

**CONSTRUCTION CODE REVISIONS**

2012 GENERAL SESSION

STATE OF UTAH

**Chief Sponsor: Gage Froerer**

Senate Sponsor: J. Stuart Adams

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**LONG TITLE**

**General Description:**

This bill modifies a provision amending the state construction code.

**Highlighted Provisions:**

This bill:

- ▶ modifies a provision requiring an engineer evaluation of certain buildings built before 1975;
- ▶ eliminates a requirement that the evaluation occur when the building is undergoing reroofing or an alteration of or repair to certain features; and
- ▶ replaces that requirement with a requirement that the evaluation occur when the building is undergoing structural alterations or repairs, and specifies what is not included in structural alterations or repairs.

**Money Appropriated in this Bill:**

None

**Other Special Clauses:**

None

**Utah Code Sections Affected:**

AMENDS:

**15A-3-113**, as enacted by Laws of Utah 2011, Chapter 14

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



28 Section 1. Section **15A-3-113** is amended to read:

29 **15A-3-113. Amendments to Chapters 32 through 35 of IBC.**

30 (1) A new section IBC, Section 3401.6, is added as follows: "3401.6 Parapet bracing,  
31 wall anchors, and other appendages. Buildings constructed before 1975 shall have parapet  
32 bracing, wall anchors, and appendages such as cornices, spires, towers, tanks, signs, statuary,  
33 etc. evaluated by a licensed engineer when [~~said~~] the building is undergoing [reroofing, or  
34 alteration of or repair to said feature.] structural alterations or structural repairs. Reroofing or  
35 water membrane replacement may not be considered a structural alteration or repair for  
36 purposes of this section. Such parapet bracing, wall anchors, and appendages shall be  
37 evaluated in accordance with 75% of the seismic forces as specified in Section 1613. When  
38 allowed by the local building official, alternate methods of equivalent strength as referenced in  
39 an approved code under Utah Code, Subsection 15A-1-204(6)(a), will be considered when  
40 accompanied by engineer-sealed drawings, details, and calculations. When found to be  
41 deficient because of design or deteriorated condition, the engineer's recommendations to  
42 anchor, brace, reinforce, or remove the deficient feature shall be implemented.

43 Exceptions:

- 44 1. Group R-3 and U occupancies.
- 45 2. Unreinforced masonry parapets need not be braced according to the above stated provisions  
46 provided that the maximum height of an unreinforced masonry parapet above the level of the  
47 diaphragm tension anchors or above the parapet braces shall not exceed one and one-half times  
48 the thickness of the parapet wall. The parapet height may be a maximum of two and one-half  
49 times its thickness in other than Seismic Design Categories D, E, or F."

50 (2) IBC, Section 3408.4, is deleted and replaced with the following: "3408.4 Change in  
51 Occupancy. When a change in occupancy results in a structure being reclassified to a higher  
52 Occupancy Category (as defined in Table 1604.5), or when such change of occupancy results in  
53 a design occupant load increase of 100% or more, the structure shall conform to the seismic  
54 requirements for a new structure.

55 Exceptions:

- 56 1. Specific seismic detailing requirements of this code or ASCE 7 for a new structure shall not  
57 be required to be met where it can be shown that the level of performance and seismic safety is  
58 equivalent to that of a new structure. Such analysis shall consider the regularity, overstrength,

59 redundancy, and ductility of the structure within the context of the existing and retrofit (if any)  
60 detailing providing. Alternatively, the building official may allow the structure to be upgraded  
61 in accordance with referenced sections as found in an approved code under Utah Code,  
62 Subsection 15A-1-204(6)(a).

63 2. When a change of use results in a structure being reclassified from Occupancy Category I or  
64 II to Occupancy Category III and the structure is located in a seismic map area where SDS is  
65 less than 0.33, compliance with the seismic requirements of this code and ASCE 7 are not  
66 required.

67 3. Where design occupant load increase is less than 25 occupants and the Occupancy Category  
68 does not change."

69 (3) In IBC, Section 3411.1, the exception is deleted and replaced with the following:  
70 "Exception: Type B dwelling or sleeping units required by Section 1107 of this code are not  
71 required to be provided in existing buildings and facilities unless being altered or undergoing a  
72 change of occupancy classification."

73 (4) The following referenced standard is added under NFPA in IBC, Chapter 35:

"Number	Title	Referenced in code section number
720-09	Standard for the Installation of Carbon Monoxide (CO) Detection and Warning Equipment	907.9"

76 (5) The following referenced standard is added under UL in IBC, Chapter 35:

"Number	Title	Referenced in code section number
2034-2008	Standard of Single- and Multiple-station Carbon Monoxide Alarms	907.9"

79 (6) In IBC, Chapter 35, NFPA referenced standard 10-07 is deleted and replaced with  
80 the following:

"Number	Title	Referenced in code section number
10-10	Portable Fire Extinguishers	906.2, 906.3.2, 906.3.4, Table 906.3(1), Table 906.3(2)"

83 (7) In IBC, Chapter 35, NFPA referenced standard 11-05 is deleted and replaced with

84 the following:

85 "Number	Title	Referenced in code section number
86 11-10	Low Expansion Foam	904.7"

87 (8) In IBC, Chapter 35, NFPA referenced standard 12-05 is deleted and replaced with  
88 the following:

89 "Number	Title	Referenced in code section number
90 12-08	Carbon Dioxide Extinguishing Systems	904.8, 904.11"

91 (9) In IBC, Chapter 35, NFPA referenced standard 12A-04 is deleted and replaced with  
92 the following:

93 "Number	Title	Referenced in code section number
94 12A-09	Halon 1301 Fire Extinguishing Systems	904.9"

95 (10) In IBC, Chapter 35, NFPA referenced standard 13-07 is deleted and replaced with  
96 the following:

97 "Number	Title	Referenced in code section number
98 13-10	Installation of Sprinkler Systems	708.2, 903.3.1.1, 903.3.2, 903.3.5.1.1, 903.3.5.3, 904.11, 905.3.4, 907.6.3, 1613.3"

99 (11) In IBC, Chapter 35, NFPA referenced standard 13D-07 is deleted and replaced  
100 with the following:

101 "Number	Title	Referenced in code section number
102 13D-10	Installation of Sprinkler Systems in One- and Two-family Dwellings and Manufactured Homes	903.3.1.3, 903.3.5.1.1"

103 (12) In IBC, Chapter 35, NFPA referenced standard 13R-07 is deleted and replaced  
104 with the following:

105 "Number	Title	Referenced in code section number
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13R-10	Installation of Sprinkler Systems in Residential Occupancies Up to and Including Four Stories in Height	903.3.1.2, 903.3.5.1.1, 903.3.5.1.2, 903.4"
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107 (13) In IBC, Chapter 35, NFPA referenced standard 14-07 is deleted and replaced with  
 108 the following:

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"Number	Title	Referenced in code section number
14-10	Installation of Standpipe and Hose System	905.2, 905.3.4, 905.6.2, 905.8"

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111 (14) In IBC, Chapter 35, NFPA referenced standard 17-02 is deleted and replaced with  
 112 the following:

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"Number	Title	Referenced in code section number
17-09	Dry chemical Extinguishing Systems	904.5, 904.11"

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115 (15) In IBC, Chapter 35, NFPA referenced standard 17A-02 is deleted and replaced  
 116 with the following:

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"Number	Title	Referenced in code section number
17A-09	Wet Chemical Extinguishing System	904.5, 904.11"

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119 (16) In IBC, Chapter 35, NFPA referenced standard 20-07 is deleted and replaced with  
 120 the following:

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"Number	Title	Referenced in code section number
20-10	Installation of Stationary Pumps for Fire Protection	913.1, 913.2.1, 913.5"

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123 (17) In IBC, Chapter 35, NFPA referenced standard 72-07 is deleted and replaced with  
 124 the following:

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"Number	Title	Referenced in code section number
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126	72-10	National Fire Alarm Code	901.6, 903.4.1, 904.3.5, 907.2, 907.2.5, 907.2.11, 907.2.13.2, 907.3, 907.3.3, 907.3.4, 907.5.2.1.2, 907.5.3.3, 907.6, 907.6.1, 907.6.5, 907.7, 907.7.1, 907.7.2, 911.1.5, 3006.5, 3007.6"
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127 (18) In IBC, Chapter 35, NFPA referenced standard 92B-05 is deleted and replaced  
 128 with the following:

129	"Number	Title	Referenced in code section number
130	92B-09	Smoke Management Systems in Malls, Atria and Large Spaces	909.8"

131 (19) In IBC, Chapter 35, NFPA referenced standard 101-06 is deleted and replaced  
 132 with the following:

133	"Number	Title	Referenced in code section number
134	101-09	Line Safety Code	1028.6.2"

135 (20) In IBC, Chapter 35, NFPA referenced standard 110-05 is deleted and replaced  
 136 with the following:

137	"Number	Title	Referenced in code section number
138	110-10	Emergency and Standby Power Systems	2702.1"

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**Legislative Review Note**  
 as of **1-26-12 6:08 AM**

**Office of Legislative Research and General Counsel**