



ICC AD HOC COMMITTEE ON WALL BRACING MEETING #1

DRAFT MEETING MINUTES

August 22 – 24, 2006
Renaissance St. Louis Airport
9801 Natural Bridge Road
St. Louis, MO 63134
314-429-1100

Tuesday, August 22: 8:00 a.m. – 5:00 p.m. (or later if needed)
Wednesday, August 23: 8:00 a.m. - 5:00 p.m. (or later if needed)
Thursday, August 24: 8:00 a.m. – 3:00 p.m.

1.0 Welcome and introductions - Staff

1.1 Call to order

As this was the first meeting of the committee, Mike Pfeiffer (staff liaison) called the meeting to order at 8:00 am Tuesday, August 22nd.

1.2 Introduction of committee/attendees

Self introductions of the committee and attendees were made.

Members present: Chuck Bajnai, Jay Crandell, Dan Dolan, Brad Douglas, Vic Finch, Brian Foley, Brian Juedes, Ed Keith, Dan Kelsey, Vladimir Kochkin, Bonnie Manley, George Martin, Amos Morris, Jr., Randy Shackelford, Steve Thompson

Members absent: None

Staff liaison: Mike Pfeiffer

Attendees: A list of attendees is provided at the end of these minutes.

1.3 Welcoming remarks

Mike welcomed the members of the committee and the attendees, identifying the scope of the effort dealing with Section R602.10 of the IRC and the concerns over confusing language and enforcement issues. The committee members followed by identifying concerns/issues:

- Need clear/concise prescriptive provisions
- Current text yields inconsistent enforcement due to interpretive issues
- Need user-friendly provisions for contractor use
- The basis for the current provisions is not well known, resulting in difficulty in approving alternative engineered designs as the base-line is not readily apparent.

2.0 Approve agenda

Approved. The committee discussed items 3, 5, 6 and 7 together as a general discussion

followed by item 4.

3.0 General discussion of ad hoc charge

3.1 Scope

3.2 Identification of related issues, if any

The committee held a general discussion of the effort, related activities (item 7 below), possible outcomes and how best to proceed. Among the discussion points:

- Two types of approach can be employed: modify current text or take an entire clean sheet approach.
- Dan Dolan's IRC sheathing task group identified 3 major issues:
 - % sheathing for sheathing materials other than wood
 - Credit for framing/sheathing perpendicular to the load
 - How best to handle dissimilar materials in the same braced wall line and the effect of different stiffness's
- Break IRC section out into high wind versus seismic or keep them together?
- 06/07 code changes will address some of the problems with the current language but there are still other provisions that are in need of review and revision
- Specific percentages in the code (such as 65% and 85%) are not user friendly. Preferred text is to provide length of bracing and where to place the bracing
- Current work load – Fix the IRC
- Future work load – Enhance provisions; provide new concepts
- IRC is not intended to provide prescriptive solutions for 20, 000 sq. foot “McMansions”
- Specific issues/concerns with current text identified:
 1. What to do with deeper joists
 2. Bracing offsets
 3. Diaphragms & sub-diaphragms for other than rectangular configurations and how to measure aspect ratios
 4. Load transfer through plate steps
 5. Method 5 where the gypsum is discontinuous
 6. Roof and floor truss connections
 7. Out-of plane loading issues

4.0 Elect Chair/Vice Chair

Chair: Chuck Bajnai

Vice Chair: Dan Kelsey

5.0 Develop Goals and Objectives

See item 3.

6.0 Develop Work Plan

See item 3.

7.0 Discussion of other bracing related activities

7.1 The IRC Sheathing Ad Hoc Task Group chaired by Dan Dolan

7.2 Others?

See item 3.

8.0 Review of 2006/2007 Cycle bracing related code changes (posted)

The committee went over each of the code changes that were posted and took a position. They are summarized at the end of these minutes.

During the discussions, it was noted that the two changes dealing with the reformatting (TB 179 and RB 180) have the most impact on the enforcement community (the “end users”) and as such the regulators on the committee should weigh in with their opinion as to which they prefer. They viewed RB 179 more favorably. It was further noted that the proposed changes to reformat the text should be reviewed after the Orlando hearings based on the action taken on all of the wall bracing changes in order to make sure that no holes/conflicting provisions result from the combined reformatting and approved code changes.

There was general discussion on exactly what constitutes the braced wall line and how do things such as offsets and diaphragms impact the determination. Is an interior wall treated differently than an exterior wall? What about a “bump out” and the size and/or aspect ratio of the bump out?

There was considerable discussion on RB 214 (APA proponent) and RB 216 (Simpson Strong-tie proponent). The discussion focused on the repeatability and reproducibility of results of tests performed and the role the assumed boundary condition plays on the results. The proponents agreed to request disapproval of the changes at the Orlando hearings in order for the ad hoc committee to comprehensively study the issue.

9.0 2006 ICC Code Development Hearings in Orlando

For the IRC hearings in Orlando, at the first bracing code change, Chair Bajnai will inform the code change committee about the ad hoc committees efforts, its charge and how the results of the ad hoc committee will be conveyed to the code change committee at the hearings.

10.0 New business

None

11.0 Future Meetings

The next meeting of the committee was tentatively set for December 5 - 6 and the committee suggested Denver. Staff will investigate. The tentative agenda will be the review of the 2006 hearing results, develop public comments and work on an action plan/review of current IRC provisions in need of clarification/revision.

12.0 Adjourn

Chair Bajnai adjourned the meeting at 3:00 pm on Thursday, August 24th.

Website: <http://www.iccsafe.org/cs/cc/ahc-wb/index.html>

**Ad Hoc on Wall Bracing- Meeting #1, August 22-24, 2006
Committee Position on 06/07 Bracing Proposed Changes**

Code Change Number	Committee Position	Comments	Committee Member
RB 179	Support		
RB 180	Oppose	In favor RB 179	
RB 181	Support with modifications		
RB 182	Oppose		
RB 183	Oppose		
RB 184	Oppose		
RB 185	Oppose		
RB 186	Oppose		
RB 187	Support with modifications		
RB 188	Oppose		
RB 189	Oppose		
RB 190	Oppose		
RB 191	Oppose		
RB 192	Support		
RB 193	Oppose	In favor of S72	
RB 194	Oppose		
RB 195	Oppose		
RB 196	Support with modifications		
RB 197	Support with modifications		
RB 198	Support		
RB 199	Oppose		
RB 200	Support with modifications		
RB 201	Support		
RB 202	Oppose		
RB 203	Oppose		
RB 204	Support		
RB 205	Support		
RB 206	Oppose		
RB 207	Support		
RB 208	Oppose		
RB 209	Support with modifications	Request to be heard before RB 202, 203, 206, 208, 210, 215	
RB 210	Oppose		
RB 211	Support		
RB 212	Oppose		
RB 213	Support		
RB 214	Oppose	Proponent will request "D" and allow AHWB to further evaluate	
RB 215	Oppose		
RB 216	Oppose	Proponent will request "D" and allow AHWB to further evaluate	
RB 217	Support with modifications		
RB 218	Oppose		
RB 219	Support with modifications		
RB 220	Support		
RB 221	Oppose		
RB 222	Oppose		

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Committee Position on 06/07 Bracing Proposed Changes			
RB 223	Support with modifications		
RB 224	Oppose		
RB 225	Support with modifications		
RB 226	Oppose		
RB 227	Support		
RB 228	Oppose		
RB 229	Oppose		
RB 230	Oppose		
RB 231	Support		
RB 232	Oppose		
RB 233	Oppose		
RB 234	Oppose		
RB 235	Support		
RB 236	Support		
RB 237	Oppose		
Other Bracing Changes			
S72	Support		
RB163	No position	Beyond AHWB scope	
RB164	Support with modifications		
RB169	Support with modifications		

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List of Attendees

Steve Pryor	Simpson Strong-Tie
John Haluska	Norboard
Louis Wagner	AFA
Bob Boyer	International Bildrite
Gary Ehrlich	NAHB
Paul Lautrup	Covalence Coated Products
Ed Chan	Covalence Coated Products
Greg Bergtold	Dow Chemical
Dennis Pitts	AF & PA
Vince Ellebracht	APA
Mark Halverson	APA
B.J. Yen	APA
Zeno Martin	APA
Shane Vilasineekul	Simpson Strong-Tie