

**BUILDING CODE AMENDMENTS**

2020 GENERAL SESSION

STATE OF UTAH

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**LONG TITLE****General Description:**

This bill addresses swimming pool, spa, and aviation related construction provisions.

**Highlighted Provisions:**

This bill:

- ▶ adopts and amends the residential provisions of the 2018 edition of the International Swimming Pool and Spa Code;
- ▶ under certain conditions, exempts airport hangars from having a fire-resistance exterior wall rating of not less than two hours;
- ▶ amends citations in amendments to the International Plumbing Code;
- ▶ amends a citation in an amendment to the International Mechanical Code;
- ▶ amends provisions in the International Existing Building Code; and
- ▶ makes technical and conforming changes.

**Money Appropriated in this Bill:**

None

**Other Special Clauses:**

None

**Utah Code Sections Affected:**

AMENDS:

**15A-1-202**, as last amended by Laws of Utah 2019, Chapter 20

**15A-2-102**, as last amended by Laws of Utah 2016, Chapter 249

**15A-2-103**, as last amended by Laws of Utah 2019, Chapters 20 and 436

**15A-3-103**, as last amended by Laws of Utah 2019, Chapter 20

**15A-3-112**, as last amended by Laws of Utah 2019, Chapter 20

**15A-3-202**, as last amended by Laws of Utah 2019, Chapter 20

**15A-3-304**, as last amended by Laws of Utah 2019, Chapter 20

**15A-3-313**, as last amended by Laws of Utah 2016, Chapter 249

**15A-3-402**, as enacted by Laws of Utah 2017, Chapter 14

33           **15A-3-801**, as last amended by Laws of Utah 2019, Chapter 20

34 ENACTS:

35           **15A-3-1001**, Utah Code Annotated 1953

36

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

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

39           **15A-1-202. Definitions.**

40           As used in this chapter:

41           (1) "Agricultural use" means a use that relates to the tilling of soil and raising of crops,  
42 or keeping or raising domestic animals.

43           (2) (a) "Approved code" means a code, including the standards and specifications  
44 contained in the code, approved by the division under Section 15A-1-204 for use by a  
45 compliance agency.

46           (b) "Approved code" does not include the State Construction Code.

47           (3) "Building" means a structure used or intended for supporting or sheltering any use  
48 or occupancy and any improvements attached to it.

49           (4) "Code" means:

50           (a) the State Construction Code; or

51           (b) an approved code.

52           (5) "Commission" means the Uniform Building Code Commission created in Section  
53 15A-1-203.

54           (6) "Compliance agency" means:

55           (a) an agency of the state or any of its political subdivisions which issues permits for  
56 construction regulated under the codes;

57           (b) any other agency of the state or its political subdivisions specifically empowered to  
58 enforce compliance with the codes; or

59           (c) any other state agency which chooses to enforce codes adopted under this chapter  
60 by authority given the agency under a title other than this part and Part 3, Factory Built  
61 Housing and Modular Units Administration Act.

62           (7) "Construction code" means standards and specifications published by a nationally  
63 recognized code authority for use in circumstances described in Subsection 15A-1-204(1),

64 including:

65 (a) a building code;

66 (b) an electrical code;

67 (c) a residential one and two family dwelling code;

68 (d) a plumbing code;

69 (e) a mechanical code;

70 (f) a fuel gas code;

71 (g) an energy conservation code; ~~[and]~~

72 (h) a swimming pool and spa code; and

73 ~~[(h)]~~ (i) a manufactured housing installation standard code.

74 (8) "Executive director" means the executive director of the Department of Commerce.

75 (9) "Legislative action" includes legislation that:

76 (a) adopts a new State Construction Code;

77 (b) amends the State Construction Code; or

78 (c) repeals one or more provisions of the State Construction Code.

79 (10) "Local regulator" means a political subdivision of the state that is empowered to  
80 engage in the regulation of construction, alteration, remodeling, building, repair, and other  
81 activities subject to the codes.

82 (11) "Not for human occupancy" means use of a structure for purposes other than  
83 protection or comfort of human beings, but allows people to enter the structure for:

84 (a) maintenance and repair; and

85 (b) the care of livestock, crops, or equipment intended for agricultural use which are  
86 kept there.

87 (12) "Opinion" means a written, nonbinding, and advisory statement issued by the  
88 commission concerning an interpretation of the meaning of the codes or the application of the  
89 codes in a specific circumstance issued in response to a specific request by a party to the issue.

90 (13) "State regulator" means an agency of the state which is empowered to engage in  
91 the regulation of construction, alteration, remodeling, building, repair, and other activities  
92 subject to the codes adopted pursuant to this chapter.

93 Section 2. Section **15A-2-102** is amended to read:

94 **15A-2-102. Definitions.**

95 As used in this chapter and Chapter 3, Statewide Amendments Incorporated as Part of  
96 State Construction Code, and Chapter 4, Local Amendments Incorporated as Part of State  
97 Construction Code:

98 (1) "HUD Code" means the Federal Manufactured Housing Construction and Safety  
99 Standards Act, as issued by the Department of Housing and Urban Development and published  
100 in 24 C.F.R. Parts 3280 and 3282 (as revised April 1, 1990).

101 (2) "IBC" means the edition of the International Building Code adopted under Section  
102 15A-2-103.

103 (3) "IEBC" means the edition of the International Existing Building Code adopted  
104 under Section 15A-2-103.

105 (4) "IECC" means the edition of the International Energy Conservation Code adopted  
106 under Section 15A-2-103.

107 (5) "IFGC" means the edition of the International Fuel Gas Code adopted under  
108 Section 15A-2-103.

109 (6) "IMC" means the edition of the International Mechanical Code adopted under  
110 Section 15A-2-103.

111 (7) "IPC" means the edition of the International Plumbing Code adopted under Section  
112 15A-2-103.

113 (8) "IRC" means the edition of the International Residential Code adopted under  
114 Section 15A-2-103.

115 (9) "ISPSC" means the edition of the International Swimming Pool and Spa Code  
116 adopted under Section 15A-2-103.

117 [~~9~~] (10) "NEC" means the edition of the National Electrical Code adopted under  
118 Section 15A-2-103.

119 [~~10~~] (11) "UWUI" means the edition of the Utah Wildland Urban Interface Code  
120 adopted under Section 15A-2-103.

121 Section 3. Section **15A-2-103** is amended to read:

122 **15A-2-103. Specific editions adopted of construction code of a nationally**  
123 **recognized code authority.**

124 (1) Subject to the other provisions of this part, the following construction codes are  
125 incorporated by reference, and together with the amendments specified in Chapter 3, Statewide

126 Amendments Incorporated as Part of State Construction Code, and Chapter 4, Local  
127 Amendments Incorporated as Part of State Construction Code, are the construction standards to  
128 be applied to building construction, alteration, remodeling, and repair, and in the regulation of  
129 building construction, alteration, remodeling, and repair in the state:

130 (a) the 2018 edition of the International Building Code, including Appendix J, issued  
131 by the International Code Council;

132 (b) the 2015 edition of the International Residential Code, issued by the International  
133 Code Council;

134 (c) Appendix Q of the 2018 edition of the International Residential Code, issued by the  
135 International Code Council;

136 (d) the 2018 edition of the International Plumbing Code, issued by the International  
137 Code Council;

138 (e) the 2018 edition of the International Mechanical Code, issued by the International  
139 Code Council;

140 (f) the 2018 edition of the International Fuel Gas Code, issued by the International  
141 Code Council;

142 (g) the 2017 edition of the National Electrical Code, issued by the National Fire  
143 Protection Association;

144 (h) the residential provisions of the 2015 edition of the International Energy  
145 Conservation Code, issued by the International Code Council;

146 (i) the commercial provisions of the 2018 edition of the International Energy  
147 Conservation Code, issued by the International Code Council;

148 (j) the 2018 edition of the International Existing Building Code, issued by the  
149 International Code Council;

150 (k) subject to Subsection 15A-2-104(2), the HUD Code;

151 (l) subject to Subsection 15A-2-104(1), Appendix E of the 2015 edition of the  
152 International Residential Code, issued by the International Code Council;

153 (m) subject to Subsection 15A-2-104(1), the 2005 edition of the NFPA 225 Model  
154 Manufactured Home Installation Standard, issued by the National Fire Protection Association;

155 [~~and~~]

156 (n) subject to Subsection (3), for standards and guidelines pertaining to plaster on a

157 historic property, as defined in Section 9-8-302, the U.S. Department of the Interior Secretary's  
158 Standards for Rehabilitation and Guidelines for Rehabilitating Historic Buildings[-]; and  
159 (o) the residential provisions of the 2018 edition of the International Swimming Pool  
160 and Spa Code, issued by the International Code Council.

161 (2) Consistent with Title 65A, Chapter 8, Management of Forest Lands and Fire  
162 Control, the Legislature adopts the 2006 edition of the Utah Wildland Urban Interface Code,  
163 issued by the International Code Council, with the alternatives or amendments approved by the  
164 Utah Division of Forestry, as a construction code that may be adopted by a local compliance  
165 agency by local ordinance or other similar action as a local amendment to the codes listed in  
166 this section.

167 (3) The standards and guidelines described in Subsection (1)(n) apply only if:

168 (a) the owner of the historic property receives a government tax subsidy based on the  
169 property's status as a historic property;

170 (b) the historic property is wholly or partially funded by public money; or

171 (c) the historic property is owned by a government entity.

172 Section 4. Section **15A-3-103** is amended to read:

173 **15A-3-103. Amendments to Chapters 4 through 6 of IBC.**

174 (1) IBC Section 403.5.5 is deleted.

175 (2) In IBC, Section 407.2.5, the words "and assisted living facility" are added in the  
176 title and first sentence after the words "nursing home."

177 (3) In IBC, Section 407.2.6, the words "and assisted living facility" are added in the  
178 title after the words "nursing home."

179 (4) In IBC, Section 407.11, a new exception is added as follows: "Exception: An  
180 essential electrical system is not required in assisted living facilities."

181 (5) In IBC, Section 412.3.1, a new exception is added as follows: "Exception: Aircraft  
182 hangars of type I or II construction less than 5,000 sq. ft."

183 [~~5~~] (6) A new IBC, Section 422.2.1 is added as follows: "422.2.1 Separations:  
184 Ambulatory care facilities licensed by the Department of Health shall be separated from  
185 adjacent tenants with a fire partition having a minimum one hour fire-resistance rating. Any  
186 level below the level of exit discharge shall be separated from the level of exit discharge by a  
187 horizontal assembly having a minimum one hour fire-resistance rating.

188 Exception: A fire barrier is not required to separate the level of exit discharge when:  
189 1. Such levels are under the control of the Ambulatory Care Facility.  
190 2. Any hazardous spaces are separated by horizontal assembly having a minimum one hour  
191 fire-resistance rating."

192 [(6)] (7) A new IBC Section 429, Day Care, is added as follows:

193 " 429.1 Detailed Requirements. In addition to the occupancy and construction requirements in  
194 this code, the additional provisions of this section shall apply to all Day Care in accordance  
195 with Utah Administrative Code R710-8 Day Care Rules.

196 429.2 Definitions.

197 429.2.1 Authority Having Jurisdiction (AHJ): State Fire Marshal, his duly authorized deputies,  
198 or the local fire enforcement authority code official.

199 429.2.2 Day Care Facility: Any building or structure occupied by clients of any age who  
200 receive custodial care for less than 24 hours by individuals other than parents, guardians,  
201 relatives by blood, marriage or adoption.

202 429.2.3 Day Care Center: Providing care for five or more clients in a place other than the home  
203 of the person cared for. This would also include Child Care Centers, Out of School Time or  
204 Hourly Child Care Centers licensed by the Department of Health.

205 429.2.4 Family Day Care: Providing care for clients listed in the following two groups:

206 429.2.4.1 Type 1: Services provided for five to eight clients in a home. This would also  
207 include a home that is certified by the Department of Health as Residential Certificate Child  
208 Care or licensed as Family Child Care.

209 429.2.4.2 Type 2: Services provided for nine to sixteen clients in a home with sufficient  
210 staffing. This would also include a home that is licensed by the Department of Health as  
211 Family Child Care.

212 429.2.5 R710-8: Utah Administrative Code, R710-8, Day Care Rules, as enacted under the  
213 authority of the Utah Fire Prevention Board.

214 429.3 Family Day Care.

215 429.3.1 Family Day Care units shall have on each floor occupied by clients, two separate  
216 means of egress, arranged so that if one is blocked the other will be available.

217 429.3.2 Family Day Care units that are located in the basement or on the second story shall be  
218 provided with two means of egress, one of which shall discharge directly to the outside.

219 429.3.2.1 Residential Certificate Child Care and Licensed Family Child Care with five to eight  
220 clients in a home, located on the ground level or in a basement, may use an emergency escape  
221 or rescue window as allowed in IFC, Chapter 10, Section 1030.

222 429.3.3 Family Day Care units shall not be located above the second story.

223 429.3.4 In Family Day Care units, clients under the age of two shall not be located above or  
224 below the first story.

225 429.3.4.1 Clients under the age of two may be housed above or below the first story where  
226 there is at least one exit that leads directly to the outside and complies with IFC, Section 1011  
227 or Section 1012 or Section 1027.

228 429.3.5 Family Day Care units located in split entry/split level type homes in which stairs to  
229 the lower level and upper level are equal or nearly equal, may have clients housed on both  
230 levels when approved by the AHJ.

231 429.3.6 Family Day Care units shall have a portable fire extinguisher on each level occupied by  
232 clients, which shall have a classification of not less than 2A:10BC, and shall be serviced in  
233 accordance with NFPA, Standard 10, Standard for Portable Fire Extinguishers.

234 429.3.7 Family Day Care units shall have single station smoke detectors in good operating  
235 condition on each level occupied by clients. Battery operated smoke detectors shall be  
236 permitted if the facility demonstrates testing, maintenance, and battery replacement to insure  
237 continued operation of the smoke detectors.

238 429.3.8 Rooms in Family Day Care units that are provided for clients to sleep or nap, shall  
239 have at least one window or door approved for emergency escape.

240 429.3.9 Fire drills shall be conducted in Family Day Care units quarterly and shall include the  
241 complete evacuation from the building of all clients and staff. At least annually, in Type I  
242 Family Day Care units, the fire drill shall include the actual evacuation using the escape or  
243 rescue window, if one is used as a substitute for one of the required means of egress.

244 429.4 Day Care Centers.

245 429.4.1 Day Care Centers shall comply with either I-4 requirements or E requirements of the  
246 IBC, whichever is applicable for the type of Day Care Center.

247 429.4.2 Emergency Evacuation Drills shall be completed as required in IFC, Chapter 4, Section  
248 405.

249 429.4.3 Location at grade. Group E child day care centers shall be located at the level of exit

250 discharge.

251 429.4.3.1 Child day care spaces for children over the age of 24 months may be located on the  
252 second floor of buildings equipped with automatic fire protection throughout and an automatic  
253 fire alarm system.

254 429.4.4 Egress. All Group E child day care spaces with an occupant load of more than 10 shall  
255 have a second means of egress. If the second means of egress is not an exit door leading  
256 directly to the exterior, the room shall have an emergency escape and rescue window  
257 complying with Section 1030.

258 429.4.5 All Group E Child Day Care Centers shall comply with Utah Administrative Code,  
259 R430-100 Child Care Centers, R430-60 Hourly Child Care Centers, and R430-70 Out of  
260 School Time.

261 429.5 Requirements for all Day Care.

262 429.5.1 Heating equipment in spaces occupied by children shall be provided with partitions,  
263 screens, or other means to protect children from hot surfaces and open flames.

264 429.5.2 A fire escape plan shall be completed and posted in a conspicuous place. All staff shall  
265 be trained on the fire escape plan and procedure."

266 ~~(7)~~ (8) In IBC, Section 504.4, a new section is added as follows: "504.4.1  
267 Notwithstanding the exceptions to Section 504.2, Group I-2 Assisted Living Facilities shall be  
268 allowed on each level of a two-story building of Type V-A construction when all of the  
269 following apply:

- 270 1. All secured units are located at the level of exit discharge in compliance with Section  
271 1010.1.9.3 as amended;
- 272 2. The total combined area of both stories shall not exceed the total allowable area for a  
273 one-story building; and
- 274 3. All other provisions that apply in Section 407 have been provided."

275 ~~(8)~~ (9) In IBC, Section 504.4, a new section is added as follows: "504.4.2 Group I-2  
276 Assisted Living Facilities. Notwithstanding the allowable number of stories permitted by Table  
277 504.4 Group I-2 Assisted Living Facilities of type VA, construction shall be allowed on each  
278 level of a two-story building when all of the following apply:

- 279 1. The total combined area of both stories does not exceed the total allowable area for a  
280 one-story, above grade plane building equipped throughout with an automatic sprinkler system

281 installed in accordance with Section 903.3.1.1.

282 2. All other provisions that apply in Section 407 have been provided."

283 ~~[(9)]~~ (10) A new IBC, Section 504.5, is added as follows: "504.5 Group 1-2 Secured  
284 areas in Assisted Living Facilities. In Type IIIB, IV, and V construction, all areas for the use  
285 and care of residents required to be secured shall be located on the level of exit discharge with  
286 door operations in compliance with Section 1010.1.9.7, as amended."

287 Section 5. Section **15A-3-112** is amended to read:

288 **15A-3-112. Amendments to Chapters 29 through 31 of IBC.**

289 (1) In IBC [P] Table 2902.1 the following changes are made:

290 (a) In the row for "E" occupancy in the field for "OTHER" a new footnote i is added.

291 (b) In the row for "I-4" occupancy in the field for "OTHER" a new footnote i is added.

292 (c) A new footnote h is added as follows: "FOOTNOTE: g. When provided, subject to  
293 footnote i, in public toilet facilities there shall be an equal number of diaper changing facilities  
294 in male toilet rooms and female toilet rooms."

295 (d) A new footnote h is added to the table as follows: "FOOTNOTE h: Non-residential  
296 child care facilities shall comply with additional sink requirements of Utah Administrative  
297 Code, R381-60-9, Hourly Child Care Centers, R381-70-9, Out of School Time Child Care  
298 Programs, and R381-100-9, Child Care Centers."

299 (e) A new footnote i is added to the table as follows: "FOOTNOTE i: A building  
300 owned by a state government entity or by a political subdivision of the state that allows access  
301 to the public shall provide diaper changing facilities in accordance with footnote h if:

302 1. the building is newly constructed; or

303 2. a bathroom in the building is renovated."

304 (f) Footnote f is deleted and replaced with the following: "FOOTNOTE f: The required  
305 number and type of plumbing fixtures for outdoor public swimming pools shall be in  
306 accordance with Utah Administrative Code, R392-302, Design, Construction and Operation of  
307 Public Pools."

308 (2) A new IBC, Section [P]2902.7, is added as follows:

309 "[P]2902.7 Toilet Facilities for Workers.

310 Toilet facilities shall be provided for construction workers and such facilities shall be

311 maintained in a sanitary condition. Construction worker toilet facilities of the nonsewer type

312 shall conform to ANSI Z4.3."

313 (3) In IBC, Section 3006.5, a new exception is added as follows: "Exception: Hydraulic  
314 elevators and roped hydraulic elevators with a rise of 50 feet or less."

315 (4) In IBC, Section 3109.1, the words "the International Swimming Pool and Spa  
316 Code" at the end of the section are deleted and replaced with the words "Utah Administrative  
317 Code, R392-302, Design, Construction and Operation of Public Pools."

318 Section 6. Section **15A-3-202** is amended to read:

319 **15A-3-202. Amendments to Chapters 1 through 5 of IRC.**

320 (1) In IRC, Section R102, a new Section R102.7.2 is added as follows: "R102.7.2  
321 Physical change for bedroom window egress. A structure whose egress window in an existing  
322 bedroom is smaller than required by this code, and that complied with the construction code in  
323 effect at the time that the bedroom was finished, is not required to undergo a physical change to  
324 conform to this code if the change would compromise the structural integrity of the structure or  
325 could not be completed in accordance with other applicable requirements of this code,  
326 including setback and window well requirements."

327 (2) In IRC, Section 109:

328 (a) A new IRC, Section 109.1.5, is added as follows: "R109.1.5 Weather-resistant  
329 exterior wall envelope inspections. An inspection shall be made of the weather-resistant  
330 exterior wall envelope as required by Section R703.1 and flashings as required by Section  
331 R703.8 to prevent water from entering the weather-resistive barrier."

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

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

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

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

354 (6) In IRC, Section 202, in the definition for gray water a comma is inserted after the  
 355 word "washers"; the word "and" is deleted; and the following is added to the end: "and clear  
 356 water wastes which have a pH of 6.0 to 9.0; are non-flammable; non-combustible; without  
 357 objectionable odors; non-highly pigmented; and will not interfere with the operation of the  
 358 sewer treatment facility."

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

364 (8) IRC, Figure R301.2(5), is deleted and replaced with R301.2(5) as follows:

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"TABLE R301.2(5)			
GROUND SNOW LOADS FOR SELECTED LOCATIONS IN UTAH			
City/Town	County	Ground Snow Load (lb/ft <sup>2</sup> )	Elevation (ft)
Beaver	Beaver	35	5886
Brigham City	Box Elder	42	4423
Castle Dale	Emery	32	5669
Coalville	Summit	57	5581
Duchesne	Duchesne	39	5508

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373	Farmington	Davis	35	4318
374	Fillmore	Millard	30	5138
375	Heber City	Wasatch	60	5604
376	Junction	Piute	27	6030
377	Kanab	Kane	25	4964
378	Loa	Wayne	37	7060
379	Logan	Cache	43	4531
380	Manila	Daggett	26	6368
381	Manti	Sanpete	37	5620
382	Moab	Grand	21	4029
383	Monticello	San Juan	67	7064
384	Morgan	Morgan	52	5062
385	Nephi	Juab	39	5131
386	Ogden	Weber	37	4334
387	Panguitch	Garfield	41	6630
388	Parowan	Iron	32	6007
389	Price	Carbon	31	5558
390	Provo	Utah	31	4541
391	Randolph	Rich	50	6286
392	Richfield	Sevier	27	5338
393	St. George	Washington	21	2585
394	Salt Lake City	Salt Lake	28	4239
395	Tooele	Tooele	35	5029
396	Vernal	Uintah	39	5384

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Note: To convert lb/ft<sup>2</sup> to kN/m<sup>2</sup>, multiply by 0.0479. To convert feet to meters, multiply by 0.3048.

1. Statutory requirements of the Authority Having Jurisdiction are not included in this state ground snow load table.

2. For locations where there is substantial change in altitude over the city/town, the load applies at and below the cited elevation, with a tolerance of 100 ft (30 m).

3. For other locations in Utah, see Bean, B., Maguire, M., Sun, Y. (2018), "The Utah Snow Load Study," Utah State University Civil and Environmental Engineering Faculty Publications, Paper 3589, <http://utahsnowload.usu.edu/>, for ground snow load values.

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(9) IRC, Section R301.6, is deleted and replaced with the following: "R301.6 Utah

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Snow Loads. The snow loads specified in Table R301.2(5b) shall be used for the jurisdictions

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identified in that table. Otherwise, for other locations in Utah, see Bean, B., Maguire, M., Sun,

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Y. (2018), "The Utah Snow Load Study," Utah State University Civil and Environmental

402

Engineering Faculty Publications, Paper 3589, <http://utahsnowload.usu.edu/>, for ground snow

403

load values."

404

(10) In IRC, Section R302.2, the following sentence is added after the second sentence:

405

"When an access/maintenance agreement or easement is in place, plumbing, mechanical

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ducting, schedule 40 steel gas pipe, and electric service conductors including feeders, are

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permitted to penetrate the common wall at grade, above grade, or below grade."

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(11) In IRC, Section R302.5.1, the words "self-closing device" are deleted and replaced

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with "self-latching hardware."

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(12) IRC, Section R302.13, is deleted.

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(13) In IRC, Section R303.4, the number "5" is changed to "3" in the first sentence.

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(14) IRC, Sections R311.7.4 through R311.7.5.3, are deleted and replaced with the

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following: "R311.7.4 Stair treads and risers. R311.7.5.1 Riser height. The maximum riser

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height shall be 8 inches (203 mm). The riser shall be measured vertically between leading

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edges of the adjacent treads. The greatest riser height within any flight of stairs shall not

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exceed the smallest by more than 3/8 inch (9.5 mm).

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R311.7.5.2 Tread depth. The minimum tread depth shall be 9 inches (228 mm). The tread

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depth shall be measured horizontally between the vertical planes of the foremost projection of

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adjacent treads and at a right angle to the tread's leading edge. The greatest tread depth within

420 any flight of stairs shall not exceed the smallest by more than 3/8 inch (9.5 mm). Winder  
421 treads shall have a minimum tread depth of 10 inches (254 mm) measured as above at a point  
422 12 inches (305 mm) from the side where the treads are narrower. Winder treads shall have a  
423 minimum tread depth of 6 inches (152 mm) at any point. Within any flight of stairs, the  
424 greatest winder tread depth at the 12-inch (305 mm) walk line shall not exceed the smallest by  
425 more than 3/8 inch (9.5 mm).

426 R311.7.5.3 Profile. The radius of curvature at the leading edge of the tread shall be no greater  
427 than 9/16 inch (14.3 mm). A nosing not less than 3/4 inch (19 mm) but not more than 1 1/4  
428 inches (32 mm) shall be provided on stairways with solid risers. The greatest nosing projection  
429 shall not exceed the smallest nosing projection by more than 3/8 inch (9.5 mm) between two  
430 stories, including the nosing at the level of floors and landings. Beveling of nosing shall not  
431 exceed 1/2 inch (12.7 mm). Risers shall be vertical or sloped from the underside of the leading  
432 edge of the tread above at an angle not more than 30 degrees (0.51 rad) from the vertical. Open  
433 risers are permitted, provided that the opening between treads does not permit the passage of a  
434 4-inch diameter (102 mm) sphere.

435 Exceptions.

436 1. A nosing is not required where the tread depth is a minimum of 10 inches (254 mm).

437 2. The opening between adjacent treads is not limited on stairs with a total rise of 30 inches  
438 (762 mm) or less."

439 (15) IRC, Section R312.2, is deleted.

440 (16) IRC, Sections R313.1 through R313.2.1, are deleted and replaced with the  
441 following: "R313.1 Design and installation. When installed, automatic residential fire  
442 sprinkler systems for townhouses or one- and two-family dwellings shall be designed and  
443 installed in accordance with Section P2904 or NFPA 13D."

444 (17) In IRC, Section 315.3, the following words are added to the first sentence after the  
445 word "installed": "on each level of the dwelling unit and."

446 (18) In IRC, Section R315.5, a new exception, 3, is added as follows:

447 "3. Hard wiring of carbon monoxide alarms in existing areas shall not be required where the  
448 alterations or repairs do not result in the removal of interior wall or ceiling finishes exposing  
449 the structure, unless there is an attic, crawl space or basement available which could provide  
450 access for hard wiring, without the removal of interior finishes."

451 (19) A new IRC, Section R315.7, is added as follows: " R315.7 Interconnection.  
452 Where more than one carbon monoxide alarm is required to be installed within an individual  
453 dwelling unit in accordance with Section R315.1, the alarm devices shall be interconnected in  
454 such a manner that the actuation of one alarm will activate all of the alarms in the individual  
455 unit. Physical interconnection of smoke alarms shall not be required where listed wireless  
456 alarms are installed and all alarms sound upon activation of one alarm.

457 Exception: Interconnection of carbon monoxide alarms in existing areas shall not be required  
458 where alterations or repairs do not result in removal of interior wall or ceiling finishes exposing  
459 the structure, unless there is an attic, crawl space or basement available which could provide  
460 access for interconnection without the removal of interior finishes."

461 (20) In IRC, Section 326.1, the words "residential provisions of the" are added after the  
462 words "pools and spas shall comply with."

463 [~~(20)~~] (21) In IRC, Section R403.1.6, a new Exception 3 is added as follows: " 3.  
464 When anchor bolt spacing does not exceed 32 inches (813 mm) apart, anchor bolts may be  
465 placed with a minimum of two bolts per plate section located not less than 4 inches (102 mm)  
466 from each end of each plate section at interior bearing walls, interior braced wall lines, and at  
467 all exterior walls."

468 [~~(21)~~] (22) In IRC, Section R403.1.6.1, a new exception is added at the end of Item 2  
469 and Item 3 as follows: "Exception: When anchor bolt spacing does not exceed 32 inches (816  
470 mm) apart, anchor bolts may be placed with a minimum of two bolts per plate section located  
471 not less than 4 inches (102 mm) from each end of each plate section at interior bearing walls,  
472 interior braced wall lines, and at all exterior walls."

473 [~~(22)~~] (23) In IRC, Section R404.1, a new exception is added as follows: "Exception:  
474 As an alternative to complying with Sections R404.1 through R404.1.5.3, concrete and  
475 masonry foundation walls may be designed in accordance with IBC Sections 1807.1.5 and  
476 1807.1.6 as amended in Section 1807.1.6.4 and Table 1807.1.6.4 under these rules."

477 [~~(23)~~] (24) In IRC, Section R405.1, a new exception is added as follows: "Exception:  
478 When a geotechnical report has been provided for the property, a drainage system is not  
479 required unless the drainage system is required as a condition of the geotechnical report. The  
480 geological report shall make a recommendation regarding a drainage system."

481 Section 7. Section **15A-3-304** is amended to read:

482           **15A-3-304. Amendments to Chapter 4 of IPC.**

483           (1) In IPC, Table 403.1, the following changes are made:

484           (a) In row number "3", for in the field for "OTHER", a new footnote h is added.

485           (b) In row number "5", for "Adult day care and child day care" occupancy, in the field  
486 for "OTHER", a new footnote h is added.

487           (c) Footnote f is deleted and replaced with the following: "FOOTNOTE f: The required  
488 number and type of plumbing fixtures for outdoor public swimming pools shall be in  
489 accordance with Utah Administrative Code, R392-302 Design, Construction and Operation of  
490 Public Pools."

491           (d) A new footnote g is added as follows: "FOOTNOTE: g: When provided, in public  
492 toilet facilities, there shall be an equal number of diaper changing facilities in male toilet rooms  
493 and female toilet rooms. Diaper changing facilities shall meet the requirements of ASTM  
494 F2285-04 (2010) Standard Consumer Safety Performance Specifications for Diaper Changing  
495 Tables for Commercial Use."

496           (e) A new footnote h is added to the table as follows: "FOOTNOTE h: Non-residential  
497 child care facilities shall comply with the additional sink requirements of Utah Administrative  
498 Code, R381-60-9, Hourly Child Care Centers, R381-70-9, Out of School Time Child Care  
499 Programs, and R381-100-9, Child Care Centers."

500           (2) A new IPC, Section 406.3, is added as follows: "406.3 Automatic clothes washer  
501 safe pans. Safe pans, when installed under automatic clothes washers, shall be installed in  
502 accordance with Section 504.7."

503           (3) A new IPC, Section 413.5, is added as follows: "413.5 Public toilet rooms. All  
504 public toilet rooms shall be equipped with at least one floor drain."

505           (4) A new IPC, Section [~~412.6~~] 413.6, is added as follows: "Prohibition of motor  
506 vehicle waste disposal wells. New and existing motor vehicle waste disposal wells are  
507 prohibited. A motor vehicle waste disposal well associated with a single family residence is not  
508 subject to this prohibition."

509           (5) IPC, Section 423.3, is deleted.

510           Section 8. Section **15A-3-313** is amended to read:

511           **15A-3-313. Amendments to Chapter 13 of IPC.**

512           (1) A new IPC, Section 1301.4.1, is added as follows:

513 "1301.4.1 Recording.

514 The existence of a nonpotable water system shall be recorded on the deed of ownership for the  
515 property. The certificate of occupancy shall not be issued until the documentation for the  
516 recording required under this section is completed by the property owner."

517 (2) IPC, Section 1301.5, is deleted and replaced with the following:

518 "1301.5 Potable water connections.

519 Where a potable water system is connected to a nonpotable water system, the potable water  
520 supply shall be protected against backflow by a reduced pressure backflow prevention  
521 assembly or an air gap installed in accordance with Section 608."

522 (3) IPC, Section [~~1301.9.5~~] 1301.9.4, is deleted and replaced with the following:

523 "[~~1301.9.5~~] 1301.9.4 Makeup water.

524 Where an uninterrupted supply is required for the intended application, potable or reclaimed  
525 water shall be provided as a source of makeup water for the storage tank. The makeup water  
526 supply shall be protected against backflow by a reduced pressure backflow prevention  
527 assembly or an air gap installed in accordance with Section 608. A full-open valve located on  
528 the makeup water supply line to the storage tank shall be provided. Inlets to the storage tank  
529 shall be controlled by fill valves or other automatic supply valves installed to prevent the tank  
530 from overflowing and to prevent the water level from dropping below a predetermined point.  
531 Where makeup water is provided, the water level shall not be permitted to drop below the  
532 source water inlet or the intake of any attached pump."

533 (4) IPC, Section 1302.12.4, is deleted and replaced with the following:

534 "1302.12.4 Inspection and testing of backflow prevention assemblies.

535 Testing of a backflow preventer shall be conducted in accordance with Sections 312.10.1,  
536 312.10.2, and 312.10.3."

537 (5) IPC, Section 1303.15.6, is deleted and replaced with the following:

538 "1303.15.6 Inspection and testing of backflow prevention assemblies.

539 Testing of a backflow prevention assembly shall be conducted in accordance with Sections  
540 312.10.1, 312.10.2, and 312.10.3."

541 (6) IPC, Section 1304.4.2, is deleted and replaced with the following:

542 "1304.4.2 Inspection and testing of backflow prevention assemblies.

543 Testing of a backflow preventer or backwater valve shall be conducted in accordance with

544 Sections 312.10.1, 312.10.2, and 312.10.3."

545 Section 9. Section **15A-3-402** is amended to read:

546 **15A-3-402. Amendments to Chapters 1 through 5 of IMC.**

547 (1) In IMC, Table [~~403.3~~] 403.3.1.1, note h is deleted and replaced with the following:

548 "h. 1. A nail salon shall provide each manicure station where a nail technician files or  
549 shapes an acrylic nail, as defined by rule by the Division of Occupational and Professional  
550 Licensing, in accordance with Title 63G, Chapter 3, Utah Administrative Rulemaking Act,  
551 with:

552 a. a source capture system equipped with, at minimum, a MERV 8 particulate filter and  
553 an activated carbon filter that is capable of filtering and recirculating air to inside space at a  
554 rate not less than 50 cfm per station; or

555 b. a source capture system capable of exhausting not less than 50 cfm per station.

556 c. A nail salon that complies with Note h.l.a or h.l.b is not required to comply with the  
557 labeling, listing, or testing requirements described in International Mechanical Code sections  
558 301.7 or 301.8.

559 2. For a source capture system described in paragraph 1, the source capture system  
560 inlets for exhausting or recirculating air shall be located in accordance with Section 502.20.

561 3. Where one or more exhausting source capture systems described in paragraph 1  
562 operate continuously during occupancy, the source capture system exhaust rate shall be  
563 permitted to be applied to the exhaust flow rate required by Table 403.3.1.1 for the nail salon.

564 4. The requirements of this note apply to:

565 a. an existing nail salon that remodels the nail salon after July 1, 2017;

566 b. a new nail salon that begins construction after July 1, 2017; and

567 c. all nail salons beginning on July 1, 2020."

568 (2) In IMC, Section 502.20 is deleted and rewritten as follows:

569 "502.20 Manicure stations. A nail salon that files or shapes an acrylic nail shall provide  
570 each manicure station with a source capture system in accordance with Table 403.3.1.1, note h.  
571 For a manicure table that does not have factory-installed source capture system inlets for  
572 recirculating or exhausting air, a nail salon shall provide the manicure table with inlets for  
573 recirculating or exhausting air located not more than 12 inches (305 mm) horizontally and  
574 vertically from the point of any acrylic chemical application.

575 Exception: Section 502.20 applies to a manicure station in:

576 a. an existing nail salon that remodels the nail salon after July 1, 2017;

577 b. a new nail salon that begins construction after July 1, 2017; and

578 c. all nail salons beginning on July 1, 2020."

579 Section 10. Section **15A-3-801** is amended to read:

580 **15A-3-801. General provisions.**

581 The following are adopted as amendments to the IEBC and are applicable statewide:

582 (1) In Section 202, the following definition is added: "BUILDING OFFICIAL. See  
583 Code Official."

584 (2) In Section 202, the definition for "code official" is deleted and replaced with the  
585 following:

586 "CODE OFFICIAL. The officer or other designated authority having jurisdiction (AHJ)  
587 charged with the administration and enforcement of this code."

588 (3) In Section 202, the definition for existing buildings is deleted and replaced with the  
589 following:

590 "EXISTING BUILDING. A building that is not a dangerous building and that was either  
591 lawfully erected under a prior adopted code, or deemed a legal non-conforming building by the  
592 code official."

593 (4) In Section 301.3, the exception is deleted.

594 (5) In Section 305.4.2, number 7 is added after number 6 as follows: "7. When a  
595 change of occupancy in a building or portion of a building results in a Group R-2 occupancy,  
596 not less than 20% of the dwelling or sleeping units shall be Type-B dwelling or sleeping units.  
597 These dwelling or sleeping units may be located on any floor of the building provided with an  
598 accessible route. Two percent, but not less than one unit, of the dwelling or sleeping units shall  
599 be Type-A dwelling units."

600 [~~5~~] (6) Section 503.6 is deleted and replaced with the following:

601 "503.6 Bracing for unreinforced masonry parapets and other appendages upon reroofing.

602 Where the intended alteration requires a permit for reroofing and involves removal of roofing  
603 materials from more than 25% of the roof area of a building assigned to Seismic Design

604 Category D, E, or F that has parapets constructed of unreinforced masonry or appendages such

605 as cornices, spires, towers, tanks, signs, statuary, etc., the work shall include installation of

606 bracing to resist out-of-plane seismic forces, unless an evaluation demonstrates compliance of  
607 such items. Reduced seismic forces are permitted for design purposes."

608 ~~[(6)]~~ (7) In Section 705.1, Exception number 3, the following is added at the end of the  
609 exception:

610 "This exception does not apply if the existing facility is undergoing a change of occupancy  
611 classification."

612 ~~[(7)]~~ (8) Section 706.3.1 is deleted and replaced with the following:

613 "706.3.1 Bracing for unreinforced masonry bearing wall parapets and other appendages.  
614 Where a permit is issued for reroofing more than 25 percent of the roof area of a building  
615 assigned to Seismic Design Category D, E, or F that has parapets constructed of unreinforced  
616 masonry or appendages such as cornices, spires, towers, tanks, signs, statuary, etc., the work  
617 shall include installation of bracing to resist the reduced International Building Code level  
618 seismic forces as specified in Section 303 of this code unless an evaluation demonstrates  
619 compliance of such items."

620 ~~[(8)]~~ (9) Section 906.6 is deleted and replaced with the following:

621 "906.6 Bracing for unreinforced masonry parapets and other appendages upon  
622 reroofing.

623 Where the intended alteration requires a permit for reroofing and involves removal of  
624 roofing materials from more than 25% of the roof area of a building assigned to Seismic  
625 Design Category D, E, or F that has parapets constructed of unreinforced masonry or  
626 appendages such as cornices, spires, towers, tanks, signs, statuary, etc., the work shall include  
627 installation of bracing to resist out-of-plane seismic forces, unless an evaluation demonstrates  
628 compliance with such items. Reduced seismic forces are permitted for design purposes."

629 ~~[(9)]~~ (10) (a) Section 1006.3 is deleted and replaced with the following:

630 "1006.3 Seismic Loads. Where a change of occupancy results in a building being  
631 assigned to a higher risk category, or when a change of occupancy results in a design occupant  
632 load increase of 100% or more, the building shall satisfy the requirements of Section 1613 of  
633 the International Building Code using full seismic forces."

634 (b) Section 1006.3, exceptions 1 through 3 remain unchanged.

635 (c) In Section 1006.3, add a new exception 4 as follows:

636 "4. Where the design occupant load increase is less than 25 occupants and the occupancy

637 category does not change."

638 ~~[(10)]~~ (11) In Section 1012.7.3, exception 2 is deleted.

639 ~~[(11) In Section 1012.8.2, number 7 is added as follows:]~~

640 ~~["7. When a change of occupancy in a building or portion of a building results in a Group R-2~~  
641 ~~occupancy, not less than 20% of the dwelling or sleeping units shall be Type B dwelling or~~  
642 ~~sleeping units. These dwelling or sleeping units may be located on any floor of the building~~  
643 ~~provided with an accessible route. Two percent, but not less than one unit, of the dwelling or~~  
644 ~~sleeping units shall be Type A dwelling units."]~~

645 Section 11. Section **15A-3-1001** is enacted to read:

646 **Part 10. Statewide Amendments to International Swimming Pool and Spa Code**

647 **15A-3-1001. General provisions.**

648 (1) In ISPSC, Section 202, the following definition is added for private residential  
649 swimming pool: "PRIVATE RESIDENTIAL SWIMMING POOL. A swimming pool, spa  
650 pool, or wading pool used only by an individual, family, or living unit members and guests, but  
651 not serving any type of multiple unit housing complex of four or more living units."

652 (2) In ISPSC, Section 320.1, the following changes are made:

653 (a) the words "or storm" are deleted;

654 (b) the words "onsite waste water" are added before the word "disposal"; and

655 (c) the words "or shall be disposed of by other means approved by the state or local  
656 authority" are deleted.