	IBC Significant Changes Report								
П	2021 Code 2018 Code Amend Needed								
	Section	Section	Title or Subject	Reviewers Comments	Cost (Y/N)	(Y/N)	TAG Comments / Recommendations		
	Chapter 15—Roof Assemblies and Rooftop Structures								
TAG	TAG Member: Chris								
	1502.1	1502.1	General	This section provides reference to Chapter 11 of International Plumbing Code.	N	Υ	Change the reference with a reference to Uniform Plumbing Code		
	1502.2	1502.2	(emergency overflow) drains or scuppers.	This section provides reference to Chapter 11 of International Plumbing Code.	N	Y	Change the reference with a reference to Uniform Plumbing Code		
	1503.3.1 & 1503.3.2	1503.3	Parapet Walls	Requirements added to clarify coping not to impact rating of fire wall and to provide drainage	N	N			
	1504.3.1.3	None	Air permeability testing	Gives default coefficient for tile roofs	N	N			
	1504.5	1504.4	Ballasted low-slope single-ply roof systems.	All requirements applicable to the design and construction of ballasted low-slope roofs are now contained in the ANSI/ SPRI RP-4 standard.	N	N			
	1504.9	None	Wind resistance of aggregate-surfaced roofs.	Requirement for parapet to keep aggregate from blowing around. Unclear how common this roof type is.	Y	N	Past provisions regulating aggregate blow-off from aggregate- surfaced roofs were not based on a quantitative analysis of observed roofing system performances in real wind events. Rather, the requirements were based on variations in surface pressure with building height. Fully revised Section 1504.9 is now based on wind speeds for blowoff and only deals with smaller aggregate used for the surfacing of built-up roofs (BUR) and sprayed polyurethane foam (SPUF) roofs, both of which are different systems than ballasted roofs. Table 1504.9 considers aggregate size, roof height and wind speed to determine the minimum required parapet height.		
	1507.3.1	1507.3.1	Clay and concrete tile	New exception to solid sheathing requirement in seismic design A-C	Reduced	N			
	1509	None	Roof Coatings	New section to list appropriate ASTM standards for various coatings	N	N			
	1511.2.2	1510.2.2	Use Limitations	Clarification that penthouses may include spaces used to access elevators	N	N			
				Chapter 16—	Structural Desig	gn			
TA	6 Member: Sue	Coffman	T			T			
	Table 1604.5	Table 1604.5	Table 1604.5 – Risk Category of Buildings and Other Structures	Mixed occupancy buildings with assembly spaces are now designated as Risk Category III when the total public assembly occupant load is greater than 2,500 people.	N	N	Don't need the existing amendments in this table.		

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				The strength design and allowable stress design			
				load combinations have been deleted while			
				direct reference to Chapter 2 of ASCE 7 has			
	1605	1605	Load combinations	been added. (Sections 1605.1 and 1605.2)	N	N	
	1003	1003	Load Combinations	Modifies the title and the text to specify that	IN	IN	
				Section 1606.2 applies to weight of materials of			
			Weight of materials	construction and doesn't include fixed service			
	1606.3	4606.3	-				
-	1606.2	1606.2	of construction	equipment.	N	N	
	1606.3	NI	Weight of fixed	New section addressing weight of fixed service			
-	1606.3	None	service equipment	equipment.	N	N	
	1505.4		Photovoltaic panel	New section addressing photovoltaic panel			Historically, the code has not addressed variable content weight in
-	1606.4	None	systems	systems.	N	N	dead loads nor explicitly described certain loads. The weights of
	4505 5		Vegetative and	New section addressing vegetative and			vegetative roofs, solar panels and fixed service equipment have been
	1606.5	None	landscaped roofs	landscaped roofs.	N	N	clarified to provide consistency between the IBC and ASCE 7.
							In 2017, the Occupational Safety and Health Administration (OSHA)
							adopted new regulations in Section 1910.27 that specifically require
							all anchorages of rope descent systems (such as boatswain's chairs)
							to be able to support 5,000 pounds in any direction for each attached
							worker. Since OSHA has added specific language addressing rope
							descent systems, and because the systems and loads are basically
							identical to those for other fall arrest lines, Section 1607.11.4 has
			Fall arrest, lifeline,	Rope descent system anchorage has been			been updated to mirror OSHA's requirements and includes minimum
			· ·	, ,			
	4607444	4607404	and rope descent	added to the section on fall arrest and lifeline	V2		design loads for rope descent systems.
	1607.11.4	1607.10.4	system anchorages.	anchorage.	Y?	N	
							Live loads to be used in the design of ladders
							have not previously been specified in the IBC; however,
							Requirements for fixed ladders are now coordinated between the
							IBC and ASCE 7. Ladder live loads contained in ASCE 7 have been
							added to the IBC. The addition of live load values provides the
				Adds requirements for live loads for fixed and			necessary load values in the IBC but maintains the accompanying
	1607.17	None	Fixed ladders	ship's ladders.	N	N	design information within ASCE 7.
				The ground snow load map has been updated to			
				provide consistency with ASCE 7-16 snow maps			
				by adding a reference to ASCE 7 snow tables in			
	1608.2	1608.2	Ground snow loads	states with large case study areas.	N	N	
	1000.2	1000.2	Ground show loads	states with large case stady areas.	.,,		
							Section 1610 has not previously addressed uplift loads from
							hydrostatic pressure or expansive soils. Requirements addressing
				New section Concrete slabs are ground asset			, , , , , , , , , , , , , , , , , , , ,
				New section. Concrete slabs on ground must			uplift forces are now to be applied when appropriate and included in
				now be designed for uplift due to soil expansion			the design. The hydrostatic pressure provisions include a
			Uplift loads on floor	and water pressure in areas prone to soil			required determination of loads based on measuring to the
_	1610.2	None	and foundations	movement or a shallow water table.	Y	N	underside of the construction per ASCE 7, Section 3.2.2.
				Secondary drainage system rain loads have			
	1611.1	1611.1	Design rain loads	been updated to be consistent with ASCE 7.	?	N	
				The design of hydrostatic loads on breakaway			
			Flood hazard	walls is required when the walls do not meet			
	1612.4	1612.4	documentation	the requirements of ASCE 24.	?	N	
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				Chapter 17—Specia	I Inspections an	d Tests			
TAG	TAG Member: Sue Coffman								
<u> </u>	Wichiber. Suc	l		because the definition of structural					
				observations in the 2018 IBC was considered					
				vague and disconnected from Chapter 17					
			Structural	requirements, a new description in Section					
	1704.6	1704.6	observations	1704.6 provides clearer direction for the	N	N			
				structural observer duties. The structural					
				observer is expected to observe, in person, gravity and lateral force resisting systems,					
				connection details and gravity and lateral load					
				paths. The clarification is also intended to					
			Structural	address a widespread perception of overlap					
			observations for	between special inspections and structural					
	1704.6.1	1704.6.1	structures	observation.	N	N			
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			Required Special	Special inspection requirements for precast					
			Inspections and Tests	concrete diaphragm connections have been					
			of Concrete	added to the list of general concrete special					
ЦТ	able 1705.3	Table 1705.3	Construction	inspections and tests.	?	N			
				Special inspection of empirically designed					
				masonry in Risk Category IV buildings is no longer required because the masonry standard,					
				TMS 402, Building Code Requirements and					
			Glass unit masonry	Specification for Masonry Structures, does not					
			and masonry veneer	allow Risk Category IV buildings to be designed					
	1705.4.1	1705.4.1	in Risk Category IV.	following the empirical design method.	N	N			
H			Mass timber	, , , , , , , , , , , , , , , , , , ,					
	1705.5.3	None	construction	Special inspection requirements have been	Υ	N			
			Sealing of mass	added to address the anchorage and connection					
	1705.2	None	timber	of mass timber structural elements.	Υ	N			
			• ,	When installed deep foundation elements					
			Deep Foundation	appear to be understrength due to quality,					
	.=		Elements.	location or alignment, an engineering					
$\vdash \vdash$	1705.1	None	Character !	assessment must now be done.	Υ	N			
			Storage racks	Steel storage rack special inspection duties have					
	1705.13.7	1705.12.7		been clarified with the addition of special inspection tasks.	N	N			
\vdash	1/05.15./	1/03.12./	Fire-resistant	mspection tusks.	IV	IN			
			penetrations						
			and joints.	The installation of firestops, fire-resistant joint					
				systems and perimeter fire barrier systems in					
				residential-use buildings now requires special					
				inspection in those Group R fire areas having an					
	1705.18	1705.17		occupant load exceeding 250.	Y?	N			

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			Exterior window and				
			door assemblies				
				Testing standards and analysis procedures have			
				been clarified for exterior door and window			
	1709.5	1709.5		assemblies, including garage door assemblies.	N	N	
			Windborne debris				
	1709.5.3	None	protection	Required windborne debris protection for			
			Impact protective	glazing has been clarified through the addition			
			systems testing and	of a design standard and a definition			
	1709.5.3.1	None	labeling	of impact protective systems.	N	N	
	1709.3.3.1	None	labelling	of impact protective systems.	IN	IN .	
				Chapter 18—So	oils and foundati	ions	
TΑ	G Member: Sue	Coffman					
			1807.2.2 Design	Amendment clarifies backfill height is measured			
	1807.2.2	1807.2.2	lateral soil loads	from bottom of footing.	N	Υ	Keep – clarification from 2021 codes
			later at soil loads	nom bottom or rooting.			
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				Chapter	19—Concrete		
ТΑ	G Member: Sue	Coffman					
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				Chapter 2	0—Aluminum		
TΑ	G Member: Sue	Coffman					
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TΑ	G Member: Sue	Coffman					
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TAG Member: Sue	e Coffman					
			Chante	r 23—Wood		
TAG Member: Sue	Coffman		Спорто			
TAG IVIETIDET: 300	Comman					
			Chapter 24—	-Glass and glazir	ng	
TAG Member: Chi	ris	1			T	_
2403.3	2403.3	Framing	Changes to how to calculate if glass is firmly supported based on glass edge length	N	N	
2405.2	2405.2	Slope Glazing – Allowable Materials	Clarification that laminated glass and plastic materials do not require screening and are not limited by height restrictions	N	N	
		•	Chapter 25-	-Gypsum board		
TAG Member:						
2510.6; 2510.6.1; 2510.6.2	2510.6	Water-resistive barriers	Water-resistive barrier requirements for stucco have been divided into two categories based on whether the building is in a dry or moist climate.	N	N	exceptions. The exceptions have been replaced by subsections that indicate when an air gap is required by separating the requirements into dry and wet climate provisions. Additionally, a revised format recognizes two methods of compliance to the stucco water-resistive barrier provisions by requiring materials meet
			Appendix F	Rodentproofing		
No changes	1	_			T	
			Appendix G Flood-	Resistant Consti	ruction	
No changes						
			Appen	dix H Signs		
No changes						

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ı				Appendix	I Patio Covers				
ı	No changes								
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ı				Append	ix J Grading				
ı	No changes								
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ı				Appendix L Ear	thquake Record	ing			
ı	No changes								
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ı	Appendix M Tsunami-Generated D Flood Hazard								
I	No changes								
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