

	urse will cover all aspects of the 2024 Interna tial Code.	tional
<ul> <li>Upo</li> </ul>	on completion, you will be better able to:	
1.	Identify and discuss the key changes between the 2018 IRC and the 2021 IRC, specifically to building, energy, mechanical, fuel gas, plumbing and electrical requirements and provisions providing a safe living environment.	•
2.	Highlight increases in building safety and reduction of energy use.	* _
3.	Identify improvements in plumbing, electrical and fuel gas	$\bigcirc$

4. Discuss how changes will affect local construction

practices.

4

**GOAL & OBJECTIVES** 





### About You

What do you do on a typical day?

- Plans examiner
- Inspector
- Building officialPermit tech

Designer

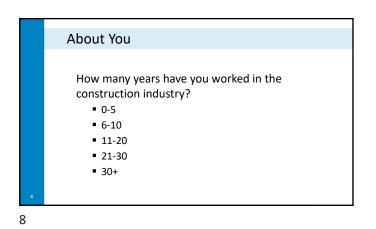
Architect & Engineer

Specialty contractor

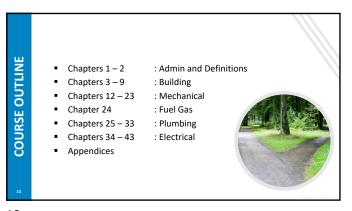
Manufacturer

Builder

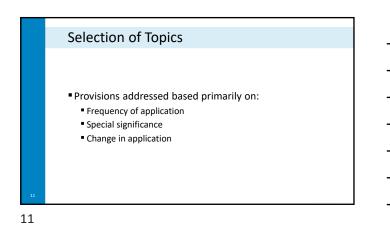
Other government position

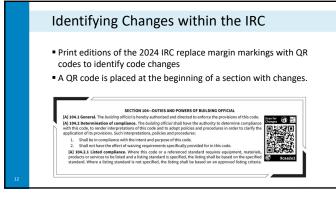


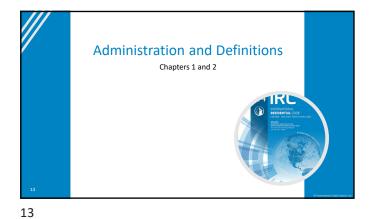


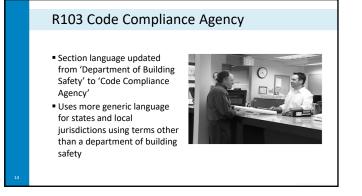












### **R104** Powers and Duties



Section R104 reorganized Reviewing for code compliance expanded to reflect the current manner that alternate materials, designs and methods are evaluated

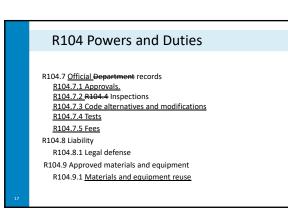
15

### **R104** Powers and Duties

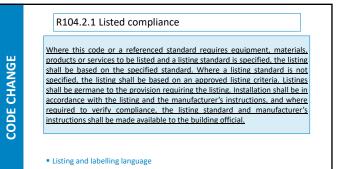
R104.1 General	
R104.2 Determination of compliance	
R104.2.1 Listed compliance	
R104.2.2 R104.11 Alternative materials,	
design and methods of construction and	
equipment	
R104.2.2.1 Approval authority	
R104.2.2.2 Application and	
disposition	F
R104.2.2.3 Compliance with code	F
intent	
R104.2.2.4 Equivalency criteria	F
R104.2.2.5 R104.11.1 Tests	
110-12.2.5 HEO HEETE TOSIS	1

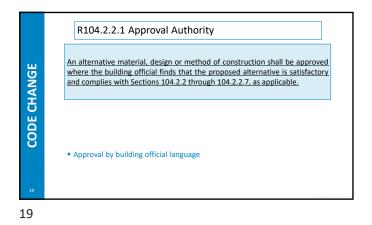
### R104.2.2.6 Reports R104.2.2.6.1 Evaluation reports R104.2.2.6.2 Other reports R104.2.3 R104.10 Modifications R104.2.3.1 R104.10.1 Flood hazard areas R104.3 R104.2 Applications and permits R104.4 R104.6 Right of entry R104.4.1 Warrant R104.5 Identification

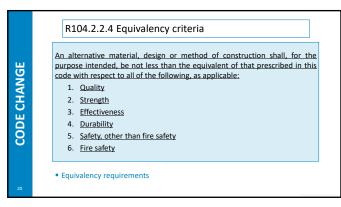
R104.6 R104.3 Notices and orders



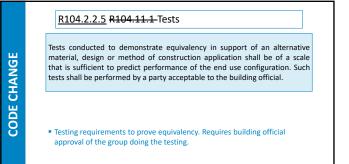
17

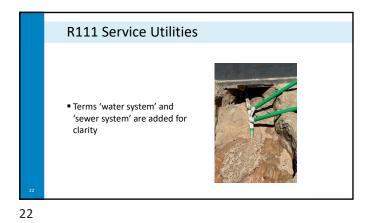


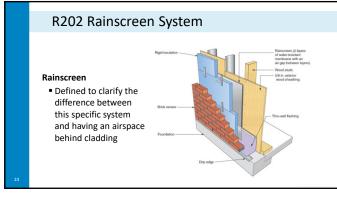


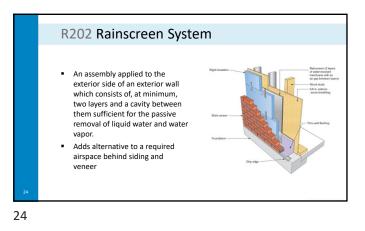












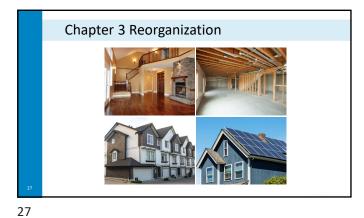
### RAINSCREEN

An assembly applied to the exterior side of an exterior wall which consists of, at minimum, an outer layer, an inner layer, and a cavity between them sufficient for the passive removal of liquid water and water vapor.

25

CODE CHANGE





### Chapter 3 Reorganization

R301-R307 Structural including Passive Fire Resistance R308-R311 Active Fire Resistance R312-R317 Rooms and spaces R318-R321 Means of egress R322-R323 Accessibility/Elevators R324-R328 Home Safety R329-R332 Energy



28

### Chapter 3 Building Planning Reorganization

Section 301 Design Criteria Section R302 Fire-resistant Construction

Section R303 R316 Foam Plastic Section R304 R317 Protection Of Wood And Wood-based Products

Against Decay Section R305 R318 Protection Against Subterranean Termites

Section R306 R322 Flood-resistant Construction Section R307 R323 Storm Shelters

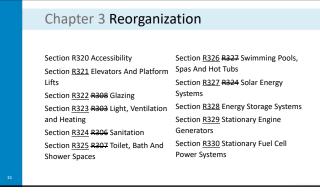
Section R308 R319 Site Address Section R309 R313 Automatic Fire Sprinkler Systems

### **Chapter 3 Reorganization**

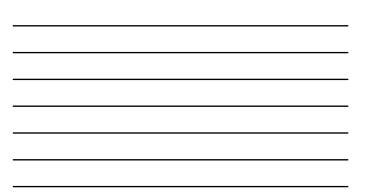
Section R310 R314 Smoke Alarms Section R316 R309 Garages and Carports Section R311 R315 Carbon Monoxide Alarms Section R317 R311 Means Of Egress Section R312 R304 Minimum Room Section R318 R310 Emergency Escape Areas And Rescue Openings Section R313 R305 Ceiling Height Section R319 R312 Guards And Window Fall Protection Section R314 R325 Mezzanines Section R315 R323 Habitable Attics

30

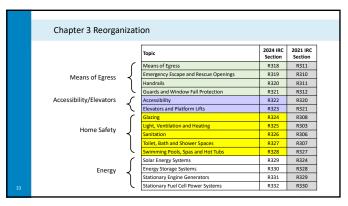
31

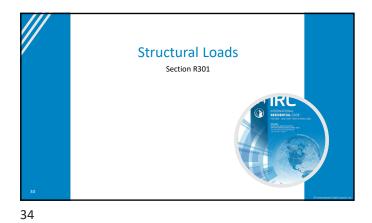


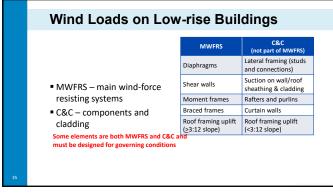
Chapter 3 Reorganization 2024 IRC 2021 IRC Торіс Section R301 R302 Section R301 R302 Design Criteria Fire-Resistant Construction Foam Plastic R303 R316 Structural rotection of Wood and Wood-Based Products Against Decay R304 R317 Totection Against Subterranean Termites lood-Resistant Construction torm Shelters ite Address R305 R306 R307 R308 R309 R318 R322 R323 R319 utomatic Sprinkler System R313 Fire R310 R311 moke Alarms R314 arbon Monoxide Alarms R315 /inimum Room Are R312 R313 R304 Ceiling Height R305 R314 R315 R316 R325 Rooms & Spaces eeping Loft abitable Att R326 R309 arages and Carport R317 32

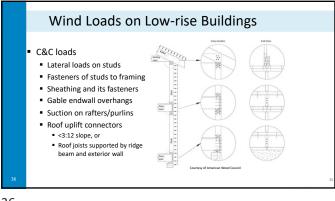










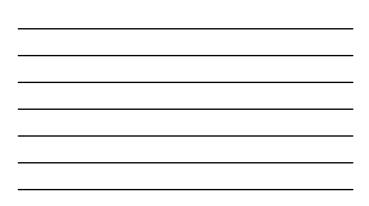


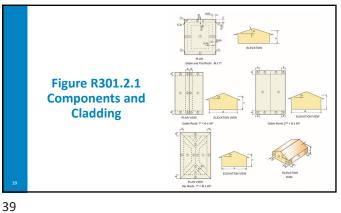




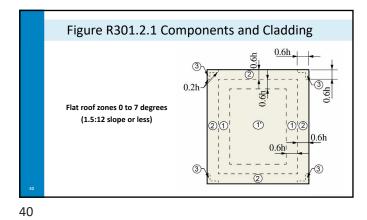
ш.	Wind pressure			Effective	Ultir	nate De	sign Wi	nd Spee	d, V <sub>ult</sub> (I	mph)	
<u>u</u>	increases with greater height in Exposure B while negative (suction) pressures are reduced on roofs		Zone	Zone		90		95		100	
<u></u>				Area (ft <sup>2</sup> )	POS	NEG	POS	NEG	POS	NEG	
÷.		<del>Flat and</del> Gable Roof 0	1 <u>, 1'</u>	10	3.6	-13.9	4	-15.5	4.4	-17.2	
CODE CHANGE			1 <u>, 1'</u>	20	3.3	<u>-12.4</u>	3.7	<u>-13.8</u>	4.1	<u>-15.3</u>	
			1 <u>, 1'</u>	50	3	<u>-10.3</u>	3.4	<u>-11.5</u>	3.8	<u>-12.7</u>	
			1 <u>, 1'</u>	100	2.8	<u>-8.7</u>	3.1	<u>-9.7</u>	3.5	<u>-10.8</u>	
<u>o</u>		to <7	2	10	3.6	-18.4	4	-20.5	4.4	-22.7	
0		degrees	2	20	3.3	<u>-16.4</u>	3.7	<u>-18.2</u>	4.1	<u>-20.2</u>	
			2	50	3	<u>-13.7</u>	3.4	<u>-15.3</u>	3.8	<u>-16.9</u>	


Table R301.2.1(2) Com	iponents		uun	18
	Mean Roof	Ехро	sure	
	Height	В	С	D
	15	0.82	1.21	1.47
	20	0.89	1.29	1.55
	25	0.94	1.35	1.61
Exposure coefficients	30	1.00	1.40	1.66
decreased for taller buildings	35	1.05	1.45	1.70
	40	1.09 1.06	1.49	1.74
	45	1.12 1.10	1.53	1.78
	50	1.16 <u>1.13</u>	1.56	1.81
	55	1.19 <u>1.16</u>	1.59	1.84
	60	1.22 1.19	1.62	1.87

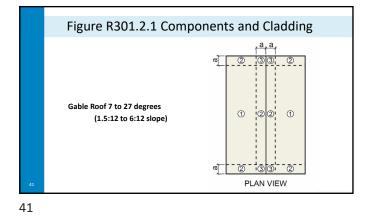


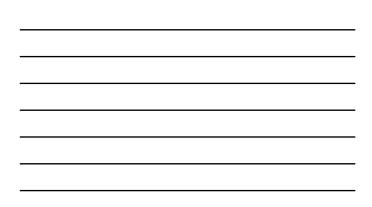


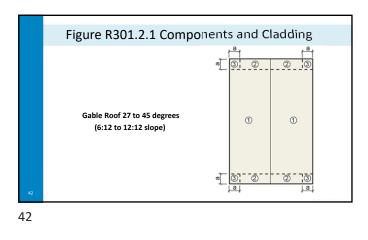


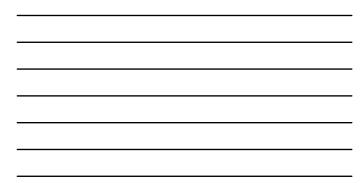


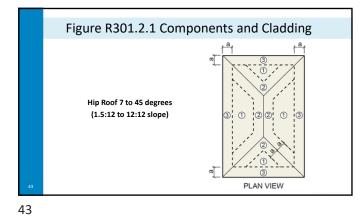




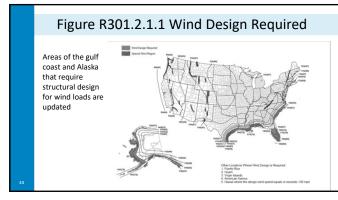




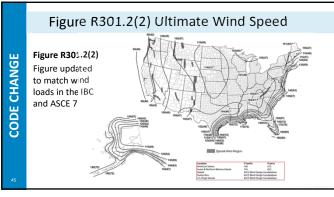




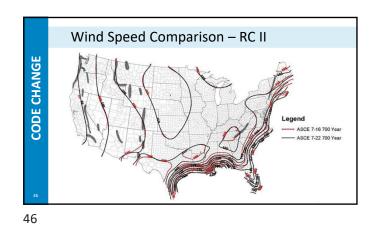




\_\_\_\_\_



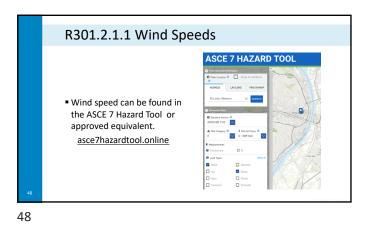


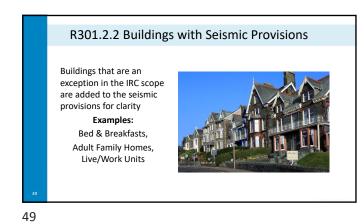


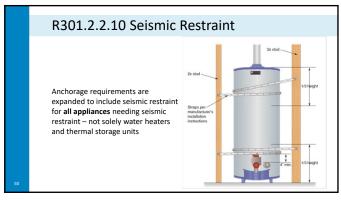


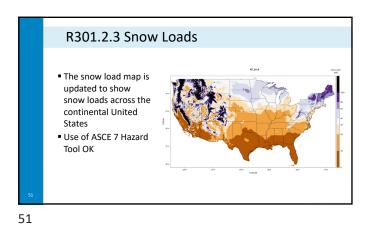


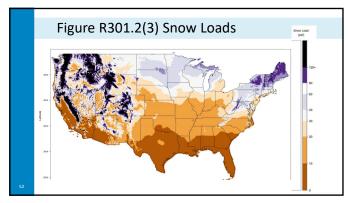




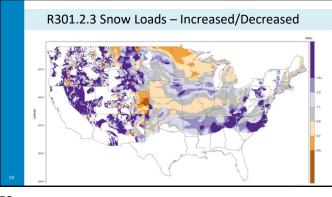


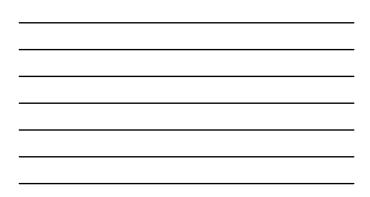




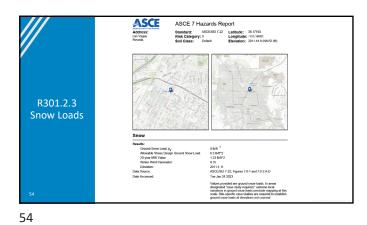




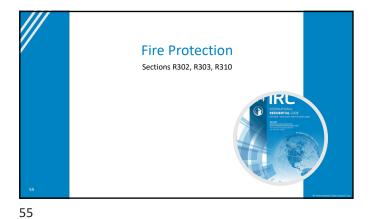


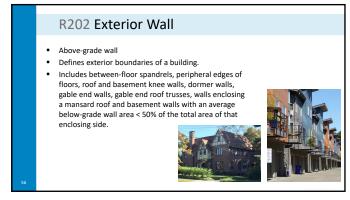


53









### R302.1 Exterior Walls

Measurement of fire separation distance when there are multiple dwellings or townhouse buildings on the same lot is added



57

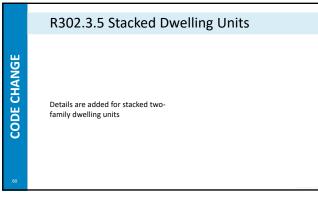
### R302.1 Exterior Walls

- For FSD, dwellings and townhouses on the same lot shall be assumed to have an imaginary line between them.
- FSD and requirements of Section R302.1 do not apply to walls separating townhouse units (party walls).



58

	R302.3 Two-family dwellings
<b>CODE CHANGE</b>	Two-family dwellings have updated fire resistance requirements for improved clarity



### R302.3.6 Shared Accessory Rooms

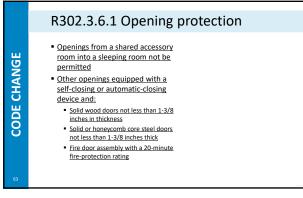
- Shared accessory rooms and their fire separation requirements are added to the IRC
- These accessory rooms must be separate from both
- dwelling unitsIntended for laundry, storage spaces and similar spaces

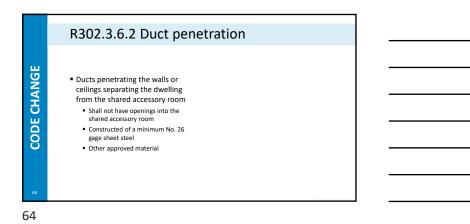


61

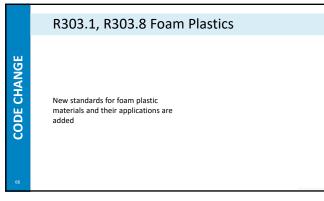
**CODE CHANGE** 

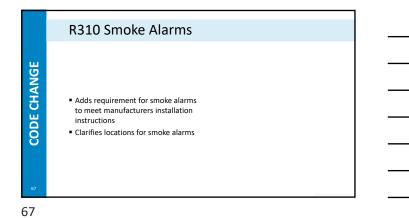
Shared Accessory F	Room Separation
TABLE R302.3.6 Dwelling-Shared Acc	cessory Room Separation
Separation	Material
From the dwelling units and attics	<ul> <li>≥ 1/2-inch gypsum board or equivalent</li> </ul>
	<ul> <li>Accessory room side wall</li> </ul>
From habitable rooms above or below the accessory room	≥ 5/8-inch Type X gypsum board or equivalent
Structures supporting floor/ceiling assemblies used for separation required by this section	≥ 1/2-inch gypsum board or equivalent

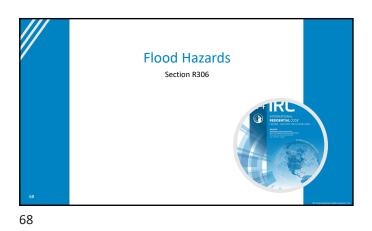




	R302.13 Floor Protection
<b>CODE CHANGE</b>	Exception added for wood floor assemblies less than 600 square feet
65	







Copyright 2024 International Code Council

### R306.2 Flood Hazard Areas

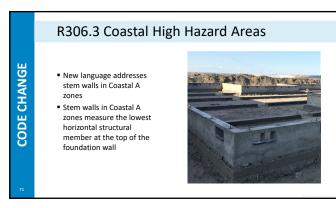
Accessory structures and detached garages are allowed in flood hazard areas with floors below the required lowest floor

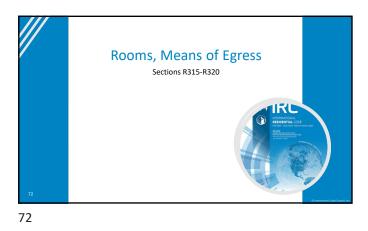


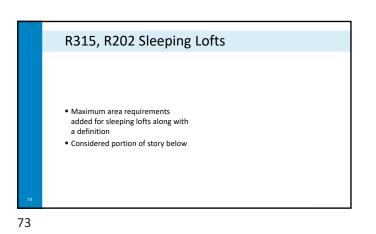
69

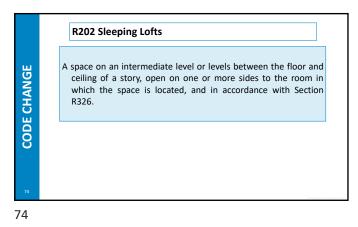
CODE CHANGE

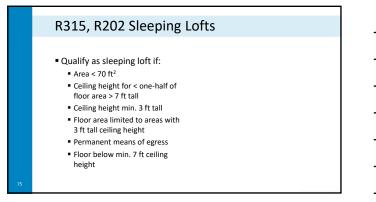
# <section-header><section-header><section-header><list-item><list-item><list-item><list-item><list-item><list-item>



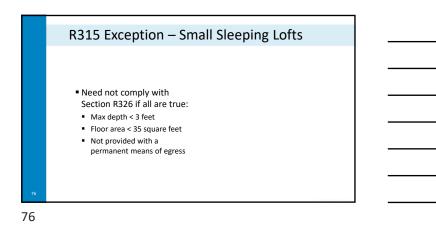














### R317.6, R317.7 EV Charging and Lifts

- EV charging stations must be installed per NEC, listed and labeled per UL 2202 with supply equipment listed and labeled per UL 2594
- Automotive lifts must be listed and labeled per ALI ALCTV



78

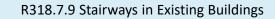
### R318.7.6 Stairway Landings

Introduces the term flight of stairs in lieu of stairway as it pertains to landings.



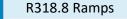
79

### <section-header><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item></table-row><list-item></table-row><list-item></table-row></table-row></table-row></table-row></table-row></table-row></table-row></table-row></table-row></table-row></table-row></table-row></table-row></table-row></table-row></table-row>



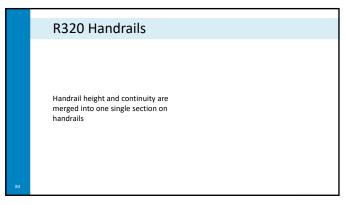
Alterations to existing stairs not required to comply with where the existing space and construction does not allow a reduction in pitch or slope

81



Handrails requirements for ramps are deleted and the ramp section is relocated.

82









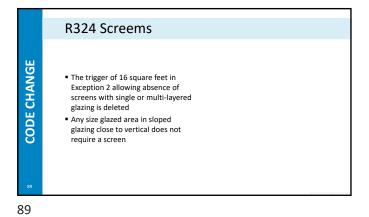
### R323 Elevators and Hoistways

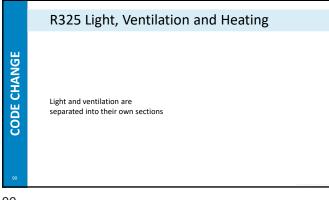
- Hoistways added to elevator and platform lift section
- Private residence elevators to conform to ASME A17.1/CSA B44, Section 5.3
   Hoistway enclosures and
- opening protection to meet ASME A17.1 Sections 5.3.1.1 and 5.3.1.8

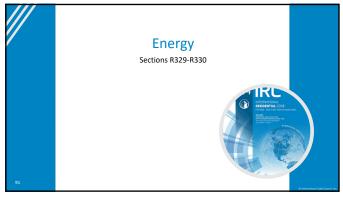


87

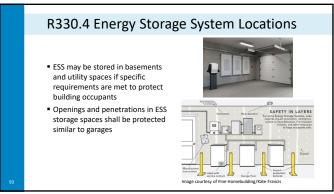


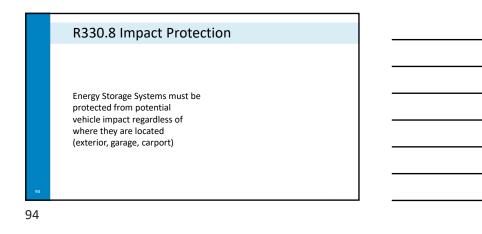


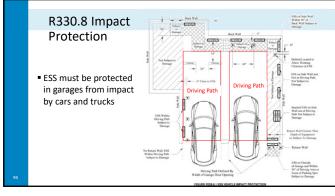


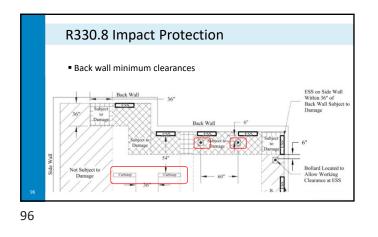


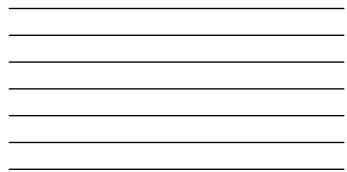
	R329.6.4 BIPV Systems
25 CODE CHANGE	Building-integrated photovoltaic (BIPV) systems should be marked from below to identify hazardous areas for emergency responders.
92	



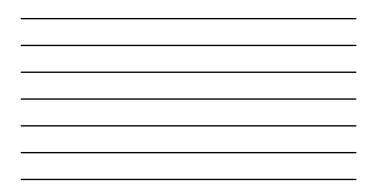


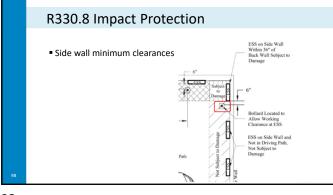


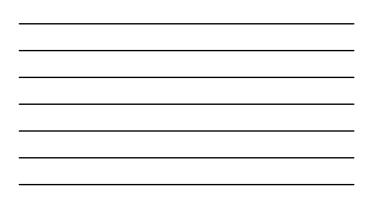


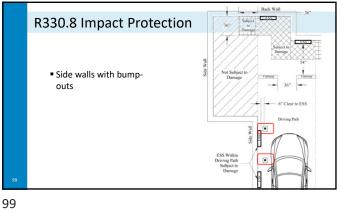


PS on Outside Side wall minimum clearances Parts of Damage Parts of Damage



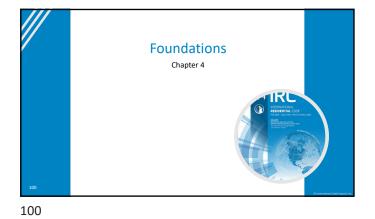


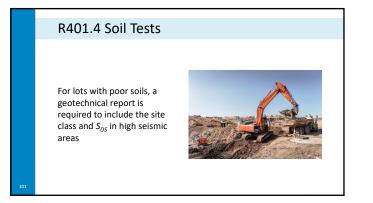




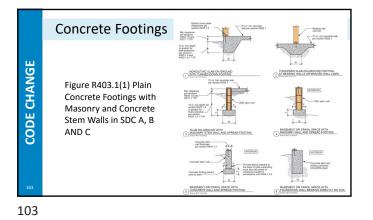








## rigure R403.1(1) Foundation Anchorage • Adds requirement for a concrete slab in a basement or crawl space when walls retain more than 4 feet of backfill. 102





R403.1.2 Continuous	Footings in SDC D
---------------------	-------------------

Table R403.1.2 Continuous Footing Requirements in SDC D<sub>0</sub>, D<sub>1</sub>, D<sub>2</sub>

Building Plan	1-Story						2-Story						3-Story	
Dimensions	50 feet or less			> 50 feet			50 feet or less			> 50 feet			Any	
SDC	D <sub>0</sub>	D <sub>1</sub>	D <sub>2</sub>	D <sub>0</sub>	D <sub>1</sub>	D <sub>2</sub>	D <sub>0</sub>	D <sub>1</sub>	D <sub>2</sub>	D <sub>0</sub>	D <sub>1</sub>	D <sub>2</sub>	D <sub>0</sub>	D <sub>1</sub>
Continuous Footings														
Supporting Exterior	Required			Required			Required			Required			Required	
Walls														
Continuous Footings														
Supporting Required	Not Required		Required <sup>a</sup>			NR	NR	Ra	Required <sup>a</sup>			Required		
Interior Braced Wall								K-	Requireu-					
Panels														

<sup>105</sup>

CODE CHANGE

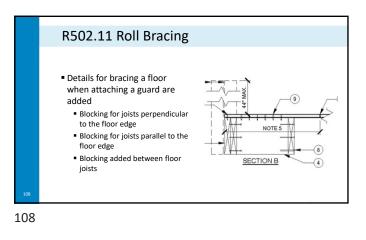
 Footnotes, Table R403.1.2 Continuous Footing Requirements in SDC D<sub>0</sub>, D<sub>1</sub>, D<sub>2</sub>
 R = Continuous solid or fully grouted masonry or concrete footings in accordance with Section R403.1.3.4 required.
 NR = Continuous footings not required.
 Buildings shall be permitted to have interior braced wall panels supported on continuous foundations at intervals not exceeding 50 feet provided that the following conditions are all met:

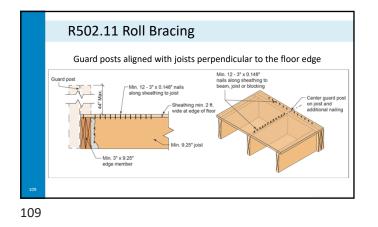
 The height of cripple walls does not exceed 4 feet.
 First-floor braced wall panels are supported on doubled floor joists, continuous blocking or floor beams.
 The distance between bracing lines does not exceed twice the building width measured parallel to the braced wall line.

 106

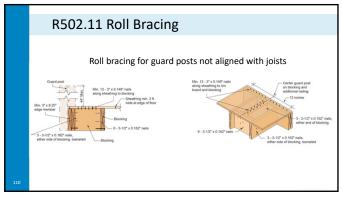
Floors, Decks Chapter 5

Copyright 2024 International Code Council

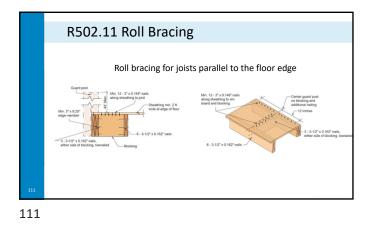


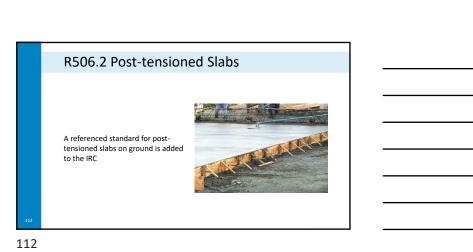


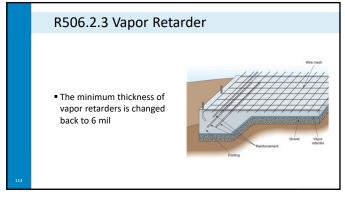


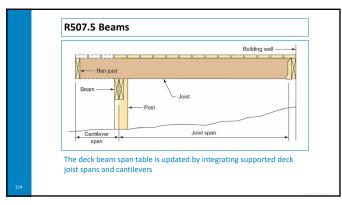






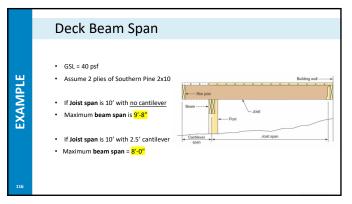


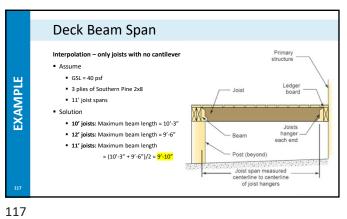




٦	Table I	R507.5	(1) Ma	ax Deck	Beam	Span –	40 psf
		Joist Span	Jo	oist Span Length 8	& Joist Cantilever	Length (feet & fe	et)
		6	6&0	6 & 1.5		-	•
		8		8&0	8&1	8 & 2	
		10			10 & 0	10 & 1	10 & 2.5
		12				12 & 0	12 & 1
		14					14 & 0
		16					
		18					
	Beam	Beam					
	Species	Size		waximum Dec	c Beam Span Len	gth (feet-inches)	
		1-2×6	4-10	4-7	4-3	4-0	3-7
		1 – 2 × 8	6-4	5-11	5-6	5-1	4-7
		1 - 2 × 10	7-6	7-0	6-6	6-0	5-5
		1 - 2 × 12	8-8	8-3	7-8	7-1	6-4
		2 – 2 × 6	7-4	6-11	6-5	5-11	5-4
		2 – 2 × 8	9-4	8-9	8-2	7-7	6-9
	Southern	2 - 2 × 10	11-0	10-4	9-8	9-0	8-0
	pine	2 – 2 × 12	13-0	12-2	11-4	10-7	9-5
		3 - 2 × 6	9-0	8-6	7-11	7-5	6-8
		3 – 2 × 8	11-7	10-11	10-3	9-6	8-6
		3 - 2 × 10	13-11	13-0	12-1	11-2	10-0
		3-2×12	16-3	15-3	14-3	13-3	11-10

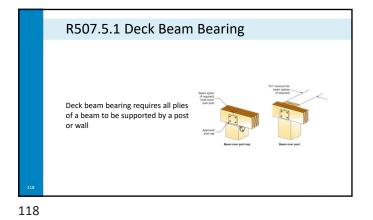
115

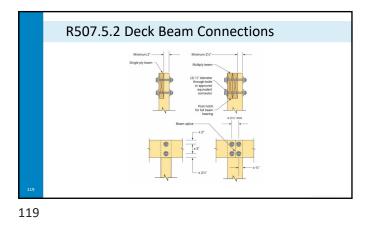




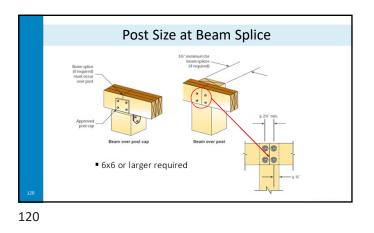








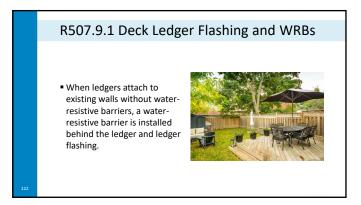


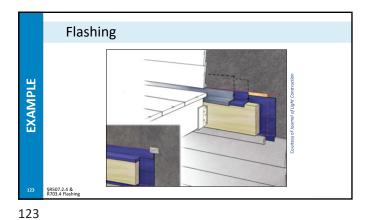




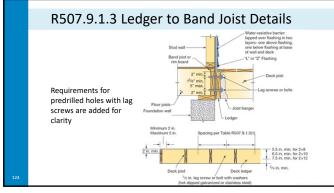
BeamMin. Notched<br/>Deck Post Size<br/>1Minimum 2"<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<br/>upped<

121

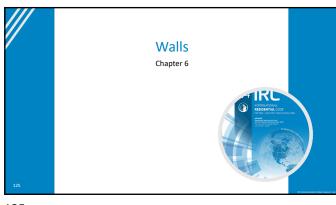


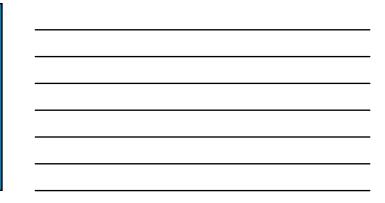






124





# Table R602.3(1) Roof Sheathing Fastener Schedule

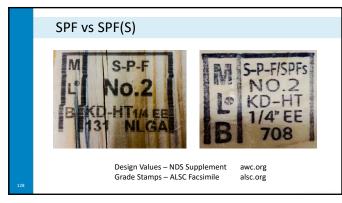
- Fastener spacing applies where roof framing SG ≥ 0.42.
- Where roof framing ≤ 0.42 SG ≤ 0.35, fastening of roof sheathing shall be with RSRS-03 (2½" × 0.131" × 0.281" head) nails.

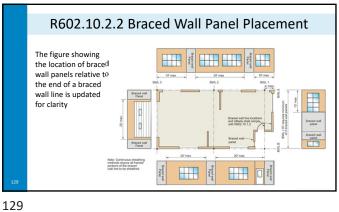


126

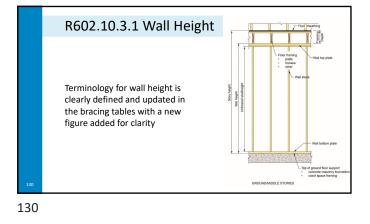
	Tab	le R6	02.3(1) – Roof Fran	ning	g Lum	ber Specific Gravity
ų		TABI	LE R602.3(1) Fastening Sc			f. For wood structural panel roof sheathing attached to gable end
	ltem	Description of Building	Number and Type of Fastener <sup>ab,c</sup>	Edges	of Fasteners Intermediate supports<*	roof framing and to intermediate supports within 48 inches of roof edges and ridges, nails shall be
ζ.		Elements		(inches)	(inches)	spaced at 4 inches on center
			nels, subfloor, <u>roof</u> and interior wall sheathing to framing a te Table R602.3(3) for wood structural panel exterior wall :			where the ultimate design wind speed is greater than 130 mph in Exposure B or greater than 110
			6d common or deformed (2" × 0.113" × 0.266" head); or	6	12 64	mph in Exposure C. Fastener spacing applies where roof
	31	3/8"-1/2"	2-3/8 " × 0.113" × 0.266" head nail (subfloor, wall) 8d common (2-1/2" × 0.131"  nail (roof): or			framing specific gravity is 0.42 or
)			RSRS-01 (2-3/8 "× 0.113") nail (roof) <sup>6</sup>	61	61	larger. Where roof framing specific gravity is greater than or
			8d common (2-1/2" × 0.131") nail (subfloor, wall)	6	12	equal to 0.35 but less than 0.42 in
	32	19/32"-3/4"	8d common (2-1/2 "×0.131") nail (roof); or RSRS-01; (2-3/8 "×0.113") nail (roof) <sup>5</sup>	61	61	accordance with AWC NDS, fastening of roof sheathing shall
			Deformed 2-3/8 " × 0.113" × 0.266" head (wall or subfloor)	6	12	be with RSRS-03 (2½" × 0.131" × 0.281" head) nails.
7			1		1	

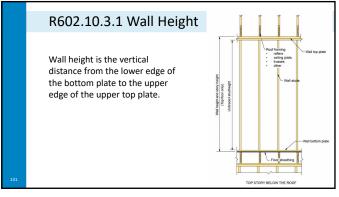
127

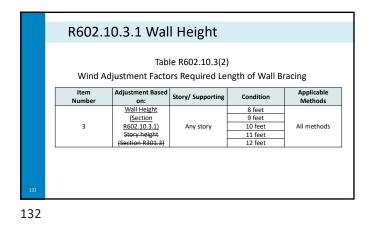


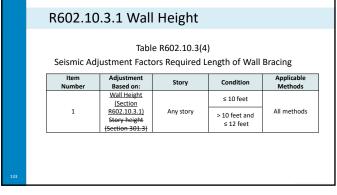


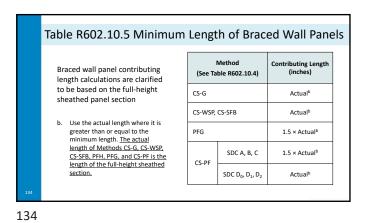






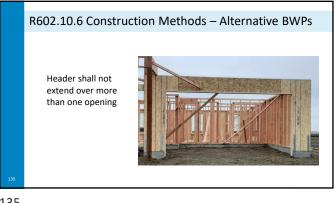


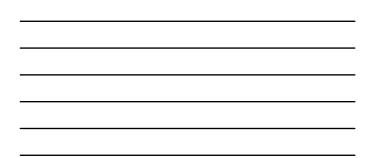


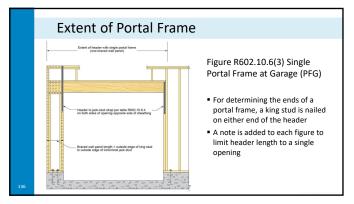


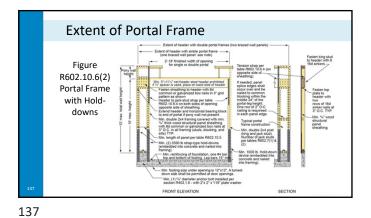


Copyright 2024 International Code Council

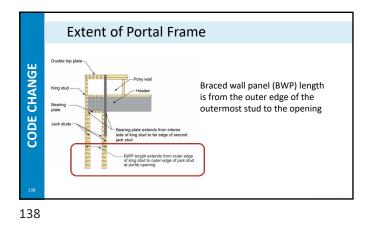


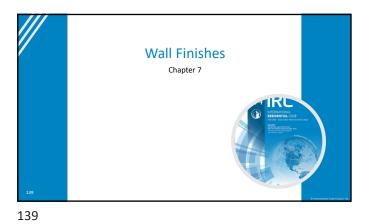


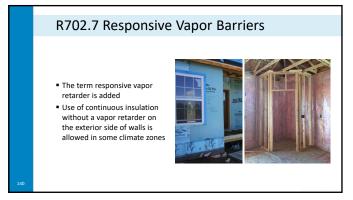


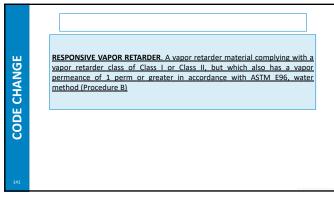






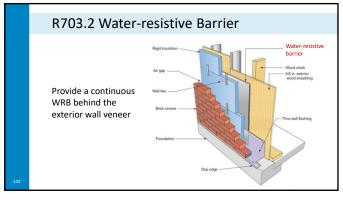


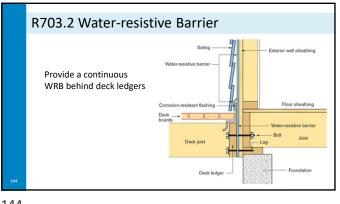




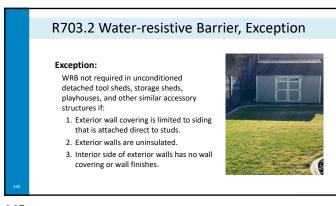
Tab	م P702	7(5) Continuous Insulation	
Tab	ie 11702.		
	Continuous In III Interior Vap	sulation on Walls Without a Class I, II, or or Retarder	
	Climate Zone	Permitted Conditions: <sup>b,c</sup>	
	4	Continuous insulation with R-value $\geq 4.5$	
	<u>5</u>	Continuous insulation with R-value $\geq 6.5$	
	<u>6</u>	Continuous insulation with R-value $\ge 8.5$	
	<u>7</u>	Continuous insulation with R-value ≥ 11.5	
	8	Continuous insulation with R-value $\geq 14$	

142

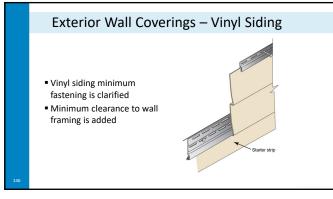








145



# R703.3 Siding Clearances – Vinyl Siding

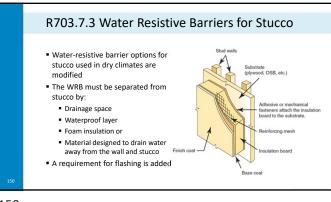
**R703.3.1 Siding clearance at wall and adjacent surfaces**. Unless otherwise specified by the cladding manufacturer or this code, polypropylene, insulated vinyl, and vinyl claddings shall have clearance of at least 5 inches from the ground and at least 5/inche from other adjacent surfaces (decks, roofs, slabs).



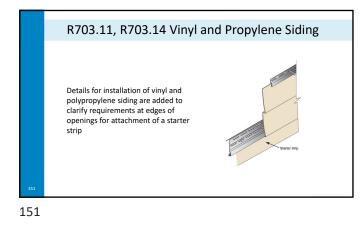
147

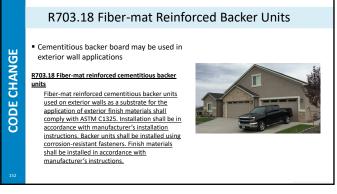




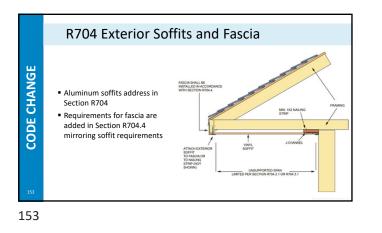




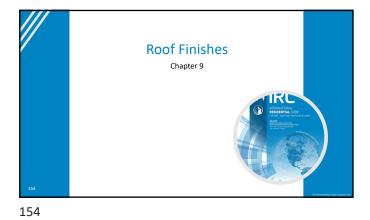


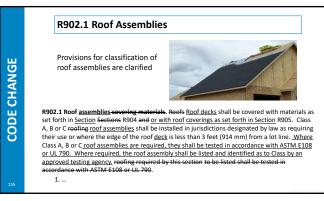




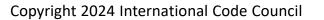












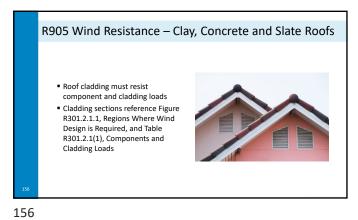
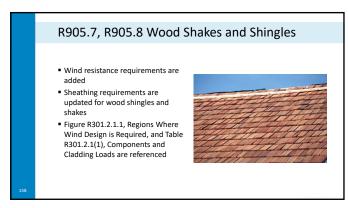
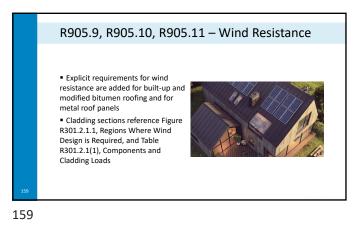


Table R905.6.5 Classification of Slate Shingles Maximum Ultimate Design Wind Speed, V<sub>ult</sub>, From Figure <u>R301.2(2)</u> (mph) Maximum Basic Wind Speed, V<sub>osd</sub>, From Table R301.2.1.3 (mph) ASTM D3161 Classification A, D or F 110 85 116 90 A, D or F 100 129 A, D or F 142 110 F 155 120 F <u>130</u> <u>140</u> 168 181 194 150

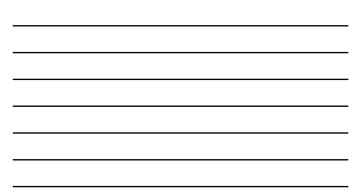
157







R905.12, R905.13, R905.14 Single-ply Liquid and Sprayed Ro	ofing
TABLE R905.12 Single-ply Roofing Material	<u>Standards</u>
Material	Standard
Chlorosulfanted polyethylene (CSPE) or polyisobutylene (PIB)	ASTM D5019
Ethylene propylene diene monomer (EPDM)	ASTM D4637
Ketone Ethylene Ester (KEE)	ASTM D6754
Polyvinyl chlorine (PVC) or (PVC/KEE)	ASTM D4434
Thermosplastic polyolefin (TPO)	ASTM D6878



Copyright 2024 International Code Council

## R905.15, R905.16 BIPV Roofs

Building-integrated photovoltaic (BIPV) roof panel and shingle provisions are updated to provide minimum deck sheathing and attachment requirements



162



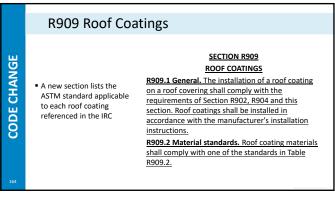
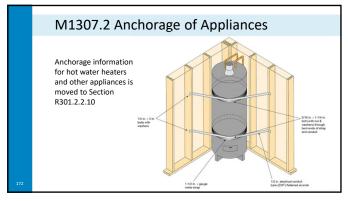


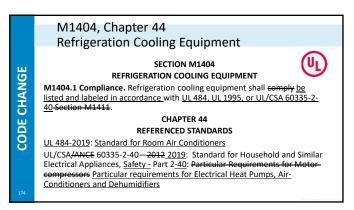
TABLE R909.2 Roof coating mate	erial standards
Coating Material	Standard
Acrylic coating	ASTM D6083
Asphaltic emulsion coating	ASTM D1227
Asphalt coating	ASTM D2823
Asphalt roof coating	ASTM D4479
Aluminum-pigmented asphalt coating	ASTM D2824
Silicone coating	ASTM D6694
Moisture-cured polyurethane coating	ASTM D6947

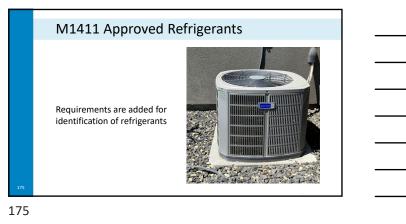


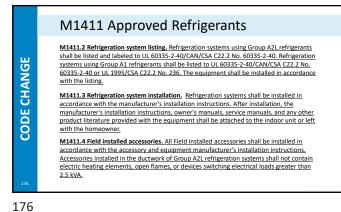
172











## M1411 Approved Refrigerants

 
 M1411.5 Signs and identification. Each refrigeration system using Group A2L refrigerant shall have the following information legibly and permanently indicated on a markable label provided by the equipment manufacturer.

 1. Contact information of the responsible company that installed the refrigeration system, and

2. The system refrigerant charge and the refrigerant number.

M1411.6 Refrigerant charge. All refrigeration systems shall have a refrigerant charge in compliance with the equipment manufacturer's installation instructions and the requirements of the listing. Group A2L refrigerant charge for an individual refrigeration system shall not exceed 34.5 lbs (15.7 kg).

M1411.7 Group A2L refrigerant piping testing. The piping system containing Group A2L refrigerant shall be tested in accordance with the manufacturer's installation instructions and the requirements of the listing.

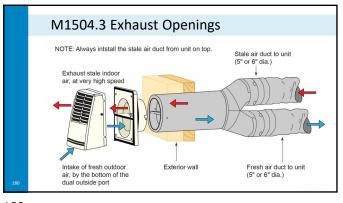
177

**CODE CHANGE** 

# Minimum opening size requirements added for closet door transfer air grill Min. of 100 square inches Installations exhausting more than 200 cfm must have makeup air (any location)

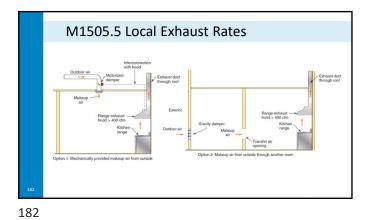
178



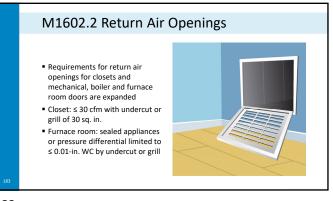


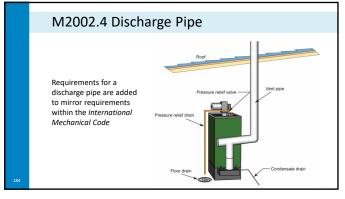




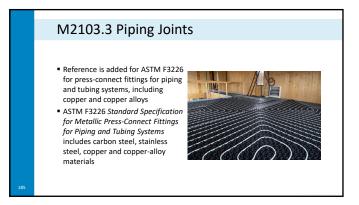


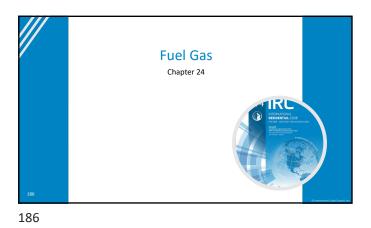




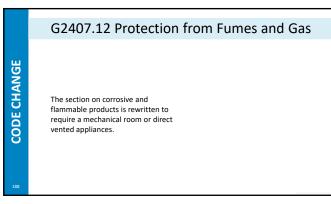


184





G2407.1 Combustion, ventilation and Dilution Air
The section on corrosive and
flammable products is rewritten to
require a mechanical room or direct
vented appliances
187



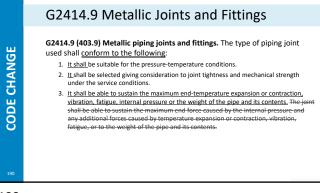
### G2414.6 Workmanship and Defects

G2414.6 (403.6) Workmanship and defects. <u>Gas</u> pipe, tubing and fittings <u>at</u> <u>the time of installation shall meet the following requirements</u> (See Section G2417.1.2.):

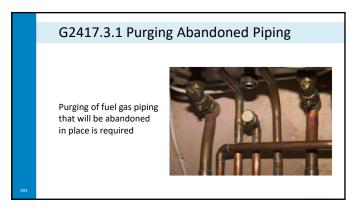
- <u>Gas pipe, tubing and fittings</u> shall be clear and free from cutting burrs and <u>visible</u> defects in structure or threading.
- Gas pipe, tubing and fittings shall be thoroughly cleaned to remove chip, scale and debris and shall be thoroughly brushed, and chip and scale blown.
- 3. <u>Visible</u> defects in pipe, tubing and fittings shall not be repaired.
- 4. Defective Pipe, tubing and fittings with visible defects shall be replaced.

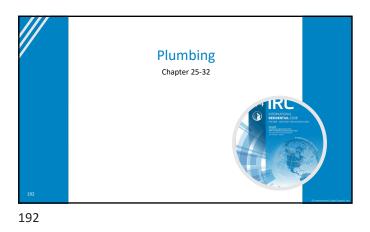
189

**CODE CHANGE** 

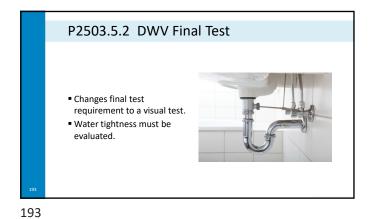


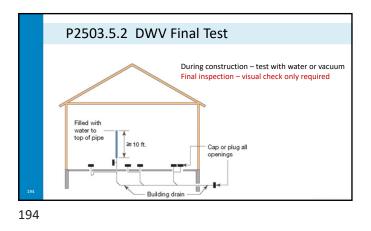
190



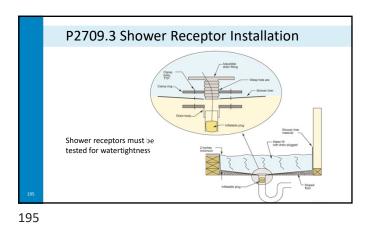


\_



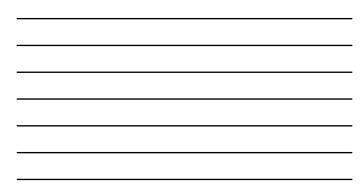




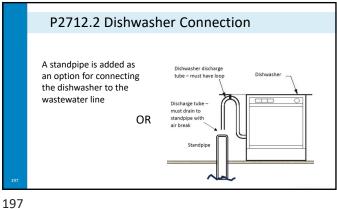




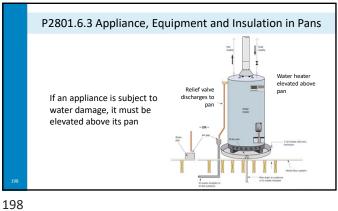
P2712.2 Dishwasher Connection Loop required Loop Dishwashing machine – Dishwashing -machine Kitchen sink Kitchen sink Head of food-waste dispose Wye fitting in sink tailpiece receives dishwasher discharge pipe or tube receives dishwasher discharge pipe or tube OR Previous options for connecting the dishwasher to the wastewater line



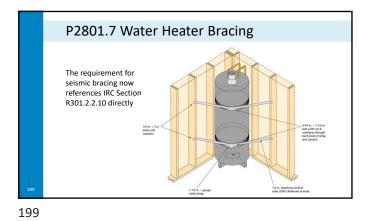
196





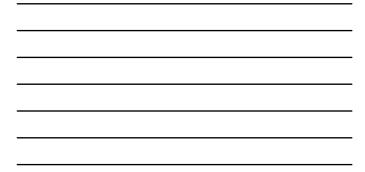




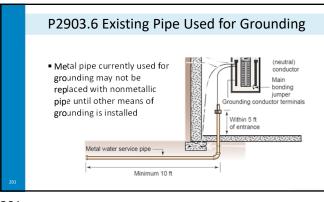


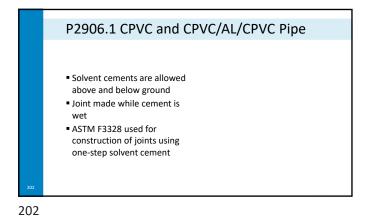


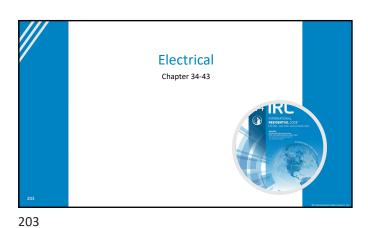




200







Copyright 2024 International Code Council

# E3404.11 Equipment Identification

- Equipment marking by applying labels is clarified
- Reconditioned equipment must have the original trademark destroyed and the organization responsible for the recondition identified by permanent label

Date of reconditioning addedTerm 'Reconditioned' added



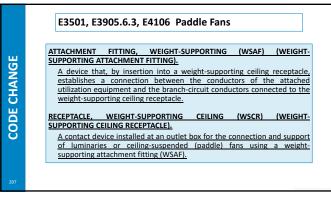
204

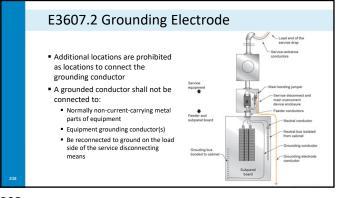
204

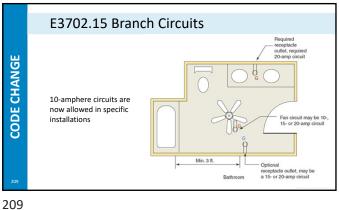
	E3404.14 Reconditioned Equipment
ш	Requirements for reconditioned equipment are added
<b>D</b> N	Section addresses whether reconditioned equipment is permitted
CODE CHANGE	E3404.14 Reconditioned equipment.
Щ Ш	E3404.14.1 Equipment required to be listed
8	E3404.14.2 Equipment not required to be listed
U	E3404.14.3 Approved equipment

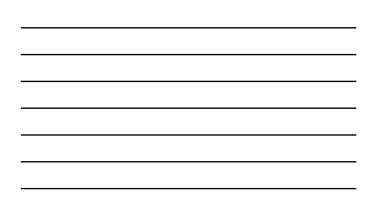
205





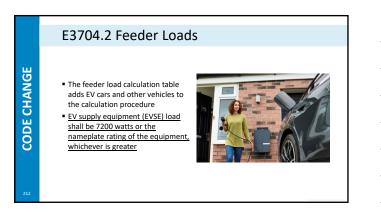




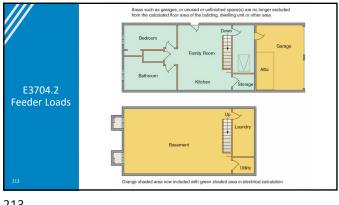


	E3702.15 Branch C	ircuit	S		
CODE CHANGE	TABLE E3702.15(1) Branch-Circuit	Circuit Rating			
₹.	Conductors	10 amp	15 amp	20 amp	30 amp
古	Minimum size (AWG) circuit conductors	12	12	10	8
щ Ш	Maximum overcurrent-protection device rating	<u>10A</u>	15 <u>A</u>	20 <u>A</u>	30 <u>A</u>
Ö	Outlet devices: Lampholders permitted	Any Type	Any Type	Any Type	NA
<u> </u>	Receptacle rating (amperes)	NA	15A max.	15 or 20	30A
	Maximum load (amperes)	<u>10A</u>	15 <u>A</u>	20 <u>A</u>	30 <u>A</u>
	a. These gages are for copper conductors. b. NA = Not Allowed.				

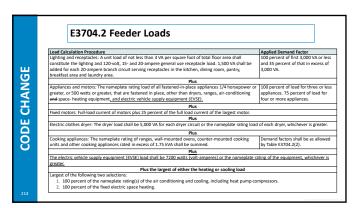
	E3702.15 Branch Circu	iits			
	TABLE E3702.15(2) Branch-Circui	t Requi	rement	s—Sum	mary
<u>ш</u>			Circuit	Rating	
G	Conductors:	<u>10 amp</u>	<u>15 amp</u>	20 amp	30 amp
Z	Minimum size (AWG) circuit conductors	<u>12</u>	<u>12</u>	<u>10</u>	8
CODE CHANGE	Maximum overcurrent-protection device rating	<u>10A</u>	<u>15A</u>	<u>20A</u>	<u>30A</u>
<b>王</b>	Outlet devices:				
	Lampholders permitted	Any Type	Any Type	Any Type	NA
ä	Receptacle rating (amperes)	NA	15A max.	15 or 20	<u>30A</u>
5	Maximum load (amperes)				
ö	<u>10A</u>				
	<u>15A</u>	<u>10A</u>	<u>15A</u>	<u>20A</u>	30A
	<u>20A</u>				
	<u>30A</u>				
	a. These gages are for aluminum and copper-clad co	nductors.			
211	b. NA = Not Allowed.				



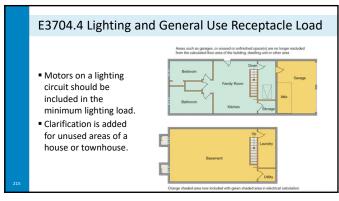
211

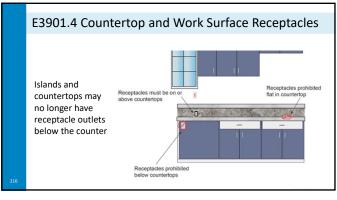






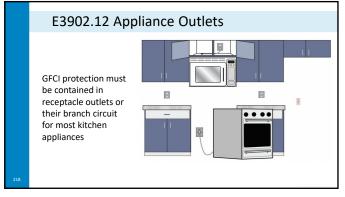
214

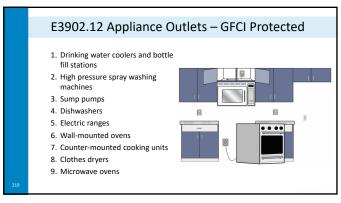


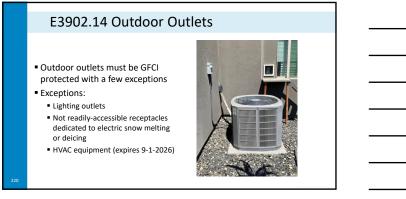




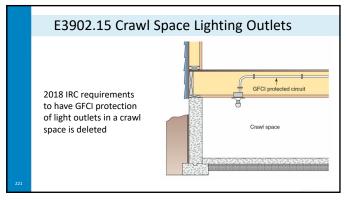


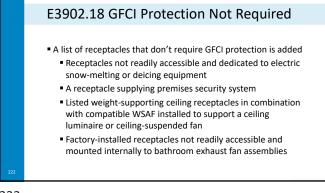


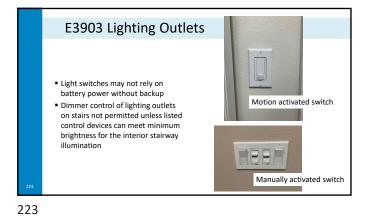




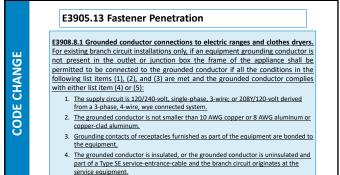
220

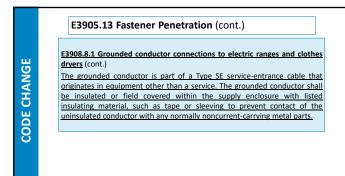




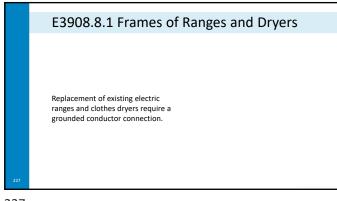


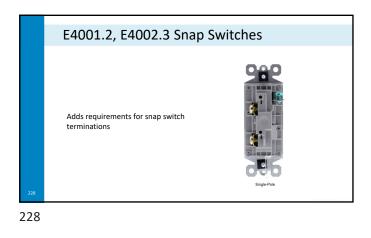


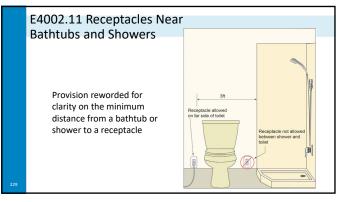




226



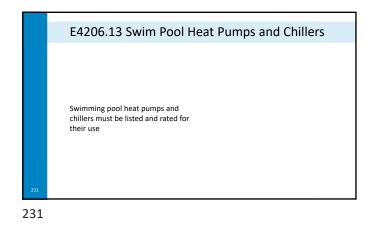


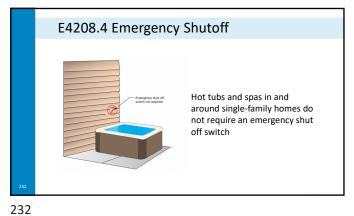






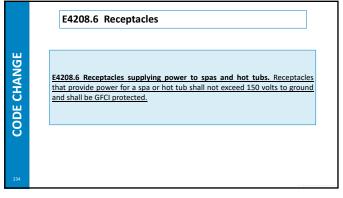






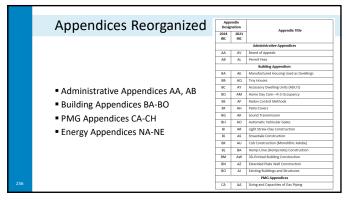


	E4208.5 Low-voltage Contact Limit
CODE CHANGE	E4208.5 Equipment exceeding the low-voltage contact limit. Except for self- contained spas and hot tubs, equipment with ratings exceeding the low- voltage contact limit shall be located at least 1.5 m (5 ft) horizontally from the inside walls of a spa or hot tub, unless separated from the spa or hot tub by a solid fence, wall, or other permanent barrier.
233	

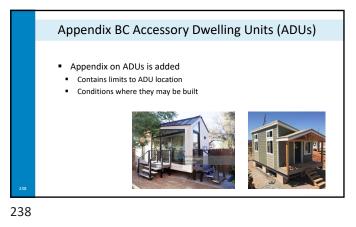


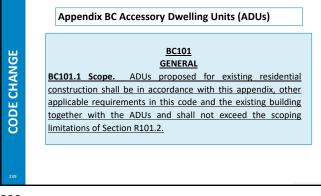


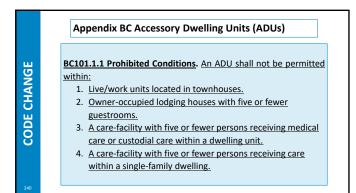
235







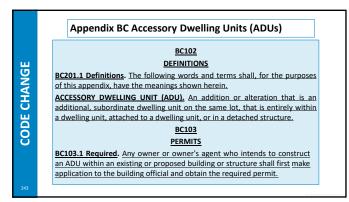




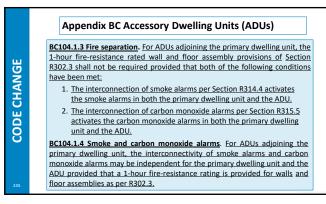
CODE CHANGE	Appendix BC Accessory Dwelling Units (ADUs)         BC101.2 Conditions:         ADUs shall be permitted without requiring a change of occupancy to either a two-or multi-family dwelling where in compliance with all of the following:         1. An ADU shall be permitted within an existing single-family detached dwelling or within an existing townhouse unit, that is within the scope of the IRC.         2. The owner of a property containing an ADU shall reside in either the primary dwelling unit or the ADU, as of the date of permit approval.         3. An ADU shall have a separate house number from the primary
241	<ol> <li>The owner of a property containing an ADU shall reside in either the primary dwelling unit or the ADU, as of the date of permit approval.</li> </ol>
241	

CODE CHANGE	





	Appendix BC Accessory Dwelling Units (ADUs) BC104
щ	ADU PLANNING
CODE CHANGE	BC104.1 Design. Except as modified by this section, building planning shall be in accordance with Chapter 3 and building structure shall comply with the IRC. BC104.1.2 Means of egress. The path of egress travel from an ADU to a public way or to a yard or court that opens to a public way shall be independent of, and not pass through the primary dwelling unit.
244	

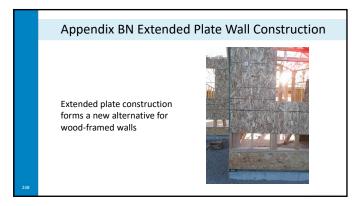


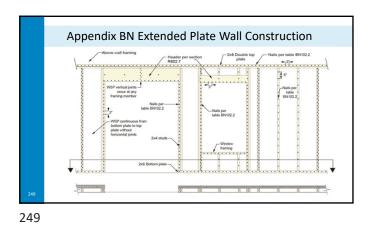


	Appendix BC Accessory Dwelling Units (ADUs)
CODE CHANGE	BC105           UTILITIES           BC105.1 Heating, ventilation and air-conditioning systems. A primary dwelling unit and an ADU shall be provided with:           1. A separate heating system.           2. Separate ducting for heating and cooling systems. Return air openings for heating, ventilation and air-conditioning shall not be taken from another dwelling unit.           3. Separate climate controls.           BC105.2 Electrical systems. A primary dwelling unit and an ADU shall be provided with:           1. Ready access to the service disconnecting means serving the dwelling unit.           2. Ready access for each occupant to all overcurrent devices protecting the conductors supplying the dwelling unit in which they reside.

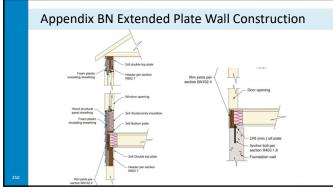
	Appendix BC Accessory Dwelling Units (ADUs)
CODE CHANGE	<ul> <li>BC105.3 Gas piping. A primary dwelling unit and an ADU shall be provided with: <ol> <li>Ready access to shutoff valves serving the dwelling unit in which they reside.</li> <li>Ready access to appliance shutoff valves serving appliances in the dwelling unit in which they reside.</li> </ol> BC105.4 Water service. A primary dwelling unit and an ADU may share a common potable water system provided that there are separate, accessible main shutoff valves allowing the water to be turned off on one-side without affecting the other.</li></ul>
247	R Hannelmer (

247









250



251

# Appendix BO - Existing Buildings

AJ101.1 General. The purpose of these provisions is to encourage the continued use or reuse of legally existing buildings and structures. These provisions are intended to permit work in existing buildings that is consistent with the purpose of this code. Compliance with these provisions shall be deemed to meet the requirements of this code. Structural elements and systems shall comply with Section R102.7.1 and the provisions of this Appendix. Repairs, alterations, additions, and relocation of existing buildings and structures shall comply with the provisions of this code for new construction, except as modified by this appendix.

252



253



