Each zone designation reflects the average short-term radon measurement that can be expected to be measured in a building without the implementation of radon control methods. The radon zone designation of highest priority is Zone 1. Table 1 of this appendix lists the Zone 1 counties illustrated on the map. More detailed information can be obtained from state-specific booklets (EPA-402-R-93-021 through 070) available through State Radon Offices or from U.S. EPA Regional Offices.						
	Scope	T AF101(1)	T BE101(1)		Keep Existing Amendment		

WAC	Title or Subject	2021 IRC #	2024 IRC #	Rationale	2024 Staff Recommendation	2024 TAG Member Recommendation	Other Comments
	TABLE AF101(1) HIGH RADON POTENTIAL (ZONE 1) COUNTIES^A [Washington] Clark, Ferry, Okanogan, Pend Oreille, Skamania, Spokane, Stevens.] a. EPA recommends that this county listing be supplemented with other available state and local data to further understand the radon potential of Zone 1 areas.						
	Requirements	AF103.1	BE103.1		Keep Existing Amendment		
	AF103.1 General. The following construction techniques are intended to resist radon entry and prepare the building for post-construction radon mitigation, if necessary (see Figure AF103.1). These techniques are required in high radon potential counties areas where designated in Table AF101(1) by the jurisdiction.						
	APPENDIX AG PIPING STANDARDS FOR VARIOUS APPLICATIONS						
	NA	NA	NA	NA	NA	NA	NA
	No Existing Amendments in Appendix AG						
	APPENDIX AH PATIO COVERS						
	NA	NA	NA	NA	NA	NA	NA
	No Existing Amendments in Appendix AH						
	APPENDIX AI PRIVATE SEWAGE DISPOSAL						
	NA	NA	NA	NA	NA	NA	NA
	No Existing Amendments in Appendix AI						
	APPENDIX AJ EXISTING BUILDINGS AND STRUCTURES						
	NA	NA	NA	NA	NA	NA	NA
	No Existing Amendments in Appendix AJ						
	APPENDIX AK SOUND TRANSMISSION						
	NA	NA	NA	NA	NA	NA	NA
	No Existing Amendments in Appendix AK						
	APPENDIX AL PERMIT FEES						
	NA	NA	NA	NA	NA	NA	NA
	No Existing Amendments in Appendix AL						
	APPENDIX AM HOME DAY CARE – R-3 OCCUPANCY						
	NA	NA	NA	NA	NA	NA	NA
	No Existing Amendments in Appendix AM						
	APPENDIX AN VENTING METHODS						
	NA	NA	NA	NA	NA	NA	NA
	No Existing Amendments in Appendix AN						
	APPENDIX AO AUTOMATIC VEHICULAR GATES						
	NA	NA	NA	NA	NA	NA	NA
	No Existing Amendments in Appendix AO						
	APPENDIX AP SIZING OF WATER PIPING SYSTEM						
	NA	NA	NA	NA	NA	NA	NA
	No Existing Amendments in Appendix AP						
	APPENDIX AQ TINY HOUSES						
	Definitions	AQ102.1	BB102.1		Keep Existing Amendment		
	EGRESS ROOF ACCESS WINDOW. See Chapter 2 A skylight or roof window designed and installed to satisfy the emergency escape and rescue opening requirements of Section R310.2.						
	Definitions	AQ102	BB102.1		Keep Existing Amendment		
	LANDING PLATFORM. See Chapter 2 A landing provided as the top step of a stairway accessing a loft.						
	Definitions	AQ102	BB102.1		Keep Existing Amendment		
	LOFT. See Chapter 2 A floor level located more than 30 inches (762 mm) above the main floor, open to the main floor on one or more sides with a ceiling height of less than 6 feet 8 inches (2032 mm) and used as a living or sleeping space.						
	Definitions	AQ102	BB102.1		Keep Existing Amendment		
	TINY HOUSE. A dwelling <i>unit</i> that is 400 square feet (37 m²) or less in floor area excluding <i>sleeping lofts</i> .						
	Ceiling Height	AQ103.1	BB103.1		Keep Existing Amendment		

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WAC	Title or Subject	2021 IRC #	2024 IRC #	Rationale	2024 Staff Recommendation	2024 TAG Member Recommendation	Other Comments
	General Definition	AT102.1	NB102		Keep Existing Amendment		
	Solar-ready zone. A section or sections of the roof or building overhang designated and reserved for the future installation of a solar photovoltaic or solar water-heating thermal system.						
	Solar Ready Zone	AT103.3	NB103.3		Keep Existing Amendment		
	AT103.3 Solar-ready zone area. The total solar-ready zone area shall be not less than 300 square feet (27.87 m2) exclusive of mandatory access or set back areas as required by this code the International Fire Code . New 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 (185.8 m2) per dwelling shall have a solar-ready zone area of not less than 150 square feet (13.94 m2). The solar-ready zone shall be composed of areas not less than 5 feet (1.52 m 1524 mm) in width and not less than 80 square feet (7.44 m2) exclusive of access or set back areas as required in this code or the applicable provisions of the International Fire Code . No portion of the solar zone shall be located on a roof slope greater than 2:12 that faces within 45 degrees of true north by the International Fire Code .						
	Solar Ready Zone	AT103.6	NB 103.6		Keep Existing Amendment		
	AT103.6 Capped roof penetration sleeve. A capped roof penetration sleeve shall be provided adjacent to a solar-ready zone when the solar-ready zone has a roof slope of 2:12 or less located on a roof slope of not greater than 1 unit vertical in 12 units horizontal (8-percent slope) . The capped roof penetration sleeve shall be sized to accommodate the future photovoltaic system conduit, but shall have an inside diameter not less than 1 1/4 inches.						
APPENDIX AU COB CONSTRUCTION (MONOLITHIC ADOBE)							
	NA	NA	NA	NA	NA	NA	NA
	No Existing Amendments in Appendix AU						
APPENDIX AV BOARD OF APPEALS							
	NA	NA	NA	NA	NA	NA	NA
	No Existing Amendments in Appendix AV						
APPENDIX AW 3D-PRINTED BUILDING CONSTRUCTION							
	NA	NA	NA	NA	NA	NA	NA
	No Existing Amendments in Appendix AW						
APPENDIX AX ZERO ENERGY RESIDENTIAL BUILDING PROVISIONS							
	NA	NA	NA	NA	NA	NA	NA
	No Existing Amendments in Appendix AX						
APPENDIX AWU DWELLING UNIT FIRE SPRINKLER SYSTEMS							
	Dwelling Unit Fire Sprinkler Systems	AWU			Keep Existing Amendment		
	Appendix AWU—Dwelling unit fire sprinkler systems. The design and installation of residential fire sprinkler systems shall be in accordance with the International Residential Code Section P2904 Dwelling Unit Fire Sprinkler Systems.						
	Dwelling Unit Fire Sprinkler Systems	AWU P2904.1.1			Keep Existing Amendment		Suggest renumbering to fit publication
	P2904.1.1 Required sprinkler locations. Sprinklers shall be installed to protect all areas of a dwelling unit. EXCEPTIONS: 1. Uninhabitable attics, crawl spaces and normally unoccupied concealed spaces that do not contain fuel-fired appliances do not require sprinklers. In uninhabitable attics, crawl spaces and normally unoccupied concealed spaces that contain fuel-fired equipment, a sprinkler shall be installed above the equipment; however, sprinklers shall not be required in the remainder of the space. 2. Clothes closets, linen closets and pantries not exceeding 24 square feet (2.2 m²) in area, with the smallest dimension not greater than 3 feet (915 mm) and having wall and ceiling surfaces of gypsum board. 3. Bathrooms not more than 55 square feet (5.1 m²) in area. 4. Garages; carports; exterior porches; unheated entry areas, such as mud rooms, that are adjacent to an exterior door; and similar areas.						
APPENDIX AWV FIRE SPRINKLERS							
	Fire Sprinklers	AWV			Keep Existing Amendment		
	Appendix AWV—Fire sprinklers. The provisions contained in this appendix are not mandatory unless specifically referenced in the adopting ordinance						
	Fire Sprinklers	AWV107.1			Keep Existing Amendment		
	AWV107.1 Fire sprinklers. An approved automatic fire sprinkler system shall be installed in new one-family and two-family dwellings and townhouses in accordance with Appendix AWU.						
APPENDIX AWY CONSTRUCTION AND DEMOLITION MATERIAL MANAGEMENT							

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