

Hurricane Research Advisory Committee

REPORT TO THE FLORIDA BUILDING COMMISSION

APRIL 4, 2011—MEETING XIX

TAMPA, FLORIDA

FACILITATION, MEETING AND PROCESS DESIGN BY



CONSENSUS CENTER

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FLORIDA BUILDING COMMISSION



OVERVIEW AND PROJECT SCOPE

At the January 26, 2005 Commission meeting, Chairman Raul L. Rodriguez, AIA appointed a small coordinating group consisting of Commissioners and other stakeholder representatives, charged with identifying what research is being conducted related to building failure issues resulting from the 2004 hurricanes, identifying any research gaps on key issues identified but not being researched, and finally, to ensure that the Commission is provided with all relevant research findings on each of the major issues, prior to the Commission considering code enhancements resulting from lessons learned.

The Hurricane Research Advisory Committee (HRAC) meets on an ongoing basis for the purpose of receiving updates on current research initiatives, providing recommendations on needed research projects and funding for same, and providing recommendations regarding proposed code amendments relevant to hurricane and storm protection enhancements.

Raul L. Rodriguez, AIA, Chair of the Florida Building Commission, made the following appointments to the Hurricane Research Advisory Council. Members are charged with representing their stakeholder group's interests, and working with other interest groups to develop a consensus package of recommendations for submittal to the Florida Building Commission.

MEMBERS AND REPRESENTATION

Raul L. Rodriguez, AIA, Chair

Chris Schulte

Do Kim, P.E.

Jim Schock, CBO, PE

Jaime Gascon, PE

Craig Parrino, P.E.

Tim Reinhold, PhD, P.E.

Joe Crum, CBO (President, BOAF)

Jack Glenn, CBO

Pending New Appointment

John Ingargiola

Richard Reynolds

Architects

Roofing contractors

Insurance industry

Building officials

Local government

Product manufacturers (concrete products)

Insurance industry/Researchers

Building officials

Home builders

Product manufacturers

Federal government (FEMA)

Insurance Industry

REPORT OF THE APRIL 4, 2011 MEETING

OPENING AND MEETING ATTENDANCE

Jeff Blair, Commission Facilitator, welcomed participants and opened the meeting at 9:00 AM.

The following Committee members were present:

Joe Crum (Bob Boyer alternate), Jaime Gascon, Jack Glenn, Do Kim, Craig Parrino, Jim Schock, and Chris Schulte.

Members Absent

Raul L. Rodriguez, AIA, Chair, John Ingargiola, Richard Reynolds, and Tim Reinhold.

DCA Staff Present

Rick Dixon, Mo Madani, and Jim Richmond.

Meeting Facilitation

The meeting was facilitated by Jeff Blair from the FCRC Consensus Center at Florida State University. Information at: <http://consensus.fsu.edu/>



PROJECT WEBPAGE

Information on the project, including agenda packets, meeting reports, and related documents may be found in downloadable formats at the project webpage below:

<http://consensus.fsu.edu/FBC/hrac.html>

AGENDA REVIEW AND APPROVAL

The Committee voted unanimously, 7 - 0 in favor, to approve the agenda as presented including the following objectives:

- To Approve Regular Procedural Topics (Agenda and Summary Report)
- To Review Current Research Project Updates and Results
- To Discuss Self-Adhering Underlayment for Tile Roof Systems
- To Discuss Additional Research Supporting Hurricane Resistant Construction Standards Development
- To Consider Public Comment
- To Identify Needed Next Steps, Assignments and Agenda Items for Next Meeting

JUNE 7, 2010 FACILITATOR'S SUMMARY REPORT REVIEW AND APPROVAL

Jeff Blair, Commission Facilitator, asked if any members had corrections or additions to the June 7, 2010 Report, and none were offered. The Committee voted unanimously, 7 - 0 in favor, to approve the June 7, 2010 Facilitator's Summary Report as presented.

PRESENTATION ON FISCAL YEAR 2010-2011 HURRICANE RESISTANCE RESEARCH

Forrest Masters and David Prevatt from the University of Florida provided a PowerPoint presentation update on hurricane resistance research and answered members' questions. UF reported that the research is organized according to five (5) Tasks as follows:

Task	Description
Task 1	Survey and investigation of buildings damaged by Category III hurricanes between July 1 2010 and June 30, 2011.
Task 2	Investigate the performance of vegetative roof systems appropriate to Florida building for performance in hurricane wind and rain conditions.
Task 3	Tile frangibility and puncture of residential building envelope.
Task 4	Residential roof covering investigation of wind resistance of asphalt shingles. (SERRI)
Task 5	Investigation of structural performance of residential soffit systems

An overview and details of the five UF research tasks may be reviewed at the project webpage as follows:

<http://consensus.fsu.edu/FBC/hrac.html>

DISCUSSION ON SELF-ADHERING UNDERLAYMENT FOR TILE ROOF SYSTEMS

Rick Dixon, FBC Executive Director, reported that the Palm Beach County Building Code Advisory Board (BCAB) sent a letter to the Commission/DCA regarding uplift resistance and limitations of use for self-adhering underlayment in adhesive or mortar applied tile roofing systems. The BCAB urged the establishment of appropriate testing and limitations of use for the uplift values of self-adhering underlayment's especially related to use with clay tile roofing systems. They expressed further concern on the basis that products receiving State-wide product approval preclude local jurisdictions from requiring further testing or evaluation if used consistent with the conditions of the product's approval.

Rick reported that a response was issued to the BCAB reporting that Commission staff are looking into the issue and will submit it to the Florida Building Commission's appropriate technical committees for review. Rick indicated that the Commission's review will be deliberative and it will establish near term and if warranted long range plans to resolve concerns with these products. He invited participation of BCAB representatives and promised to maintain contact with Board staff to advise when and how parties can get involved.

DISCUSSION ON FOLLOW-UP RESEARCH SUPPORTING HURRICANE RESISTANT CONSTRUCTION STANDARDS DEVELOPMENT

Soffit Test Standard Development

Continued Funding of Roof System Testing Projects

Rick Dixon reported on follow-up research supporting hurricane resistant construction standards development and answered members' questions. Rick reported that current Fiscal Year (FY 2010/2011) research projects focus on roof system testing projects and soffit system test standard development. Rick reminded members that the Commission previously voted to support DCA funding research projects that leverage the funding of other agencies for projects that support resolution of Florida hurricane related

building failures. Following questions and answers, public comment, and discussion the Committee took the following action:

Committee Action:

Motion—The HRAC voted unanimously, 7 - 0 in favor, to recommend the Commission authorize DCA to continue funding UF's existing roofing and soffit system research projects based on spending authority approved by the 2011 Florida Legislature for Fiscal Year 2011/2012, and to leverage additional funding sources to the extent possible (e.g., FEMA/DHS, NOAA/Sea Grant and RCMP/DEM).

GENERAL PUBLIC COMMENT

Members of the public were invited to provide the Committee with comments. There were no general public comments provided. Members of the public were provided opportunities spoke on each of the substantive discussion issues before the Committee.

NEXT STEPS

The Committee will continue to meet as needed to review research project updates, provide recommendations on needed research projects and funding for same, and provide recommendations regarding proposed code amendments relevant to hurricane and storm protection enhancements. A laboratory field trip will be arranged for a convenient time during the Commission's June 2011 meeting in Gainesville, provided the test equipment is online by that time. Check the Commission meeting agenda for further details.

ADJOURN

The Committee voted unanimously, 7 - 0 in favor, to adjourn at 11:30 AM.

ATTACHMENT I
MEETING EVALUATION

Average rank using a 0 to 10 scale, where 0 means totally disagree and 10 means totally agree.

1. Please assess the overall meeting.

9.67 The background information was very useful.

9.50 The agenda packet was very useful.

10.00 The objectives for the meeting were stated at the outset.

10.00 Overall, the objectives of the meeting were fully achieved.

9.83 Current Research Project Updates and Results Report.

9.67 Self-Adhering Underlayment for Tile Roof Systems Discussion.

9.67 Additional Research Supporting Hurricane Resistant Construction Standards Development Discussion.

9.67 Identification of Next Steps.

2. Please tell us how well the Facilitator helped the participants engage in the meeting.

10.00 The members followed the direction of the Facilitator.

10.00 The Facilitator made sure the concerns of all members were heard.

10.00 The Facilitator helped us arrange our time well.

10.00 Participant input was documented accurately.

3. What is your level of satisfaction with the meeting?

9.83 Overall, I am very satisfied with the meeting.

10.00 I was very satisfied with the services provided by the Facilitator.

10.00 I am satisfied with the outcome of the meeting.

4. What progress did you make?

9.83 I know what the next steps following this meeting will be.

9.83 I know who is responsible for the next steps.

6. What did you like best about the meeting?

- Facilitator (Jeff Blair).
- UF does an outstanding job with performing and reporting their research testing.
- Good information.
- Update on soffit research and vegetative roof system research to be conducted.

7. How could the meeting have been improved?

- Make presentation available prior to the meeting

8. Other Comments.

- Great Job.

ATTACHMENT II
MEETING ATTENDANCE—PUBLIC

PUBLIC MEETING ATTENDANCE	
NAME	REPRESENTATION
Jimmy Buckner	Engineers
Michael Lafevre	CWS
Bob Boyer	Commissioner/Local Government
John Pistorino	Engineers
Nicholas Nicholson	Commissioner/Structural Engineer
James Schoer	Commissioner/BOAF
Forrest Masters	University of Florida
David Prevatt	University of Florida
Richard Browdy	Commissioner/Residential Contractor
Hermino Gonzalez	Commissioner/Code Officials
Dwight Wilkes	AAMA
Steve Strawn	JELD-WEN
Many Oycla	Eagle Roofing
Dennis Chappell	Arch Windows
Zach Priest	PRI Construction Materials
Mike Silvers	Silvers Systems, Inc.