

Washington State Building Code Council • Code Change Cycle 2021 Group 1

2021 International Building Code Review Worksheet

2021 Code Section	2018 Code Section	Title or Subject	Reviewer Comments	Costs (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendations
Chapter 1 Administration						
103, 107, 113	103, 107, 113	103 – Code Compliance Agency 107 – Construction Documents 113 – Means of Appeals	Numerous revisions in format were made to provide consistent language for administrative provisions between all the I-Codes	N	N	
110.3.5	N/A - New	Type IV Connection Protection	Inspection language has been modified in this chapter, applicable only to construction types IV-A, B, C that deals with connections where fire resistance is provided by wood cover to clarify inspection is necessary	N	N	
110.3.7	110.3.6	Inspections of Weather Exposed Balconies	Introduction of a defined term of “weather-exposed surfaces” to allow for more consistent application of code requirement for inspection and deletes the requirement for inspection due to just irrigation.	N	N	
						Approve all recommendations
Chapter 2 Definitions						
202	202	Atrium	Modification – atrium now addresses two conditions 1) Vertical space enclosed at the top 2) Atrium typically connects three or more stories.	N	N	
202	202	Change of occupancy	Modification – The scope of a change of occupancy has been narrowed where no classification change takes place.	N	N	
202	202	Impact Protective System	Addition - assemblies designed to withstand airborne debris	N	N	
202	202	Mass Timber	Addition – Mass timber now defined as representative of both the large wood building elements historically recognized as Heavy Timber (IV-HT) construction and the three new construction types (IV-A IV-B IV-C)	N	N	

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202	202	Nailable Substrate	Additions – Defined to clarify what materials should be expected to provide withdrawal resistance for roof or wall cladding assemblies	N	N	
202	202	Penthouse	Clarification – slightly revised to ensure that enclosures extended to the roof in order to house stairways are considered as penthouses	N	N	
202	202	Perimeter fire containment system	Added - New definition	N	N	
202	202	Permanent Individual truss member Diagonal bracing	Added - new definition	N	N	
202	202	Permanent Individual truss member restraint	Added – new definition	N	N	
202	202	Porcelain Tile	Added - New Definition	N	N	
202	202	Positive Roof Drainage	Modification – Scope broadened to include all design loads and sufficient additional slope	N	N	
202	202	Preservative Treated Wood	Addition - New definition	N	N	
202	202	Puzzle Room	Addition – New definition	N	N	
202	202	Secondary Structural Members	Modification – Includes bearing wall at end of definition	N	N	
202	202	Shear Wall	Modification – Definition only applied to Chapter 23	N	N	
202	202	Special Amusement Area	Modified – Simplifies definition into 3 parts	N	N	
202	202	Special Event Structure	Addition – New Definition	N	N	
202	202	Spray Applied Foam Plastic	Addition - New definition	N	N	
202	202	Storage Racks Steel Cantilevered	Addition – New Definition	N	N	

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202	202	Terminated Stops	Addition - New Definition	N	N	
202	202	Underpinning	Addition – New Definition	N	N	
202	202	Vapor Diffusion Port	Addition – New Definition	N	N	
202	202	Windborne Debris Region	Modified – mean water highline where an exposure D condition exists upwind at the waterline changed”	N	N	
						Approve all recommendations
Chapter 3 Occupancy Classification and Use						
303.1.5	None	Special Amusement areas	Provides a pointer to Section 411	N	N	
304.2	None	Airport traffic control towers	Provides a pointer to Section 412.2	N	N	
304.3	None	Ambulatory care facilities	Provides a pointer to Section 422	N	N	
304.4	None	Higher education laboratories	Provides a pointer to Section 428	N	N	
305.3	None	Storm Shelters in Group E occupancies	Storm shelters required for Group E occupancies where req'd. by Section 423.5	N	N	May be fiscal impact in Section 423.5

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310.4.2	310.4.2	Lodging houses	<p>Allows construction in accordance with IRC provided an automatic sprinkler system is installed in accordance with Sections 903.3.1.3 or P2904</p> <p>310.4.2 Lodging houses. Owner-occupied lodging houses with five or fewer guest rooms and 10 or fewer total occupants shall be permitted to be constructed in accordance with the International Residential Code, provided that an automatic sprinkler system is installed in accordance with Section 903.3.1.3 or Section P2904 of the International Residential Code.</p> <p>IBC Section 903.2.8 requires fire sprinklers for all Group R occupancies. If the lodging house is built under IBC, fire sprinklers will be required. IRC Section R313.2 requires sprinklers for all one- and two-family dwellings. If the model code language is applied, there is no difference between IRC and IBC pertaining to the fire sprinkler requirements for lodging houses. WA State doesn't adopt R313.3, so fire sprinklers are not required for one- and two-family dwellings.</p>	Y	Y Not done	Need to correlate with the IRC with regards to 1) how P2904/App U are addressed and 2) existing IRC R101.2 amendment on number of rooms vs sprinkler requirement; Could be a reduction in cost if built under IBC, rather than IRC, using IRC sprinkler requirements
						Approve all recommendations
Chapter 4 Special Detailed Requirements Based on Occupancy and Use						
406.6.4 through 406.6.4.4	None		New requirements for Mechanical-access enclosed parking garages.	Y	N	
407.2.7	None		Cooking appliances used in domestic cooking facilities in Group I-2 – adds six new conditions.	Y	Y Not done	Term is undefined and could cause confusion in enforcement

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407.6.1	407.6		New requirements for automatic-closing doors on hold-open devices– the automatic release on one hold-open device shall release all such doors within the same smoke compartment.	Y	N	
420.9	420.9		Group I-1, cooking appliances installed in domestic cooking facilities – added five new requirements	Y	Y Not done	Term is undefined and could cause confusion in enforcement
422.7	None		Ambulatory Care Facilities - cooking appliances installed in domestic cooking facilities – added five new requirements	Y	N	Term is undefined and could cause confusion in enforcement
						Approve all recommendations
Chapter 5 General Building Heights and Areas						
503.1.4		Occupied Roof Allowances	Clarification: Occupied roofs have been clarified for a more consistent application of the codes intent	N	N	
Table 504.3		Allowable height in feet.	Addition: Height limits in feet above grade plane have now been established; addressing mass timber types of construction (IV-A IV-B IV-C)	N	N	
Table 504.4		Allowable height in stories	Addition: Height limits in stories above grade plane have been established for mass timber construction increases in allowable height for S-1 occupancies	N	N	
Table 506.2		Allowable building area	Addition: Building area limitations established for the three new mass timber construction types; Increase in single story floor area for group I-3 occupancies of type 2A construction	N	N	
506.3.2		Allowable area frontage increase	Modification: simplified the methodology for allowable area increase for frontage through the use of a tabular format	N	N	

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508.4.4		Separated Occupancies	Clarification: Format change to table 508.4.4 addressing separated occupancies is intended to eliminate confusion regarding tables proper use.	N	N	
508.4.4.1 509.4.4.1		Fire Separations of mass timbers	Addition: using mass timber as a fire separation including thermal barriers	N	N	
508.5		Live/Work Unit	Clarification: changed from special use provisions of chapter 4 to mixed occupancy provisions of section 508. No change to technical requirements.	N	N	
509.1		Storage Battery systems as incidental uses	Modification: Stationary storage battery systems as incidental uses and corresponding fire separations required for uses have been deleted from table 509.1 and are now regulated by section 1207 of the IFC	N	N	
510.2		Stairway Construction in Podium Buildings	Modification: Stair ways may be constructed out of combustible material depending on location if building combustible or non-combustible buildings	N	N	Combustible construction allowed for entire stairway
						Approve all recommendations
Chapter 6 Types of Construction						

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Table 601	Table 601	Fire-resistance rating requirements for building elements (hours)	The minimum required fire-resistance ratings for the building elements of structures classified as one of the new construction types (Types IV-A, IV-B and IV-C) is added to Table 601. This model code change aligns with the existing state amendment.	N	N	may have proposed amendment addressing concerns
			Footnote c has historically allowed the use of heavy timber in lieu of the 1-hour rated roof construction that is required for many construction types. Because there is a separate row in the table addressing primary structural frame elements, its application to such elements has been in question. The footnote has been modified allowing all components of the roof construction, including structural frame members, to consist of heavy timber.	N	N	
			The new footnote g, applicable only to Type IV-HT construction, requires heavy timber interior bearing walls supporting more than two floors, or a floor and a roof, to be fire-resistance-rated for at least 1 hour. With its application typically utilized for vertical elements in mid-rise buildings, this mandate may result in an increase in wall thickness in exposed heavy timber interior bearing walls supporting multiple stories in order to provide the minimum 1-hour rating.	Y	N	
602.4 (602.4.1 – 602.4.4.3)	602.4	Type IV construction	While the past allowances for Type IV buildings have been maintained as Type IV-HT construction, three new construction types (IV-A, IV-B, and IV-C) have been introduced to recognize other forms of mass timber construction. The model code changes in Section 602.4 and all subsections align with the existing state amendments.	N	N	
603.1	603.1	Allowable materials in Types I and II construction	In buildings of Type I and II construction, the allowance for the use of fire-retardant-treated wood in shaft enclosure and roof construction has been modified for Group I-2 buildings. In addition, the use of wood nailers for parapet flashing and roof cants is permitted in all buildings.	N	N	

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Chapter 7 Fire and Smoke Protection Features						
703.2	703.2	Fire resistance	The section is reorganized; the testing procedures are relocated in Section 703.2.1.	N	N	
703.2.3 New	N/A	Approved alternate method for fire resistance	Allows the fire resistance of building elements, components or assemblies to be established by an alternative protection method in accordance with Section 104.11.	N	N	
703.3.1	703.5.1	Noncombustible materials	Section 703.3.1, including the exception, is a reformatted version of Sections 703.5.1 (Elementary materials) and 703.5.2 (Composite materials) from 2018 IBC. New alternative testing method is added, allowing materials required to be noncombustible to be tested in accordance with ASTM E2652 using the acceptance criteria prescribed by ASTM E136.	N	N	
703.6	703.8	Determination of noncombustible protection time contribution	New section in 2021 IBC; replaces existing state amendment.	N	N	
703.7	703.9	Sealing of adjacent mass timber elements	New section in 2021 IBC; replaces existing state amendment.	N	N	
704.4	704.4	Protection of secondary structural members	Adds "structural" to the title and the text.	N	N	

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704.6.1	704.6.1	Secondary attachments to structural members	New section in 2021 IBC; replaces existing state amendment with small wording differences. The existing amendment addresses secondary (nonstructural) tubular attachments to structural members while the model code doesn't specify the secondary attachments are nonstructural and tubular.	N	N	
705.2.3	705.2.3	Projection protection	Section 705.2.3 is retitled and modified to address projection protection and not only combustible projections. This is intended to be a clarification, not a change to the technical requirements.	N	N	
705.5; Table 705.5	705.5; Table 602	Fire-resistance ratings	Provides a reference to Table 705.5. Table 602 dealing with exterior wall fire-resistance ratings based on fire separation distance has been relocated to Section 705 for inclusion with the general exterior wall requirements. The table is also revised to include the new mass timber construction types.	N	N	
706.1.1	706.1.1	Party walls	Adds the term "party walls" to Exception 2 (currently only the term "fire walls" is used). This clarifies that walls constructed in accordance with Exception 2 are allowed to have penetrations in accordance with the restrictions stated in the exception. Editorial modifications replace the term "code official" with "building official"	N	N	
706.6.1	706.6.1	Stepped buildings	The new model code language aligns with the existing state amendment in this section.	N	N	
707.4	707.4	Exterior walls	The new model code language aligns with the existing state amendment in this section, and also adds a new exception. The new exception addresses exterior walls required to be fire-resistance rated in accordance with Section 1207 of the International Fire Code for enclosure of energy storage systems.	N	N	
707.5	707.5	Continuity	Adds Exception 3, which aligns with the existing state amendment in this section.	N	N	

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708.1	708.1	Fire partitions, General	Section 708.1 is corrected by completing the listing of locations where fire partitions are already recognized – walls separating ambulatory care facilities from adjacent spaces, corridors or tenant as required by Section 422.2; walls separating dwelling and sleeping units in Groups R-1 and R-2 in accordance with Sections 907.2.8.1 and 907.2.9.1; vestibules in accordance with Section 1028.2. Additionally, the exception in Section 708.4.1 that allows fire partitions to be supported by non-rated floors in Types IIB, IIIB and VB construction is expanded to include fire partitions that create separations in ambulatory care facilities, those in Groups R-1 and R-2 that are installed to modify required fire alarm provisions, and those creating a vestibule regulated as an interior exit discharge element.	N	N	
708.4.1	708.4.1	Supporting construction	See Section 708.1	N	N	
709.4.1	709.4.1	Smoke-barrier assemblies separating smoke compartments	Smoke barrier and smoke compartment continuity is clarified through revisions to the definition of smoke compartment and enclosure provisions in Section 709.4.1. The definition now focuses on separations isolating “interior areas of the building” and clarifies that both walls and horizontal assemblies can create these separate compartments. Section 709.4.1 provisions addressing smoke barrier continuity addresses two issues. First, the separation between adjacent smoke compartments may include both walls and horizontal assemblies (currently walls only are addressed). The second revision recognizes that smoke barriers are permitted to terminate at other smoke barriers and are not always required to extend to an exterior wall. Changing that smoke barrier walls can “begin and end” at another smoke barrier wall, instead of just outside wall to outside wall provides an increase design flexibility in all types of care facilities. It also is comparable to the language for separation of areas of refuge and elevator lobbies in Section 709.4.2.	N	N	

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710.5.3 New	N/A	Pass-through openings in Group I-2, Condition 2.	Adds requirements for pass through openings in Group I-2 Condition 2 to recognize important operational functions in the context of the corridor wall. This new section will increase the cost of construction because it allows extra features to be added to an opening. However, it does not add cost to the healthcare industry because these requirements are already followed in the context of the federal standard.	N	N	
712.1.7	712.1.7	Atriums	The definition for Atrium in Chapter 2 was modified. Modified Section 712.1.7 brings some of the language from the old definition into the actual code requirement and revises the language to be easier to understand.	N	N	
713.12	713.12	Enclosure at top	Revisions help clarify how the top of a shaft is permitted to be terminated. The format mirrors Section 713.11 for the bottom of the shaft and identify the common termination conditions and their requirements. These three termination conditions already exist in the code; this revision does not create any technical change to the code requirements.	N	N	
713.12.1 New	N/A	Penthouse mechanical rooms	Recognizes that not every penetration or opening that pierces a roof requires protection. Where a mechanical penthouse provides an extension of a shaft enclosure from below, it has been clarified that neither a fire nor smoke damper is required at such penetrations provided all ductwork in the shaft enclosure is directly connected to heating, ventilation and HVAC equipment. By clarifying how shafts are terminated at the top should reduce cost of construction, confusion and unnecessary installation of dampers.	N	N	
715	715	Joints and voids (Fire resistant joint systems in 2018 IBC)	The provisions for joints and voids have been reformatted and clarified to provide for more consistent application. Most of the revisions are editorial in nature and will not impact the application of the requirements. Other changes clarify the provisions by using more consistent terminology and more descriptive section titles.	N	N	

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TABLE 716.1(2)	TABLE 716.1(2)	Opening fire protection assemblies, ratings and markings	Appropriate opening protection is now addressed where two doors are used to protect a single opening, such as between adjacent hotel rooms or where a double fire wall is constructed. The code change proposal will not increase or decrease the cost of construction. This code change proposal is only making a requirement more clear for a specific application. It is reasonable to assume that this is how the code is typically enforced for this application anyways so there will likely not be an increase or decrease in the cost of construction.	N	N	
716.2.2.1 .1	716.2.2.1. 1	Smoke and draft control	New language prohibits the use of "terminated stops" on door frames of doors providing smoke and draft control protection at elevator lobbies. Terminated stops are now defined. This modification addresses what is currently allowed and prohibited in the code, but not explicitly "spelled out".	N	N	
716.2.5.4 .1 New	N/A	Energy storage system separation	Additional new construction parameters related to enclosures for energy storage systems are now in IBC to supplement the IFC operational requirements for these systems. To both adequately isolate and protect energy storage systems from potential thermal runaway, the use of glazing with only a fire-protection rating is prohibited in fire-resistance-rated walls that are a portion of the enclosure of energy storage systems. The new section will increase the cost of construction specific to energy storage systems, but is negligible compared to the overall cost of compliance when installing energy storage systems.	N	N	
716.3.2.1. 1.1 New	N/A	Energy storage system separation	See Section 716.2.5.4.1	N	N	

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716.4 New	N/A	Fire protective curtain assembly	Labeling and performance requirements for fabric fire-protective curtain assemblies have been established. The use of the fire protective curtain assembly is an option and as such, atria enclosures can continue to be constructed as currently permitted.	N	N	
717.2.3 New	N/A	Static dampers	New section permits the use of static ceiling radiation dampers where controls are used to shut down the airflow. This section is coordinated with Sections 717.3.1 (Damper testing), 717.6.2.1.1 (Dynamic systems), 717.6.2.1.2 (Static systems), and the definition of Ceiling radiation damper. Changes in these sections do not increase the cost of construction. All modifications are relocation of existing installation requirements for ceiling radiation dampers to the appropriate code sections. (See detailed rational for this change in IBC Significant changes)	N	N	
717.3.3.1	717.3.3.1	Fire damper actuation	Uses the term "Primary heat responsive device," which is consistent with the terminology used in UL 555. The change in the title is consistent with the title used for smoke damper actuation.	N	N	
717.4	717.4	Access and identification	The amended section provides key information in the IBC regarding access to fire and smoke dampers. The access is needed for periodic testing required by the IFC. The revisions in Section 717.4 are primarily an editorial reformatting of the existing provisions. Sections 717.4.1, 717.4.1.1 and 717.4.2 address the need for access, the access opening itself and the identification of the access point. The only technical change is the specific size requirement of a minimum 12-inch by 12-inch opening.	N	N	
717.5.2	717.5.2	Fire barriers.	An allowance to eliminate fire dampers where a fully ducted HVAC system is provided has been modified to permit the use of flexible connections.	N	N	

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717.5.3 717.5.3.1 (New)	717.5.3 N/A	Shaft enclosures Continuous upward airflow	Where ducts are used to create the continuous upwards airflow, penetrations of these ducts into and out of shaft will now be required to be protected with a through-penetration firestop system in lieu of a fire and smoke damper.	N	N	
717.6.2.1.1 New	N/A	Dynamic systems	See comment for Section 717.2.3	N	N	
717.6.2.1.2 New	N/A	Static systems				
718.2.1	718.2.1	Fireblocking materials	The model code modification is consistent with the existing state amendment	N	N	
722.1	722.1	Calculated fire resistance, General	Editorial	N	N	
722.7	722.7	Fire-resistance rating for mass timber	New model code language in Section 722.7, including tables and subsections, aligns with the existing state amendment. There are minor differences which will be further evaluated.	N	N	
						Approve all recommendations
Chapter 8 Interior Finishes						
806.9 New Section	N/A	Combustible lockers	The regulation of combustible lockers, previously limited to Section 808.4 of the IFC, is now also addressed in the IBC. This allows for regulation before and during construction rather than only after occupancy during a fire service inspection.	N	N	Approve all recommendations
Chapter 9 Fire Protection and Life Safety Systems						
901.1	901.1	Scope	Added the wording 'and Life Safety Systems'	N	N	
902.2	902.2	Fire Protection Systems	Added the wording 'and Life Safety Systems'	N	N	
903.2.4.2	New	Group F-1 distilled spirits	Sprinklers now required for distilled spirits manufacturing	Y	N	Also look at possible amendment

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903.2.4.3	903.2.4 Item 4	Group F-1 upholstered furniture or mattresses	Relocated and clarified that the threshold is a fire area of 2,500 square feet	N	N	
903.2.7.2	903.2.7 Item 4	Group M upholstered furniture or mattresses	Relocated and clarified that the threshold is a fire area of 5,000 square feet	N	N	
903.2.9.3	New	Group S-1 distilled spirits or wine	Sprinklers now required for bulk storage of distilled spirits or wine; no square footage established. No definition of 'bulk storage' established.	Y	Y Not done	My opinion that this is poorly written and needs clarification. Why is wine added to this section and not 903.2.4.2?
904.2.9.4	903.2.9.3	Group S-1 upholstered furniture or mattresses	This was our Washington State Amendment that is now in the code. Clarifies the 2,500 square feet as a fire area.	N	N	
903.2.10	903.2.10 Item 1	Group S-2 parking	Added a reference to Section 406.6 (requirements for enclosed parking garages)	N	N	
903.2.10	903.2.10 Item 2	Group S-2 parking	Added a reference to Section 406.6 (requirements for enclosed parking garages)	N	N	
903.2.10 Item 3	New	Group S-2 parking garages	Open parking garages exceeding 48,000 square feet now requires sprinklers.	Y	N	
903.2.10.2	New	Mechanical access parking garages	Requires sprinklers for this relatively new type of occupancy/hazard.	Y	N	
903.2.11.6	903.2.11.6	Other required fire protection systems	Change of wording from 'suppression' to 'fire protection'	N	N	
Table 903.2.11.6	Table 903.2.11.6	Other required fire protection	Change of wording from 'suppression' to 'fire protection'	N	N	
Table 903.2.11.6	Table 903.2.11.6	Other required fire protection	Changed of wording to delete the word 'Children's' from in front of 'Play Structures'	N	N	

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903.3.1.2	903.3.1.2	NFPA 13R fire sprinkler systems	Now limits 13R systems to 30 feet floor level, limit was 60 feet floor level previously.	Y	N	WABO will be submitting amendment
903.3.1.2.2	903.3.1.2.2	Corridors and balconies in the means of egress	Clarifies when corridors and egress balconies are required to be sprinklered in NFPA 13R structures.	N	N	
903.3.1.2	903.3.1.2	Attics	Added a reference to fire department access requirements in Section 503.	N	N	
903.3.2	903.3.2	Quick response and residential sprinklers	Added a sprinkler requirement for Group I-2 (hospitals, nursing homes, etc) for smoke compartments that contain gas burning fire places or gas appliances.	N	N	They will have this type of sprinkler head most of the time anyway.
903.4	903.4.1	Sprinkler system supervision and alarms	Relocated requirement only.	N	N	
904.12	904.14	Aerosol fire extinguishing systems	Relocated requirement only.	N	N	
904.14	904.13	Domestic cooking facilities	Name change from 'Domestic cooking systems'	N	N	
905.3.8	905.3.8	Landscaped roofs	Name change from 'Rooftop gardens and landscaped roofs'			
906	906	Portable fire extinguishers	Added an Exception 3, no fire extinguishers required in Group S and Group U if the forklifts/tractors have fire extinguishers on them.	N	N	
907.2.2	907.2.2	Group B	Added 'which activates the occupant notification system in accordance with Section 907.5'	N	N	
907.2.3	907.2.3	Group E	Changed 'is not' to 'shall not' and added Item 3.4 option for 'Manual activation is provided from a normally occupied location'.	N	N	
907.2.10	New	Group S	Now requires a manual fire alarm system for public storage buildings 3 story or higher if not fire sprinklered.	Y	N	Small impact as most of these will be sprinklered.

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907.2.13.2	907.2.12.2	Fire department communication	Added option for 'in building 2-way communication system' instead of 'emergency responder radio system' only.	N	N	
907.2.23	907.2.23	Energy storage systems	Added option for 'radiant energy detection systems'.	N	N	
907.4	907.4	Initiating devices	Mostly a relocation of items from 907.5	N	N	
907.4.2.4	907.4.2.4	Signs	Clarification by adding the word 'approved' supervisory station.	N	N	
907.5	907.5	Occupant notification	Mostly a reorganization of the section.	N	N	
907.5.2.1.2	907.5.2.1.2	Maximum sound pressure	Changes the minimum pressure of '95' to '105'.	N	N	
907.5.2.1.3	New	Audible signal frequency in Group R-1 and R-2 sleeping rooms.	Adds the low frequency requirements to the code, instead of just having them in NFPA 72.	N	N	
907.5.2.3	907.5.2.3	Visible alarms	Added a design alternative for Group I-2, condition 2 for a strobe only located at the nursing station.	N	N	
907.5.2.3.3	907.5.2.3.3	Group R-2	Added the word 'future'	N	N	
907.5.2.3.3.1	New	Wired equipment	Clarifies 'future' wiring requirements.	N	N	
907.6.4.2	907.6.4.2	High rise buildings	Changed 'fire detection or suppression systems' to 'fire protection systems'.	N	N	
907.6.6.1	907.6.6.1	Transmission of alarm signals	Monitoring it yourself is not permitted unless approved.	N	N	
908.3	New	Fire alarm system interface	Clarifies emergency alarm system signals shall be only supervisory alarms on the fire alarm panel.	N	N	

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909.17	909.17	System response time	Added a 90 second time limit for smoke control units to achieve proper operating state.	N	N	
909.20	909.20	Smokeproof enclosures	Added 'pressurized stairway or entrance vestibules' as a new design option.	N	N	
909.20.6	New	Smokeproof enclosures	Added 'pressurized stairway or entrance vestibules' as a new design option.	N	N	
910.3.4	New	Ventilation operation	Added a new alternate method.	N	N	
910.3.5	New	Fusible link temperature rating	Clarifies fusible link temperature requirements.	N	N	
911.1	911.1	Fire command center	Now required for Group F-1 and S-1 over 500,000 square feet.	Y	N	Not a lot of these built to this size.
911.7	new	Fire command center	Signage required.	N	N	
913.1	913.1	Fire pumps	Clarifies fire pump requirements.	N	N	
913.2.2	913.2.2	Circuits supplying fire pumps	New 4 th option here.	N	N	
918	918	Emergency Responder communication coverage	Editorial change.	N	N	
						Approve all recommendations
Chapter 10 Means of Egress						
1003.5 Exception 1	1003.5 Exception 1	Elevation change	Consolidation of requirements into 1010.1.4	N	N	
1006.2.2	1006.2.2	Egress based on use	Added language to capture all means of egress components	N	N	
1006.2.2. 2	1006.2.2. 2	Refrigeration machinery rooms	Panic hardware required	N	N	

2021 Code Section	2018 Code Section	Title or Subject	Reviewer Comments	Costs (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendations
1006.3.1	New	Occupant load (occupied roofs)	Clarifies that a roof occupancy and story below are looked at separately when determining the number of exits – you treat the roof occupancy like a story	N	N	
1008.2.1	1008.2.1	Means of egress illumination under normal power	Adds requirement for 10 footcandles at the floor in exit and exit access stairways when they are in use	Y	N	May require additional fixtures for LED to deliver required light
1009.2.1	1009.2.1	Elevators required	Model code adopts state language about elevators and occupied roofs.	N	N	
1009.6.3	1009.6.3	Area of refuge size	Increases from 30x48 to 30x52	Y	N	
1009.8.1	1009.8.1	Two-way communication system requirements	Adds 'approved supervising station'	N	N	Pretty much where they were going previously; just a clarification
1010.1.3	1010.1.3	Forces to unlatch and open doors	New language adding requirements to forces needed to unlatch doors by rotating hardware (ie lever)	N	N	
1010.1.3.2	New	Manual horizontal sliding doors	Sliding doors required to latch have to have mechanism to prevent rebounding when door is closed	N	N	
1010.2	1010.1.9.6	Door unlatching	'one operation' replaced with 'one motion in a single linear or rotational direction'	N	N	
1010.2.4	1010.1.9.4	Locks and latches	New exceptions for decks and patios	N	N	
1010.2.8	1010.1.4.4	Locking arrangements in educational occupancies	Adds reference to NFPA 80 for door modifications	N	N	
1010.2.9.1	1006.2.2.2	Refrigeration machinery rooms	Requires panic hardware for 1000 SF or larger refrigeration rooms	N	N	
1010.2.9.2	1010.1.10	Rooms with electrical equipment	Requires panic hardware when 800 amps or more	N	N	

2021 Code Section	2018 Code Section	Title or Subject	Reviewer Comments	Costs (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendations
1011.6	1011.6	Stairway landings	Adds exceptions for curved stairways	N	N	
1011.11	1011.11	Handrails	Adds exception for handrails when a platform lift serves not more than 2 risers	N	N	
1015.2	1015.2	Guards	Adds exception for rail platforms	N	N	
1017.3	1017.3	Exit access measurement	Clarifies that when two or more exits are provided measurement is taken to nearest exit	N	N	
1017.3.2	New	Exit access – Atriums	New section clarifying how to deal with exit access and atriums	N	N	
1020.1	1020.1	Corridors – general	Clarifies that only corridors serving as part of a means of egress need to comply	N	N	
1020.4	1020.4	Dead ends	New exception for I2 in areas not including patient rooms – accommodates state amendment	N	N	
1023.2	1023.2	Interior Exit Stairway – construction	New exception for stairways in accordance with 510.2 – accommodates state amendment	N	N	
1023.5	1023.5	Interior Exit Stairway – penetrations	New exception for structural elements supporting the stair/stair shaft – accommodates state amendment	N	N	
1023.8	1023.8	Barrier at level of exit discharge	Title change so that you can actually find it	N	N	
1023.11	1023.9	Tactile floor-level signs	Accessible signage is pulled out of 1023.9 and put in its own section	N	N	
1024.8	NEW	Exit passageway exterior walls	Section clarifying how to treat exterior walls on exit passageways – accommodates state amendment	N	N	
1028/1029	1028	Exit discharge/egress courts	Exit discharge and egress courts separated into two sections no new requirements	N	N	
1030.6.3.1	NEW	Automatic sprinklers – open-air assembly seating	Section clarifies requirements for sprinklers where otherwise open assembly spaces are enclosed	N	N	

2021 Code Section	2018 Code Section	Title or Subject	Reviewer Comments	Costs (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendations
1030.13.2 .1	1029.13.2.1	Assembly aisle accessways	Table revised to clarify ranges	N	N	
1030.16	1029.16	Handrails – assembly	Section brings in handrail requirements from 1014 instead of just referencing them	N	N	
1031	1030	Emergency escape and rescue openings	Section is reorganized using better code language; modified for readability, ease of use	N	N	
						Approve all recommendations
Chapter 11 Accessibility						
Chapter 35 Referenced Standards		2017 ANSI A117.1	Chapter 11 refers to ANSI; the referenced standard in Chapter 35 is 2017 ANSI. There are significant changes compared to 2009 ANSI, referenced in 2018 IBC. <ul style="list-style-type: none"> Enhanced dimensions for clear floor spaces and turning spaces. (New buildings only). Recognizes spaces needed by persons using scooters and motorized wheelchairs. Modified provisions for exterior routes, curb cuts, blended transitions, accessible parking for consistency with the federal Public Rights of Way Accessibility Guidelines (PROWAG) New provisions for electrical vehicle charging stations and acoustic standards for classrooms. 	Y	N	
1104.4 Exc. 1.5	None	Multistory buildings and facilities; exception for accessible routes to stories with aggregate area of not more than 3,000sf.	A new exclusion (structures with 4 or more dwelling units) for applying Exception 1 is added for coordination with the Fair Housing Act. The restriction is intended to address smaller efficiency units and avoid conflicts with the FHA requirements, and to ensure the exception is consistent with the provisions for Type B units in the IBC.	Y	N	
1105.1.1	1105.1.8	Automatic doors	New model code language replaces an existing WA amendment in Section 1105.1.8	N	N	
1106.6.1	1106.6.1	Parking and passenger loading facilities, General	Section 1106 is reformatted with no changes in regulatory effect	N	N	

2021 Code Section	2018 Code Section	Title or Subject	Reviewer Comments	Costs (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendations
1106.8	New	Parking meters and pay stations	Requires parking meters and pay stations serving accessible parking spaces to be accessible.	N	N	
1107	New	Electric vehicle charging stations	Provides new requirements for EV charging stations. Exempts EV charging stations serving Group R-2, R-3 and R-4 occupancies. The exception conflicts with WA Building Code Section 427.5, which requires one accessible parking space to be served by EV charging infrastructure if the infrastructure is required (including for R-2 occupancies). Amend 1107.2 (Exc.) or WBC Section 427.5.	N	Y Done	
1108.5.1.1	1107.5.1.1	Group I, Accessible units	New model code language replaces an existing WA amendment in Section 1107.5.1.1. The model code section adds new requirements for the accessible units to be dispersed among the various classes of units.	N	N	
1108.5.1.2	1107.5.1.2	Accessible units Group I-1, Condition 2.	New model code language replaces an existing WA amendment in Section 1107.5.1.2. The model code section adds new requirements for the accessible units to be dispersed among the various classes of units.	N	N	
1108.5.2.1	1107.5.2.1	Group I-2 nursing homes; Accessible units	New model code language replaces an existing WA amendment in Section 1107.5.2.1.	N	N	
1108.5.4	1107.5.4	Group I-2 rehabilitation facilities	New model code language replaces an existing WA amendment in Section 1107.5.2.1.	N	N	
1110.2	1109.2	Toilet and bathing facilities	New model code language replaces an existing WA amendment in Section 1107.5.2.1 (Exceptions 7 & 8).	N	N	
1110.2.2	1109.2.4	Water closets designed for assisted toileting	New model code language replaces existing WA amendments in Section 1109.2.4. This includes subsections 1110.2.2.1 through 1110.2.2.6.	N	N	
1110.2.3	1109.2.5	Standard roll-in-type shower compartment designed for assisted bathing	New model code language replaces existing WA amendments in Section 1109.2.5. This includes subsections 1110.2.3.1 through 1110.2.3.9.	N	N	

2021 Code Section	2018 Code Section	Title or Subject	Reviewer Comments	Costs (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendations
1110.6	New	Bottle-filling stations	Requires bottle-filling stations, if provided, to be accessible (with exception)	N	N	
1110.13.2	1109.12.3	Sales and service counters and windows	The title (Point of sale and service counters) is modified to read "Sales and service counters and windows." The text is also modified to match modifications in 2017 ANSI A117.1. The addition of "windows" into this section clarifies that sales and service windows are required to be accessible whether a counter is provided at that location or not.	N	N	
1110.15	1109.13	Controls, operating mechanisms and hardware	Five exceptions are replaced with a new reference to ANSI A117.1 for coordination purposes.	N	N	
1111.4.14	1110.4.1 4	Swimming pools, wading pools, cold baths, hot tubs and spas	Adds "cold baths" to the title and the text.	N	N	
1111.4.15	1110.4.1 5	Shooting facilities with firing positions	Adds a new exception for shooting facilities with firing positions on free-standing platforms elevated more than 12 feet above grade	N	N	
						Approve all recommendations
Chapter 12 Interior Environment						
1202.3	1202.3	Insulation of Unvented	Added: A new option is available for the regulation of unvented attics with air-permeable insulation and vapor diffusion ports in warmer climates. This is an alternative to assist with energy efficiency.	N	N	Any cross-over or conflict w/energy code?
1207	N/A - New	Enhanced Classroom Acoustics	Added: New section to require educational occupancies to meet enhanced classroom acoustic requirements of Section 808 of ICC A117.1	Y	N	
1208.4	1207.4	Efficiency Dwelling Units	The minimum required floor area of an efficiency dwelling unit has been reduced to 190 sf and a definition of an efficiency dwelling unit has been added.	N	N	Delete state amendment

2021 Code Section	2018 Code Section	Title or Subject	Reviewer Comments	Costs (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendations
1210.3	1209.3	Restroom Privacy	Requires a screening element at the entry to a restroom due to privacy concerns for public restrooms	Y	N	Keep state amendment for gender neutral language.
						Approve all recommendations
Chapter 14 Exterior Walls						
1402.5	1402.5	Water-resistive barriers	This section is re-titled and a new reference to Section 703.3 is added pertaining to determination of combustibility. Exception 2 is reorganized.	N	N	
1403.2	1403.2	Water-resistive barrier	This section is reorganized, and two more options for compliance are provided for water-resistive barriers - ASTM E2556 for Type I or II; ASTM E331 in accordance with Section 1402.2.	N	N	
1403.14 New	N/A	Attachments through insulation	Provides a reference to Sections 2603.11, 2603.12, or 2603.13 for exterior wall coverings attached to the building structure through foam plastic insulating sheathing.	N	N	
1404.3 Includes all subsections and Tables 1404.3(1), 1404.3(2), 1404.3(3),	1404.3	Vapor retarders	Vapor retarder provisions have been reorganized to make them more user-friendly, utilizing new tables and text to assist the designer in selecting appropriate vapor retarders for the climatic conditions and desired vapor retarder class.	N	N	
Table 1404.3.1	N/A	Continuous Insulation with Class II Vapor Retarder	Table 1404.3.1 assigns minimum continuous insulation R-values where Class II vapor retarders are installed. Modified Section 1404.3 allows the use of a Class II interior vapor retarder where foam plastic insulating sheathing is used as continuous insulation on the exterior of buildings. This modified provision is intended to coordinate requirements for vapor retarders with typical insulation requirements found in the IECC for wood-framed wall assemblies. (Need coordination with the WSEC)	N	N	

2021 Code Section	2018 Code Section	Title or Subject	Reviewer Comments	Costs (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendations
1404.4	1404.4	Flashing	Provides language to coordinate with similar language in the 2018 IRC Section R703.4 which appropriately recognizes that some flashing applications necessarily direct water to the water-resistive barrier surface where it is subsequently drained at flashing or weeps extending through the exterior wall covering.	N	N	
1404.10.2	1404.10.2	Exterior adhered masonry veneers—porcelain tile	Existing language allows adhered units with maximum 5/8 inch thickness, 24 inches in any face dimension, 3sf in total face area, and 9 psf weight. The modified language is more specific, doesn't address the thickness of the unit, sets the maximum weight to 6 psf, and provides two sets of requirements – for adhered units weighing up to 3.5 psf and adhered units between 3.5psf and 6psf.	N	N	
1404.14	1404.14	Vinyl siding	Allows the use of vinyl siding on exterior walls where the design wind pressure is up to 30 psf. Requires tests or calculations indicating compliance with Chapter 16 if the design wind pressure is above 30 psf. In 2018 IBC, the use of vinyl siding is based on allowable stress design wind speed (Vasd) and building height.	N	N	
1404.14.1 .1 1404.14.1 .2 1404.14.1 .3	N/A	Fasteners and fastener penetration for wood construction, cold-formed steel light-frame construction, and fastener spacing	The information related to fasteners currently in Section 1404.14.1 is in three subsections – 1404.1.1, 1404.1.2, and 1404.1.3. Section 1404.14.1.1, addressing vinyl siding fasteners and fastener penetration for wood construction, directly references the new term “Nailable substrate.” Section 1404.14.1.3 specifies that fasteners shall be installed in the middle third of the slots of the nail hem.	N	N	
1406.10 1406.10.1 1406.10.2	1406.10	Metal Composite Materials (MCM), Types I, II, III and IV construction	Requirements for MCM installed on exterior walls of buildings of Type I, II, III and IV construction have been significantly simplified and limited by the deletion of the alternate conditions previously set forth in Section 1406.11. In other than Type V construction, the installation of MCM panels and MCM systems are now regulated based on one of two thresholds: <ol style="list-style-type: none"> 1. MCMs installed no more than 40 feet above grade plane. 2. MCMs installed more than 40 feet above grade plane. 	N	N	

2021 Code Section	2018 Code Section	Title or Subject	Reviewer Comments	Costs (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendations
1406.12	1406.13	Foam plastic insulation	Editorial modification	N	N	
1408.10.3	1408.10.3	High-pressure decorative exterior-grade compact laminates Thermal barrier not required	This code change proposal makes a revision regarding the reference to testing in accordance with UL 1040 and UL 1715. The references are retained but the option is added to use NFPA 286, with the corresponding criteria in Section 803.1.1.1. NFPA 286 was developed long after UL 1040 and UL 1715 and was not therefore included in every section of the code. Now NFPA 286 is used much more widely than UL 1040 or UL 1715.	N	N	
1408.11.1	1408.11.1	High-pressure decorative exterior-grade compact laminates Installations up to 40 feet in height	The exception for HPL systems up to 50 ft in height not to be tested to NFPA 285 is eliminated. The elimination of the current allowances allowing use of HPL to up to 50 feet on almost all buildings will lead to a more expensive fire-tested product being required for HPL application above 40 feet as fire testing to NFPA 285 will be required.	Y	N	
						Approve all recommendations
Chapter 26 Plastic						
2602.1	2602.1	Exterior wall covering and architectural trim	The title (Exterior finish and trim) is modified to read "Exterior wall covering and architectural trim." The text is also modified to align with the title.	N	N	
2603.1.1 New	N/A	Spray-applied foam plastic	New section specifies single- and multiple-component spray-applied foam plastic insulation shall comply with the provisions of Section 2603 and ICC 1100-2018.	N	N	
2606.7.4	2606.7.4	Automatic sprinkler system	The title (Fire suppression system) is modified to read "Automatic sprinkler system." The current requirement for buildings equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1 mandates plastic light-diffusing systems to be protected both above and below <u>unless</u> the sprinkler system has been specifically approved for installation only above the light-diffusing system. The modified section provides another option for compliance – if the light-diffusing system is listed and labeled in accordance with UL 723S.	N	N	

2021 Code Section	2018 Code Section	Title or Subject	Reviewer Comments	Costs (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendations
2607.5	2607.5	Automatic sprinkler system (for light-transmitting plastic wall panels)	The current language provides requirements for buildings equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1 pertaining to maximum percentage area increase of exterior wall in any story in light-transmitting plastic wall panels and the maximum square footage of a single area given in Table 2607.4, and specifies that such installations are exempt from height limitations. The modified section limits these installations to 75 feet above grade plane.	y	N	Large, tall buildings may have to provide alternate light source or alternate materials
2610.1 2610.1.1	2610.1	Light-transmitting plastic glazing of skylight assemblies.	Reformatting; relocates the requirements for unit skylights, currently in Section 2610.1, to new Section 2610.1.1.	N	N	
						Approve all recommendations
Chapter 27 ELECTRICAL						
2702.1.2	2702.1.2	Fuel-line piping protection	Provides another option for protecting fuel lines supplying a generator set inside a high-rise building through the use of a fire-resistant pipe-protection system tested to UL 1489. Fuel lines supplying stationary generators already require protection in accordance with this section.	N	N	
2702.2.3	2702.2.3	Emergency responder communication coverage systems	2702.2.3 Emergency responder communication coverage systems. Standby power shall be provided for <u>in building 2-way</u> emergency responder communication coverage systems required in Section 918 and the International Fire Code. The standby power supply shall be capable of operating the <u>in-building 2-way</u> emergency responder communication coverage system for a duration of not less than 12 hours at 100-percent system operation capacity.	N	N	
2702.2.4	2702.2.4	Emergency voice/alarm communication systems	Depending on interpretation this could reduce the cost of construction. Overall this will provide code clarity and alignment with NFPA 72 and within the IBC-IFC	N	N	Standby power vs emergency power is a reduction in cost/stringency
						Approve all recommendations

2021 Code Section	2018 Code Section	Title or Subject	Reviewer Comments	Costs (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendations
Chapter 28 Mechanical Systems – No Changes						
Chapter 29 Plumbing Systems						
2902	2902	Minimum plumbing facilities	Multiple clarifications and modifications have been made to the regulation of plumbing facilities to address significant issues of gender and equality of access. There are several existing state amendments in this section. Additional evaluation and site-by-site comparison is necessary to determine how the new model code language affects the existing amendments.	N	Y Not done	Needs to be correlated with our state amendments
2903 NEW	NA	Installation of fixtures	This section brings requirements for installation of plumbing fixtures from IPC. The State of Washington adopts the UPC.	N	Y Not done	Modify section to correlate with UPC, either by reference or incorporate text
						Approve all recommendations
Chapter 30 Elevators and Conveying Systems						
3001.2	3001.2	Emergency elevator communication systems for the deaf, hard of hearing and speech impaired	Additional direction and clarity has been provided regarding the appropriate emergency two-way communication features that are mandated for accessible elevators. This may increase the cost of construction by \$250 (an average of cost of a keyboard component and several visual indicators)	Minimal	N	Coordinate with L&I
3005.4	3005.4	Machine rooms, control rooms, machinery spaces, and control spaces	Editorial	N	N	
						Approve all recommendations
Chapter 31 Special Construction						
3103.1	3103.1	Special Event Structures	Special event structures are now newly defined in Section 202 and are now included in the types of temporary structures that are regulated by the IBC and IFC.	Y	N	Now will need building permit?

2021 Code Section	2018 Code Section	Title or Subject	Reviewer Comments	Costs (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendations
3114	N/A - New	Public Use Restrooms in Flood Hazard Areas	Special criteria is to be applied where public use restrooms are located within flood hazard areas of publicly owned lands where the restrooms are at-grade or above-grade but below the base flood elevation	Y	N	
3115	N/A – New	Intermodal Shipping Containers	The use of intermodal shipping containers as buildings and structures is now recognized in the IBC with minimum safety requirements.	Y	N	
						Approve all recommendations
Chapter 32 Encroachments Into the Public Right-of-Way – No Changes						
Chapter 33 Safeguards during construction						
3301.2.1 New	N/A	Structural and construction loads	3301.2.1 Structural and construction loads. Structural roof components shall be capable of supporting the roof-covering system and the material and equipment loads that will be encountered during installation of the system.	N	N	
3307.2 New	N/A	Excavation retention systems	New requirements for excavation retention system. Requires design by a registered design professional	Y	N	Generally required and enforced through Ch. 18 & 19 currently
3313	3313	Water supply for fire protection	The scoping provisions addressing the timing and availability of the required water supply for buildings under construction have been expanded and specific fire flow requirements have now been established.	N	N	
						Approve all recommendations