

1                   **INTERNATIONAL RESIDENTIAL CODE AMENDMENTS**

2                                   2012 GENERAL SESSION

3                                   STATE OF UTAH

4                           **Chief Sponsor: Jeremy A. Peterson**

5                           Senate Sponsor: \_\_\_\_\_

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7 **LONG TITLE**

8 **General Description:**

9                   This bill modifies a provision of the adopted International Residential Code.

10 **Highlighted Provisions:**

11                   This bill:

12                   ▶ provides an exception to an emergency escape and rescue opening provision of the  
13 adopted International Residential Code.

14 **Money Appropriated in this Bill:**

15                   None

16 **Other Special Clauses:**

17                   None

18 **Utah Code Sections Affected:**

19 AMENDS:

20                   **15A-3-202**, as enacted by Laws of Utah 2011, Chapter 14

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22 *Be it enacted by the Legislature of the state of Utah:*

23                   Section 1. Section **15A-3-202** is amended to read:

24                   **15A-3-202. Amendments to Chapters 1 through 5 of IRC.**

25                   (1) In IRC, Section 109:

26                   (a) A new IRC, Section 109.1.5, is added as follows: "R109.1.5 Weather-resistant  
27 exterior wall envelope inspections. An inspection shall be made of the weather-resistant



28 exterior wall envelope as required by Section R703.1 and flashings as required by Section  
29 R703.8 to prevent water from entering the weather-resistive barrier."

30 (b) The remaining sections are renumbered as follows: R109.1.6 Other inspections;  
31 R109.1.6.1 Fire- and smoke-resistance-rated construction inspection; R109.1.6.2 Reinforced  
32 masonry, insulating concrete form (ICF) and conventionally formed concrete wall inspection;  
33 and R109.1.7 Final inspection.

34 (2) IRC, Section R114.1, is deleted and replaced with the following: "R114.1 Notice to  
35 owner. Upon notice from the building official that work on any building or structure is being  
36 prosecuted contrary to the provisions of this code or other pertinent laws or ordinances or in an  
37 unsafe and dangerous manner, such work shall be immediately stopped. The stop work order  
38 shall be in writing and shall be given to the owner of the property involved, or to the owner's  
39 agent or to the person doing the work; and shall state the conditions under which work will be  
40 permitted to resume."

41 (3) In IRC, Section R202, the following definition is added: "CERTIFIED  
42 BACKFLOW PREVENTER ASSEMBLY TESTER: A person who has shown competence to  
43 test Backflow prevention assemblies to the satisfaction of the authority having jurisdiction  
44 under Utah Code, Subsection 19-4-104(4)."

45 (4) In IRC, Section R202, the definition of "Cross Connection" is deleted and replaced  
46 with the following: "CROSS CONNECTION. Any physical connection or potential  
47 connection or arrangement between two otherwise separate piping systems, one of which  
48 contains potable water and the other either water of unknown or questionable safety or steam,  
49 gas, or chemical, whereby there exists the possibility for flow from one system to the other,  
50 with the direction of flow depending on the pressure differential between the two systems (see  
51 "Backflow, Water Distribution")."

52 (5) In IRC, Section R202, the definition of "Potable Water" is deleted and replaced  
53 with the following: "POTABLE WATER. Water free from impurities present in amounts  
54 sufficient to cause disease or harmful physiological effects and conforming to the Utah Code,  
55 Title 19, Chapters 4, Safe Drinking Water Act, and 5, Water Quality Act, and the regulations of  
56 the public health authority having jurisdiction."

57 (6) IRC, Figure R301.2(5), is deleted and replaced with Table R301.2(5a) and Table  
58 R301.2(5b) as follows:

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"TABLE NO. R301.2(5a)				
STATE OF UTAH - REGIONAL SNOW LOAD FACTORS				
	COUNTY	P <sub>o</sub>	S	A <sub>o</sub>
	Beaver	43	63	6.2
	Box Elder	43	63	5.2
	Cache	50	63	4.5
	Carbon	43	63	5.2
	Daggett	43	63	6.5
	Davis	43	63	4.5
	Duchesne	43	63	6.5
	Emery	43	63	6.0
	Garfield	43	63	6.0
	Grand	36	63	6.5
	Iron	43	63	5.8
	Juab	43	63	5.2
	Kane	36	63	5.7
	Millard	43	63	5.3
	Morgan	57	63	4.5
	Piute	43	63	6.2
	Rich	57	63	4.1
	Salt Lake	43	63	4.5
	San Juan	43	63	6.5
	Sanpete	43	63	5.2
	Sevier	43	63	6.0
	Summit	86	63	5.0
	Tooele	43	63	4.5
	Uintah	43	63	7.0
	Utah	43	63	4.5

87	Wasatch	86	63	5.0
88	Washington	29	63	6.0
89	Wayne	36	63	6.5
90	Weber	43	63	4.5

91 TABLE NO. R301.2(5b)

92 RECOMMENDED SNOW LOADS FOR SELECTED UTAH CITIES AND TOWNS(2)

93			Roof Snow Load (PSF)	Ground Snow Load (PSF)
94	Beaver County			
95	Beaver	5,920 ft.	43	62
96	Box Elder County			
97	Brigham City	4,300 ft.	30	43
98	Tremonton	4,290 ft.	30	43
99	Cache County			
100	Logan	4,530 ft.	35	50
101	Smithfield	4,595 ft.	35	50
102	Carbon County			
103	Price	5,550 ft.	30	43
104	Daggett County			
105	Manila	5,377 ft.	30	43
106	Davis County			
107	Bountiful	4,300 ft.	30	43
108	Farmington	4,270 ft.	30	43
109	Layton	4,400 ft.	30	43
110	Fruit Heights	4,500 ft.	40	57
111	Duchesne County			
112	Duchesne	5,510 ft.	30	43
113	Roosevelt	5,104 ft.	30	43

114	Emery County			
115	Castle Dale	5,660 ft.	30	43
116	Green River	4,070 ft.	25	36
117	Garfield County			
118	Panguitch	6,600 ft.	30	43
119	Grand County			
120	Moab	3,965 ft.	25	36
121	Iron County			
122	Cedar City	5,831 ft.	30	43
123	Juab County			
124	Nephi	5,130 ft.	30	43
125	Kane County			
126	Kanab	5,000 ft.	25	36
127	Millard County			
128	Fillmore	5,000 ft.	30	43
129	Delta	4,623 ft.	30	43
130	Morgan County			
131	Morgan	5,064 ft.	40	57
132	Piute County			
133	Piute	5,996 ft.	30	43
134	Rich County			
135	Woodruff	6,315 ft.	40	57
136	Salt Lake County			
137	Murray	4,325 ft.	30	43
138	Salt Lake City	4,300 ft.	30	43
139	Sandy	4,500 ft.	30	43
140	West Jordan	4,375 ft.	30	43
141	West Valley	4,250 ft.	30	43

142	San Juan County			
143	Blanding	6,200 ft.	30	43
144	Monticello	6,820 ft.	35	50
145	Sanpete County			
146	Fairview	6,750 ft.	35	50
147	Mt. Pleasant	5,900 ft.	30	43
148	Manti	5,740 ft.	30	43
149	Ephraim	5,540 ft.	30	43
150	Gunnison	5,145 ft.	30	43
151	Sevier County			
152	Salina	5,130 ft.	30	43
153	Richfield	5,270 ft.	30	43
154	Summit County			
155	Coalville	5,600 ft.	60	86
156	Kamas	6,500 ft.	70	100
157	Park City	6,800 ft.	100	142
158	Park City	8,400 ft.	162	231
159	Summit Park	7,200 ft.	90	128
160	Tooele County			
161	Tooele	5,100 ft.	30	43
162	Uintah County			
163	Vernal	5,280 ft.	30	43
164	Utah County			
165	American Fork	4,500 ft.	30	43
166	Orem	4,650 ft.	30	43
167	Pleasant Grove	5,000 ft.	30	43
168	Provo	5,000 ft.	30	43
169	Spanish Fork	4,720 ft.	30	43

170	Wasatch County			
171	Heber	5,630 ft.	60	86
172	Washington County			
173	Central	5,209 ft.	25	36
174	Dameron	4,550 ft.	25	36
175	Leeds	3,460 ft.	20	29
176	Rockville	3,700 ft.	25	36
177	Santa Clara	2,850 ft.	15 (1)	21
178	St. George	2,750 ft.	15 (1)	21
179	Wayne County			
180	Loa	7,080 ft.	30	43
181	Hanksville	4,308 ft.	25	36
182	Weber County			
183	North Ogden	4,500 ft.	40	57
184	Ogden	4,350 ft.	30	43

185 NOTES

186 (1) The IRC requires a minimum live load - See R301.6.

187 (2) This table is informational only in that actual site elevations may vary. Table is only valid if site elevation is within 100 feet of the listed elevation."

188 (7) IRC, Section R301.6, is deleted and replaced with the following: "R301.6 Utah  
 189 Snow Loads. The ground snow load,  $P_g$ , to be used in the determination of design snow loads  
 190 for buildings and other structures shall be determined by using the following formula:  $P_g = (P_o^2$   
 191  $+ S^2(A-A_o)^2)^{0.5}$  for A greater than  $A_o$ , and  $P_g = P_o$  for A less than or equal to  $A_o$ .

192 WHERE:

193  $P_g$  = Ground snow load at a given elevation (psf);

194  $P_o$  = Base ground snow load (psf) from Table No. R301.2(5a);

195 S = Change in ground snow load with elevation (psf/100 ft.) From Table No. R301.2(5a);

196 A = Elevation above sea level at the site (ft./1,000);

197  $A_o$  = Base ground snow elevation from Table R301.2(5a) (ft./1,000).

198 The building official may round the roof snow load to the nearest 5 psf. The ground snow  
199 load,  $P_g$ , may be adjusted by the building official when a licensed engineer or architect submits  
200 data substantiating the adjustments. A record of such action together with the substantiating  
201 data shall be provided to the division for a permanent record.

202 The building official may also directly adopt roof snow loads in accordance with Table  
203 R301.2(5b), provided the site is no more than 100 ft. higher than the listed elevation.

204 Where the minimum roof live load in accordance with Table R301.6 is greater than the design  
205 roof snow load, such roof live load shall be used for design, however, it shall not be reduced to  
206 a load lower than the design roof snow load. Drifting need not be considered for roof snow  
207 loads less than 20 psf."

208 (8) In IRC, Section R302.2, the words "Exception: A" are deleted and replaced with the  
209 following: "Exceptions: 1. A common 2-hour fire-resistance-rated wall is permitted for  
210 townhouses if such walls do not contain plumbing or mechanical equipment, ducts or vents in  
211 the cavity of the common wall. Electrical installation shall be installed in accordance with  
212 Chapters 34 through 43. Penetrations of electrical outlet boxes shall be in accordance with  
213 Section R302.4.

214 2. In buildings equipped with an automatic residential fire sprinkler system, a".

215 (9) In IRC, Section R302.2.4, a new exception 6 is added as follows: "6. Townhouses  
216 separated by a common 2-hour fire-resistance-rated wall as provided in Section R302.2."

217 (10) In IRC, Section R310.1.1, the existing exception is numbered as exception 1, and  
218 a new exception 2 is added as follows: "2. An existing bedroom window if meeting the  
219 minimum opening requirement would compromise the structural integrity of the building or  
220 cannot be accomplished in accordance with current setback, window well, or other building  
221 code requirements."

222 [~~(10)~~] (11) IRC, Sections R311.7.4 through R311.7.4.3, are deleted and replaced with  
223 the following: "R311.7.4 Stair treads and risers. R311.7.4.1 Riser height. The maximum riser  
224 height shall be 8 inches (203 mm). The riser shall be measured vertically between leading  
225 edges of the adjacent treads. The greatest riser height within any flight of stairs shall not  
226 exceed the smallest by more than 3/8 inch (9.5 mm).

227 R311.7.4.2 Tread depth. The minimum tread depth shall be 9 inches (228 mm). The tread  
228 depth shall be measured horizontally between the vertical planes of the foremost projection of

229 adjacent treads and at a right angle to the tread's leading edge. The greatest tread depth within  
230 any flight of stairs shall not exceed the smallest by more than 3/8 inch (9.5 mm). Winder  
231 treads shall have a minimum tread depth of 10 inches (254 mm) measured as above at a point  
232 12 inches (305 mm) from the side where the treads are narrower. Winder treads shall have a  
233 minimum tread depth of 6 inches (152 mm) at any point. Within any flight of stairs, the  
234 greatest winder tread depth at the 12-inch (305 mm) walk line shall not exceed the smallest by  
235 more than 3/8 inch (9.5 mm).

236 R311.7.4.3 Profile. The radius of curvature at the leading edge of the tread shall be no greater  
237 than 9/16 inch (14.3 mm). A nosing not less than 3/4 inch (19 mm) but not more than 1 1/4  
238 inches (32 mm) shall be provided on stairways with solid risers. The greatest nosing projection  
239 shall not exceed the smallest nosing projection by more than 3/8 inch (9.5 mm) between two  
240 stories, including the nosing at the level of floors and landings. Beveling of nosing shall not  
241 exceed 1/2 inch (12.7 mm). Risers shall be vertical or sloped from the underside of the leading  
242 edge of the tread above at an angle not more than 30 degrees (0.51 rad) from the vertical. Open  
243 risers are permitted, provided that the opening between treads does not permit the passage of a  
244 4-inch diameter (102 mm) sphere.

245 Exceptions.

- 246 1. A nosing is not required where the tread depth is a minimum of 10 inches (254 mm).
- 247 2. The opening between adjacent treads is not limited on stairs with a total rise of 30 inches  
248 (762 mm) or less."

249 [~~(H)~~] (12) In IRC, Section R312.2, the words "adjacent fixed seating" are deleted.

250 [~~(H2)~~] (13) IRC, Section R313, is deleted.

251 [~~(H3)~~] (14) IRC, Section R315.1, is deleted and replaced with the following: "R315.1  
252 Carbon monoxide alarms. For new construction, a listed carbon monoxide alarm shall be  
253 installed on each habitable level of dwelling units within which fuel-fired appliances are  
254 installed and in dwelling units that have attached garages."

255 [~~(H4)~~] (15) IRC, Section R315.3, is deleted and replaced with the following: "R315.3  
256 Alarm requirements. Listed single- and multiple-station carbon monoxide alarms shall comply  
257 with UL 2034 and shall be installed in accordance with the provision of this code and NFPA  
258 720."

259 [~~(H5)~~] (16) In IRC, Section R403.1.6, a new Exception 4 is added as follows: "4.

260 When anchor bolt spacing does not exceed 32 inches (813 mm) apart, anchor bolts may be  
261 placed with a minimum of two bolts per plate section located not less than 4 inches (102 mm)  
262 from each end of each plate section at interior bearing walls, interior braced wall lines, and at  
263 all exterior walls."

264 [~~(16)~~] (17) In IRC, Section R403.1.6.1, a new exception is added at the end of Item 2  
265 and Item 3 as follows: "Exception: When anchor bolt spacing does not exceed 32 inches (816  
266 mm) apart, anchor bolts may be placed with a minimum of two bolts per plate section located  
267 not less than 4 inches (102 mm) from each end of each plate section at interior bearing walls,  
268 interior braced wall lines, and at all exterior walls."

269 [~~(17)~~] (18) In IRC, Section R404.1, a new exception is added as follows: "Exception:  
270 As an alternative to complying with Sections R404.1 through R404.1.5.3, concrete and  
271 masonry foundation walls may be designed in accordance with IBC Sections 1807.1.5 and  
272 1807.1.6 as amended in Section 1807.1.6.4 and Table 1807.1.6.4 under these rules."

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**Legislative Review Note**  
**as of 2-3-12 11:25 AM**

**Office of Legislative Research and General Counsel**