Needed change to S6210:

Paul Coats, PE, CBO
American Wood Council
803-980-7304
pcoats@awc.org

The change as originally submitted by Eric Stafford:

R301.3 Story height. The wind and seismic provisions of this code shall apply to buildings with story heights not exceeding the following:

1. For wood wall framing, the laterally unsupported bearing wall stud height permitted by Section R602 ~~Table R602.3(5)~~ plus a height of floor framing not to exceed 16 inches (406 mm).

Exception: For wood-framed wall buildings with bracing in accordance with Section R602 ~~Table R602.10.3(1) and R602.10.3(3)~~, the wall stud clear height used to determine the maximum permitted *story height* may be increased to 12 feet (3658 mm) without requiring an engineered design for the building wind and seismic force-resisting systems provided that the length of bracing required by Section R602 ~~Table R602.10.3(1)~~ is increased by multiplying by a factor of ~~1.10 and the length of bracing required by Table R602.10.3(3) is increased by multiplying by a factor of~~ 1.20. Wall studs are still subject to the requirements of this section.

(no change to remainder)

Rationale: Corrects section references. Most of Section R602 in the base code has been deleted.

Suggested modification:

Delete the entire exception to the section, as follows:

R301.3 Story height. The wind and seismic provisions of this code shall apply to buildings with story heights not exceeding the following:

1. For wood wall framing, the laterally unsupported bearing wall stud height permitted by Section R602 ~~Table R602.3(5)~~ plus a height of floor framing not to exceed 16 inches (406 mm).

~~**Exception:** For wood-framed wall buildings with bracing in accordance with Table R602.10.3(1) and R602.10.3(3), the wall stud clear height used to determine the~~

~~maximum permitted *story height* may be increased to 12 feet (3658 mm) without requiring an engineered design for the building wind and seismic force-resisting systems provided that the length of bracing required by Table R602.10.3(1) is increased by multiplying by a factor of 1.10 and the length of bracing required by Table R602.10.3(3) is increased by multiplying by a factor of 1.20. Wall studs are still subject to the requirements of this section.~~

(no change to remainder)

Reason: The original glitch modification S6210 retains a 1.2 factor for bracing length. However, the current 1.2 factor applies to the prescriptive bracing in the IRC, which has been deleted. The factor is not intended for use with the Wood Frame Construction Manual (WFCM) or other design standards listed in R602 which this section now references. If the 1.2 factor remains, it could be interpreted that the factor should be applied to wall bracing lengths in the WFCM and other design standards, which is incorrect. In fact the entire exception should be deleted, since wall heights are determined by the referenced design standards in R602. This was apparently overlooked by the TAC due to the volume of similar changes cleaning up references to Section R602. I spoke with the proponent of the change, Eric Stafford, and he is in agreement.

Date Submitted	4/23/2013	**Section**	301.3	**Proponent**	T Stafford
Chapter	3	**Affects HVHZ**	No	**Attachments**	No

TAC Recommendation Approved as Submitted
Commission Action Pending Review

Related Modifications

Summary of Modification

Corrects section references.

Rationale

Corrects section references. Most of Section R602 in the base code has been deleted.

Fiscal Impact Statement

Impact to local entity relative to enforcement of code

No impcat to local entities.

Impact to building and property owners relative to cost of compliance with code

No impact to building and property owners.

Impact to industry relative to the cost of compliance with code

No impact to industry.

Requirements

Has a reasonable and substantial connection with the health, safety, and welfare of the general public

Corrects a onflict within the updated code.

Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction

Corrects a onflict within the updated code.

Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities

Corrects a onflict within the updated code.

Does not degrade the effectiveness of the code

Corrects a onflict within the updated code.

Is the proposed code modification part of a prior code version? No

- [X] (a.) Conflicts within the updated code;
- [ ] (b.) Conflicts between the updated code and the Florida Fire Prevention Code adopted pursuant to chapter 633;
- [ ] (c.) Unintended results from the integration of previously adopted Florida-specific amendments with the model code;
- [ ] (d.) Equivalency of standards;
- [ ] (e.) Changes to or inconsistencies with federal or state law;
- [ ] (f.) Adoption of an updated edition of the National Electrical Code if the commission finds that delay of implementing the updated edition causes undue hardship to stakeholders or otherwise threatens the public health, safety, and welfare.

R301.3 Story height. The wind and seismic provisions of this code shall apply to buildings with story heights not exceeding the following:

1. For wood wall framing, the laterally unsupported bearingwall stud height permitted by Section R602 ~~Table R602.3(5)~~ plus a height of floor framing not to exceed 16 inches (406mm).

Exception: For wood-framed wall buildings with bracing in accordance with Section R602 ~~Tables R602.10.3(1) andR602.10.3(3)~~, the wall stud clear height used todetermine the maximum permitted *story height* maybe increased to 12 feet (3658 mm) without requiring an engineered design for the building wind and seismic force-resisting systems provided that the length of bracing required by Section R602 ~~Table R602.10.3(1)~~ is increased by multiplying by a factor of ~~1.10 and the~~

~~length of bracing required by Table R602.10.3(3) is increased by multiplying by a factor of~~ 1.20. Wallstuds are still subject to the requirements of this section.

(no change to remainder)