

**HINGED ENTRY DOORS WORKGROUP
REPORT TO THE FLORIDA BUILDING
COMMISSION**



MAY 23, 2012—MEETING I

TALLAHASSEE, FLORIDA

FACILITATION, MEETING AND PROCESS DESIGN BY



**REPORT BY JEFF A. BLAIR
FCRC CONSENSUS CENTER
FLORIDA STATE UNIVERSITY**



jblair@fsu.edu
<http://consensus.fsu.edu>

*This document is available in alternate formats upon request to DBPR, Codes & Standards,
1940 North Monroe Street, Tallahassee, FL 32399-0772, (850) 487-1824.*

**FLORIDA BUILDING COMMISSION
HINGED ENTRY DOORS WORKGROUP**

TABLE OF CONTENTS

<i>TABLE OF CONTENTS</i>	1
<i>TABLE OF ATTACHMENTS</i>	1
PROJECT OVERVIEW AND SCHEDULE	2
WELCOME AND ATTENDANCE	3
MEETING OBJECTIVES	3
REVIEW OF DECISION-MAKING PROCEDURES	4
REVIEW OF CURRENT RELATED CODE PROVISIONS	4
DISCUSSION ON WHETHER TO USE WORKGROUP PROCESS	4
GENERAL PUBLIC COMMENT	4
ADOPTION OF RECOMMENDATIONS TO COMMISSION	5
NEXT STEPS	5

ATTACHMENTS	6 - 8
I. WORKGROUP MAY 23, 2012 MEETING AGENDA	6
II. RELATED CODE PROVISIONS	7

FLORIDA BUILDING COMMISSION

HINGED ENTRY DOORS WORKGROUP

PROJECT OVERVIEW

Chairman Dick Browdy appointed a Workgroup to evaluate current FBC standards for hurricane related performance of hinged entry doors and recommend changes deemed critical to performance. The Chair noted that consistent with the Commission's workgroup procedures the *Hinged Entry Door Workgroup* will be conducted as a facilitated consensus-building process. Following are the Workgroup appointments:

WORKGROUP MEMBERSHIP	
MEMBER	REPRESENTATION
Jim Bell	Door Manufacturers Association
Jack Glenn	Florida Home Builders Association
Joe Hetzel	American Association of Automatic Door Manufacturers
Steve Strawn	JeldWen Windows and Doors
Dick Wilhelm	FMA
Dwight Wilkes	AAMA

PROJECT WORKPLAN

14. HURRICANE PERFORMANCE STANDARDS FOR HINGED ENTRY DOORS (FBC WORKPLAN PRIORITY: 9)															
TASK											SCHEDULE				
Evaluate current FBC standards for hurricane related performance of hinged entry doors and recommend changes deemed critical to performance											2011 - 2012				
Appoint a Hinged Door Wind Performance Workgroup											12/6/2011				
Commission decides to convene teleconference assessment meeting to determine whether there is a need for the Workgroup											April 3, 2012				
Workgroup Assessment Meeting (Teleconference)											May 23, 2012				
Report Assessment Meeting recommendations to Commission											June 12, 2012				
Report to the Structural TAC and Commission											TBD				
STATUS PENDING: % COMPLETE															
											50%				
<i>Origination: Commission. Stakeholder Request.</i>															

REPORT OF THE WEDNESDAY, MAY 23, 2012 MEETING

OPENING AND MEETING ATTENDANCE

Jeff Blair, Commission Facilitator, welcomed participants and opened the meeting at 1:00 PM.

The following six *Workgroup* members were present (6 of 6 members):

Jim Bell, Mike LaFevre, Jack Glenn, Joe Hetzel, Steve Strawn, and Dwight Wilkes.

Members Absent

None.

DCA Staff Present

Leslie Anderson-Adams, Joe Bigelow, Jim Hammers, Ila Jones, Mo Madani, Marlita Peters, 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/Hinged-Entry-Doors.html>

AGENDA REVIEW AND APPROVAL

The Workgroup voted unanimously, 6 - 0 in favor, to approve the agenda as presented including the following objectives:

- To Review Regular Procedural Topics (Agenda and Procedural Guidelines)
- To Review Current FBC Standards for Hurricane Related Performance of Hinged Entry Doors
- To Assess Whether There Are Specific Standards/Issues Requiring Changes Deemed Critical to Hurricane Related Performance of Hinged Entry Doors
- To Consider Public Comment
- To Recommend to the Commission Whether To Convene Hinged Entry Doors Workgroup and Recommend Strategy for Proceeding
- To Identify Needed Next Steps

(Attachment I—May 23, 2012 Workgroup Agenda)

REVIEW OF COMMISSION'S WORKGROUP MEETING GUIDELINES, CONSENSUS-BUILDING AND DECISION-MAKING PROCESS, AND SUNSHINE REQUIREMENTS

The Workgroup's process, decision-making procedures, applicability of the Sunshine Law and relevant procedural information were provided on pages 3 – 6 of the meeting agenda packet.

REVIEW OF CURRENT FLORIDA BUILDING CODE, BUILDING RELATED EXTERIOR DOOR CODE PROVISIONS

Mo Madani, DBPR Staff, provided members with an overview of the Florida Building Code, Building relevant exterior entry doors Code requirements and answered questions. The provisions are included as "*Attachment II*" of this Report.

(Attachment II—Related Code Provisions)

DISCUSSION ON WHETHER THERE ARE SPECIFIC STANDARDS/ISSUES REQUIRING CHANGES CRITICAL TO HURRICANE RELATED PERFORMANCE FOR HINGED ENTRY DOORS

Workgroup members had a general discussion on whether there was a need to utilize the workgroup process to build consensus on proposed modifications to the Florida Building Code regarding hurricane performance standards and requirements for hinged entry doors. The Workgroup agreed that on balance stakeholders could work together and propose any needed modifications for submittal during the 2013 Code Update process without using the workgroup process. Members felt that the existing labeling standards for garage doors could serve as a reasonable template and this could be done in a timely manner through informal discussions and possible code modifications proposed for the 2013 Code Update process.

GENERAL PUBLIC COMMENT

Members of the public were invited to provide the Workgroup with comments. Members of the public were also provided opportunities to speak on each of the substantive discussion issues before the Workgroup.

There were no additional public comments offered.

ADOPTION OF RECOMMENDATIONS FOR SUBMITTAL TO THE FLORIDA BUILDING COMMISSION

Following questions and answers and discussion the Workgroup took the following actions:

Workgroup Actions:

MOTION—The Workgroup voted unanimously, 6 - 0 in favor, to recommend that the Florida Building Commission not utilize the *Hinged Entry Doors Workgroup* process to develop exterior hinged entry door code modification recommendations, and stakeholders will address the issue through the 2013 Code Update process.

MOTION—The Workgroup voted unanimously, 6 - 0 in favor, to recommend the Florida Building Commission disband the *Hinged Entry Doors Workgroup* in order to allow stakeholders to work informally on developing proposed code modifications without restrictions resulting from Sunshine Law communication requirements.

NEXT STEPS

The Workgroup's recommendations will be submitted to the Florida Building Commission for consideration at the June 11-12, 2012 Commission meeting. The Commission's *Workplan* will be revised to reflect the Commission's decision.

ADJOURN

The Workgroup voted unanimously, 6 - 0 in favor, to adjourn at 1:30 PM.

ATTACHMENT I
WORKGROUP AGENDA—MAY 23, 2012

WORKGROUP MEETING OBJECTIVES

- To Review Regular Procedural Topics (Agenda and Procedural Guidelines)
- To Review Current FBC Standards for Hurricane Related Performance of Hinged Entry Doors
- To Assess Whether There Are Specific Standards/Issues Requiring Changes Deemed Critical to Hurricane Related Performance of Hinged Entry Doors
- To Consider Public Comment
- To Recommend to the Commission Whether To Convene Hinged Entry Doors Workgroup and Recommend Strategy for Proceeding
- To Identify Needed Next Steps

MEETING AGENDA—WEDNESDAY, MAY 23, 2012

All Agenda Times—including Adjournment—are Approximate and Subject to Change

1:00 PM	A.)	Welcome and Opening	Blair
	B.)	Agenda Review and Approval	Blair
	C.)	Review of Commission’s Workgroup Meeting Guidelines, Consensus-Building and Decision-Making Process, and Sunshine Requirements	Blair
	D.)	Review of Current FBC Standards for Hurricane Related Performance of Hinged Entry Doors	Madani
	E.)	Discussion of Whether There are Specific Standards/Issues Requiring Changes Critical to Hurricane Related Performance for Hinged Entry Doors	Workgroup
	F.)	General Public Comment	Blair
	G.)	Recommendation to FBC Whether to Convene Workgroup Process for Hinged Entry Doors and Recommended Strategy	Workgroup
	H.)	Next Steps	Blair
	I.)	<i>Adjourn</i>	

ATTACHMENT II

2012 FBC, BUILDING RELATED EXTERIOR DOOR CODE PROVISIONS

2010 FLORIDA BUILDING CODE, BUILDING RELATED EXTERIOR DOOR CODE PROVISIONS

1715.5.3 Exterior door assemblies. Exterior door assemblies not covered by Section 1715.5.2 or Section 1715.5.3.1 shall be tested for structural integrity in accordance with ASTM E 330, Procedure A, at a load of 1.5 times the required design pressure load. The load shall be sustained for 10 seconds with no permanent deformation of any main frame or panel member in excess of 0.4 percent of its span after the load is removed. The design pressures, as determined from ASCE 7, are permitted to be multiplied by 0.6. High-velocity hurricane zones shall comply with TAS 202. After each specified loading, there shall be no glass breakage, permanent damage to fasteners, hardware parts, or any other damage which causes the door to be inoperable.

The minimum test sizes and minimum design pressures shall be as indicated in Table 1715.5.3. The unit size tested shall qualify all units smaller in width and/or height of the same operation type and be limited to cases where frame, panels and structural members maintain the same profile as tested.

Exceptions:

1. Door assemblies installed in nonhabitable areas where the door assembly and area are designed to accept water infiltration, need not be tested for water infiltration.

2. Door assemblies installed where the overhang (OH) ratio is equal to or more than 1 need not be tested for water infiltration. The overhang ratio shall be calculated by the following equation:

OH ratio = OH Length/OH Height where:

OH Length = The horizontal measure of how far an overhang over a door projects out from the door's surface.

OH Height = The vertical measure of the distance from the door's sill to the bottom of the overhang over a door.

1715.5.3.1 Sectional garage doors and rolling doors shall be tested for determination of structural performance under uniform static air pressure difference in accordance with ANSI/DASMA 108, ASTM E 330, Procedure A, or TAS 202. For products tested in accordance with ASTM E 330, testing shall include a load of 1.5 times the required design pressure load sustained for 10 seconds, and acceptance criteria shall be in accordance with ANSI/DASMA 108. (HVHZ shall comply with TAS 202.) Design pressures shall be determined from Table 1609.7(1) or ASCE 7. The design pressures, as determined from ASCE 7, are permitted to be multiplied by 0.6.

1715.5.3.2 Custom doors. Custom (one of a kind) exterior door assemblies shall be tested by an approved testing laboratory or be engineered in accordance with accepted engineering practices.

1715.5.3.3 Door components evaluated by an approved product evaluation entity, certification agency, testing laboratory or engineer may be interchangeable in exterior door assemblies provided that the door component(s) provide equal or greater structural performance as demonstrated by accepted engineering practices.

1715.5.3.3.1 Optional exterior door component testing. With the exception of HVHZ, exterior side-hinged door assemblies not covered by Section 1715.5.2 shall have the option to have the components of the assembly tested and rated for structural integrity in accordance with the following specification:

SDI A250.13

Following the structural testing of exterior door components, there shall be no permanent deformation of any perimeter frame or panel member in excess of 0.4 percent of its span after the load is removed. After each specified loading, there shall be no glass breakage, permanent damage to fasteners, hardware parts, or any other damage that causes the door to be inoperable, as applicable.

1715.5.3.4 Garage Door Labeling. Garage doors shall be labeled with a permanent label provided by the manufacturer. The label shall identify the manufacturer, the garage door model/series number, the positive and negative design pressure rating, indicate impact rated if applicable, the installation instruction drawing reference number, the Florida Product Approval or Miami-Dade Product Approval number if applicable, and the applicable test standards.

The required garage door components for an approved garage door assembly may be indicated using a checklist format on the label. If a checklist format is used on the label, the installer or manufacturer shall mark the selected components on the checklist that are required to assemble an approved garage door system. The installation instructions shall be provided and available on the job site.