



ICC CODES - PUBLIC COMMENT FORM

FOR PUBLIC COMMENTS ON THE 2013 REPORT
OF THE PUBLIC HEARINGS ON THE 2012 EDITIONS OF:

- Administrative Provisions*® (ADM)
- International Energy Conservation Code*®
 - Commercial Energy (CE)
 - Residential Energy (RE)
- International Existing Building Code*® (EB)
- International Fire Code*® (F)
- ICC Performance Code*® (PC)
- International Residential Code*®
 - Building (RB)
 - Mechanical (RM)
 - Plumbing (RP)
- International Property Maintenance Code*® (PM)
- International Swimming Pool and Spa Code*® (SP)
- International Wildland-Urban Interface Code*® (WUIC)

CLOSING DATE: All Comments Must Be Received by: July 15, 2013

1) Please type or print clearly: Public comments will be returned if they contain unreadable information.

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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, please check the box below:

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3) Code Change Proposal Number:

Indicate the Code Change Proposal Number that is being addressed by this Public Comment: _____

4) Public Comment: The Final Action requested on this Code Change Proposal is: (Check Box)

<input type="checkbox"/> Approved as Submitted (AS):	<input checked="" type="checkbox"/> Approved as Modified by this Public Comment (AMPC):	<input type="checkbox"/> Approved as Modified by the Code Committee as Published in the ROH (AM):	<input type="checkbox"/> Approved as Modified by Assembly Floor Action as Published in the ROH (AMF):	<input type="checkbox"/> Disapproved (D):
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Attached Proposed Modifications and/or Reason Statements:

See Attached Individual Consideration Form

**PLEASE USE SEPARATE FORM FOR EACH PUBLIC COMMENT
SUBMITTAL AS A DOCUMENT ATTACHED TO AN EMAIL IS PREFERRED
SEE BACK OF FORM FOR DIRECTIONS ON WHERE TO SEND PUBLIC COMMENTS**

INDIVIDUAL CONSIDERATION FORM

RB308-13

R602.10.4.4 (New), Table R602.10.4.4 (New)

Individual Consideration Agenda

This item is on the agenda for individual consideration because a public comment was submitted.

Public Comment:

Name: Larry Wainright, representing the Structural Building Components Association

Modify the proposal as follows:

R602.10.4.4 Design Values. For the purpose of braced wall design, the capacity of wood structural panels to resist lateral loads, as found in Table R 602.10.3(1) are found in Table R602.10.4.4.

**TABLE R602.10.4.4
SIMPLIFIED SHEAR VALUES FOR WIND LOADING OF BRACED WALL LINES**

Sheathing Material	Bottom plate connection to foundation	Fastener	Fastener Spacing	Any Species Stud Framing		
				Tested capacity	System Effects Factor	IRC Lateral Design Capacity
3/8", 7/16" or 15/32" WSP @16" and 24" o.c framing – Wind.	Anchor bolts per code requirements	6d (2" x 0.113" nails) or 8d (2 1/2 x 0.131"	6:12	335 <u>350</u>	1.8 0	600
3/8", 7/16" or 15/32" WSP @16" and 24" o.c framing (with 1/2" gypsum on interior face of wall. — Wind	Anchor bolts per code requirements	6d (2" x 0.113") or 8d (2 1/2 x 0.131" nails and Types S or W drywall screws.	6:12 WSP & 16:16 for GWB	465 <u>450</u>	1.8 0	840
1. The lateral design capacity of braced wall panels is based on full scale wall assembly tests using the minimum restraint provisions of the IRC, further adjusted by the partial restraint/systems effect factor.						

Commenter's Reason:

In addition to the original reason statements provided in RB308 and RB309 the following should be considered:

SBCRI has completed additional testing and as a result, proposes the modifications shown above. The proposed 350 plf for wood structural panels (WSP's) installed without gypsum is the tested capacity of WSP's in full scale tests as well as in 23' wall assemblies when built to the minimum requirements of the IRC. The stated System Effects factor is simply a factor used to convert the tested capacities to the capacity currently in use in the IRC. It is recognized that the systems effect factor does not exactly result in the stated IRC capacity. The calculated value is rounded to the capacity currently in use. This proposal does not seek to modify what is currently in use. (i.e. the tested capacity, 350 plf times the systems effect factor of 1.8 equals 630 plf. This was rounded down to the 600 plf currently in use.)

When the Ad-Hoc Wall Bracing Committee (AHWBC) first developed these provisions, they did the best that they could, given the testing that was available at the time. Most of the testing that was available came from testing of fully restrained walls. This testing formed the basis of the committees work and judgments were made with regard to the partial restraint of buildings constructed to the IRC as well as the systems effects of completed construction. The table able does not change any of that work, but simply restates the basis of the design capacities using the capacities from tests of buildings constructed in accordance with the minimum IRC and then applying the factor necessary to get back to the current IRC design values.

With regard to the addition of gypsum to braced wall panels: The Ad-Hoc Wall bracing committee used 200 plf as the capacity of the gypsum added to the back side of the braced wall panel. The 200 plf capacity is predicated on the use of nailing at 7" o.c. at the edges of the panel and in the field. **Additionally, the gypsum must be installed vertically (See Table R602.3 (1), Line 37 and footnote "d").** This orientation and fastening pattern is rarely accomplished in the field. The more common fastening is in accordance with the interior coverings section (R702.3.5) which allows both horizontal and vertical applications and screw spacing at 16" o.c. SBCRI tested both of these conditions. The 200 plf capacity of the gypsum is confirmed when installed per the AHWBC assumptions, but only achieves 100 plf when installed with 16:16 screws.

The IRC-Building Committee's stated two reasons for disapproving RB309 follow. First, the proposal was not limited to wind as stated in testimony. While the limitation was stated in the table, the revision above moves the wind limitation to the title of the table to be clearer as to the application. Second, they stated that design values do not belong in a prescriptive code. However, there are often parts of a building that do not comply with the IRC

and that must be designed. Currently, the only direction a building designer has to obtain design values to use engineering based reference documents such as SDPWS which provide design capacities based on fully restrained conditions. This proposal simply gives the building designer an accurate assessment of the design capacities currently provided for in the IRC using the minimum IRC construction as the basis of the capacity.



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