



PUBLIC CODE CHANGE PROPOSAL FORM FOR PUBLIC PROPOSALS IN THE INTERNATIONAL CODES

2009/2010 CODE DEVELOPMENT CYCLE

CLOSING DATE: All Proposals Must Be Received by June 1, 2009

The 2009/2010 Code Development Hearings are tentatively scheduled for
October 24-November 11, 2009, Baltimore, MD.

1)

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Jurisdiction/Company: Qualtim, Inc			
Submitted on Behalf of: Structural Building Components Association (SBCA)			
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2) **Copyright Release:** In accordance with Council Policy #28 Code Development, all Code Change Proposals, Floor Modifications and Public Comments are required to include a copyright release. A copy of the copyright release form is included at the end of this form. Please follow the directions on the form. This form as well as an alternative release form can also be downloaded from the ICC website at www.iccsafe.org. If you have previously executed the copyright release for this cycle, please check the box below:

2009/2010 Cycle copyright release on file

3) Indicate appropriate International Code(s) associated with this Public Proposal – Please use Acronym: IRC

If you have also submitted a separate coordination change to another I-Code, please indicate the code:
(See section below for list of names and acronyms for the International Codes).

4) **Be sure to format your proposal and include all information as indicated below and in the Code Change Proposal Instructions’ section on Page 2 of this form.**

5) Proposals should be sent to the following offices via regular mail or email. An e-mail submittal is preferred, including an electronic version, in either WordPerfect or Word. The only formatting that is needed is **BOLDING, STRIKEOUT AND UNDERLINING**. Please do not provide additional formatting such as tabs, columns, etc., as this will be done by ICC. **REMOVE TRACKING CHANGES, AUTOMATIC NUMBERING, OR ANY OTHER ADVANCED FORMATTING TOOLS THAT ARE PROVIDED BY WORD, FROM FILES CONTAINING YOUR CODE CHANGE PROPOSAL THAT YOU SEND TO ICC.**

Please use a separate form (see page 3) for each proposal submitted. Note: All code changes received will receive an acknowledgment by approximately May 15, 2009. Please contact the ICC staff listed below if you do not receive an acknowledgment by May 15, 2009.

Please check here if separate graphic file provided. Graphic materials (Graphs, maps, drawings, charts, photographs, etc.) must be submitted as separate electronic files in .CDR, IA, TIF or .JPG format (300 DPI Minimum resolution; 600 DPI or more preferred) even though they may also be embedded in your Word or WordPerfect submittal.

- Code**
- IBC - International Building Code
 - IEBC - International Existing Building Code
 - IFC - International Fire Code
 - IFGC - International Fuel Gas Code
 - ICC PC - ICC Performance Code
 - IPC - International Plumbing Code
 - IPSDC - International Private Sewage Disposal Code
 - IPMC - International Property Maintenance Code
 - IWUIC - International Wildland-Urban Interface Code
 - IZC - International Zoning Code

Send to:
International Code Council
Chicago District Office
Attn: Diane Schoonover
4051 West Flossmoor Road
Country Club Hills, IL 60478-5795
Fax: 708/799-0320
codechanges@iccsafe.org

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- IECC - International Energy Conservation Code
 - IMC - International Mechanical Code
 - IRC - International Residential Code

International Code Council
Birmingham District Office
Attn: Annette Sundberg
900 Montclair Road
Birmingham, AL 35213-1206
Fax: 205/592-7001
codechangesbhm@iccsafe.org

CODE CHANGE PROPOSAL FORM

(See instructions on page 2)

Code: IRC –09/10

R802.10.5, R802.11.1, Table R802.11

Proponent: *Larry Wainright, Qualtim, Inc, representing the Structural Building Components Association*

1. Delete Section 802.10.5 in its entirety

~~**R802.10.5 Truss to wall connection.** Trusses shall be connected to wall plates by the use of *approved* connectors having a resistance to uplift of not less than 175 pounds (779 N) and shall be installed in accordance with the manufacturer's specifications. For roof assemblies subject to wind uplift pressures of 20 pounds per square foot (960 Pa) or greater, as established in Table R301.2(2), adjusted for height and exposure per Table R301.2(3), see section R802.11.~~

2. Modify Section R802.11.1 and as follows:

~~**R802.11.1 Uplift resistance.** Roof assemblies which are subject to wind uplift pressures of 20 pounds per square foot (960 Pa) or greater shall have roof rafters or trusses attached to their supporting wall assemblies by connections capable of providing the resistance required in Table R802.11. Wind uplift pressures shall be determined using an effective wind area of 100 square feet (9.3 m²) and Zone 1 in Table R301.2(2), as adjusted for height and exposure per Table R301.2(3).~~

~~A continuous load path shall be designed to transmit the uplift forces from the rafters or trusses to the foundation.~~

Connections to resist uplift forces on trusses and rafters shall be designed in accordance with sections R802.11.1.2 and R802.11.1.3. Where the uplift force does not exceed 200 pounds, rafters and trusses shall be permitted to be attached to their supporting wall assemblies in accordance with Table R602.3(1). Where the basic wind speed does not exceed 90 mph (40 m/s), the wind exposure category is B, the roof pitch is 5:12 or greater, and the roof span is 32 feet (9754 mm) or less, rafters and trusses shall be permitted to be attached to their supporting wall assemblies in accordance with Table R602.3(1).

R802.11.1.2 Truss uplift resistance. Trusses shall be attached to supporting wall assemblies by connections capable of resisting uplift forces as specified on the Truss Design Drawings. Uplift forces shall be permitted to be determined as specified by Table R802.11, if applicable, or as determined by accepted engineering practice.

R802.11.1.3 Rafter uplift resistance. Individual rafters shall be attached to supporting wall assemblies by connections capable of resisting uplift forces as determined by Table R802.11 or as specified by accepted engineering practice. Connections for beams used in a roof system shall be designed in accordance with the uplift forces as determined by accepted engineering practice

For wall framing connections to resist uplift load, refer to Section R602.10.2.1, Table 602.3(1), the American Forest and Paper Association (AF&PA) *Wood Frame Construction Manual (WFCM)*, or as determined by accepted engineering practice .

Reason:

The general requirement of Section **R801.2** states:

“...Roof and ceiling construction shall be capable of accommodating all loads imposed according to Section R301 and of transmitting the resulting loads to the supporting structural elements.”

Chapter 6, wall construction, provides the requirements for connecting wall top plates to roof framing in Table 602.3(1) and with the addition of Section 602.10.1.2.1, braced wall panel uplift load path, during the last code cycle, the continuous load path language in R802.11 is redundant. Further, Section R602.10.1.2.1 establishes the connection in Table R602.3(1) as good for 100 plf.

R602.10.1.2.1 Braced wall panel uplift load path. *Braced wall panels* located at exterior walls that support roof rafters or trusses (including stories below top *story*) shall have the framing members connected in accordance with one of the following:

1. Fastening in accordance with Table R602.3(1) where:

1.1. The basic wind speed does not exceed 90 mph (40 m/s), the wind exposure category is B, the roof pitch is 5:12 or greater, and the roof span is 32 feet (9754 mm) or less, or

1.2. The net uplift value at the top of a wall does not exceed 100 plf. The net uplift value shall be determined in accordance with Section R802.11 and shall be permitted to be reduced by 60 plf (86 N/mm) for each full wall above.

2. Where the net uplift value at the top of a wall exceeds 100 plf (146 N/mm), installing *approved* uplift framing connectors to provide a continuous load path from the top of the wall to the foundation. The net uplift value shall be as determined in Item 1.2 above.

3. Bracing and fasteners designed in accordance with accepted engineering practice to resist combined uplift and shear forces.

This is in conflict with R802.10.5 which states:

R802.10.5 Truss to wall connection. Trusses shall be connected to wall plates by the use of *approved* connectors having a resistance to uplift of not less than 175 pounds (779 N) and shall be installed in accordance with the manufacturer's specifications. For roof assemblies subject to wind uplift pressures of 20 pounds per square foot (960 Pa) or greater, as established in Table R301.2(2), adjusted for height and exposure per Table R301.2(3), see section R802.11.

This proposal accomplishes the following things.

1. It replaces the continuous load path requirement in R802.11.1 with a pointer back to the more detailed requirements of R602.10.2.1
2. It deletes Section R802.10.5, which has truss to wall connection requirements that are in conflict with R602.10.2.1
3. Coordinates the 100 plf trigger found in R602.10.1.2.1 with the rafter and truss connections in R802.11.

Cost impact: This proposal will not increase the cost of construction.

Reason:

Cost Impact:

Public Hearing:	Committee:	AS	AM	D
	Assembly:	ASF	AMF	DF



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