

Stronger than the Wind: Building Better, Being Resilient



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National Hurricane Conference New Orleans, LA

Rob Galbraith, CPCU, CLU, ChFC Director, Property Underwriting Property & Casualty Company

April 20, 2017

Who We Are



Our Mission

The mission of the association is to facilitate the financial security of its members, associates, and their families through provision of a full range of highly competitive financial products and services; in so doing, USAA seeks to be the provider of choice for the military community.

Our Core Values

Service ◆ Loyalty ◆ Honesty ◆ Integrity

Our Brand Promise GOING ABOVE

FOR THOSE WHO HAVE GONE BEYOND

Our Brand Pillars



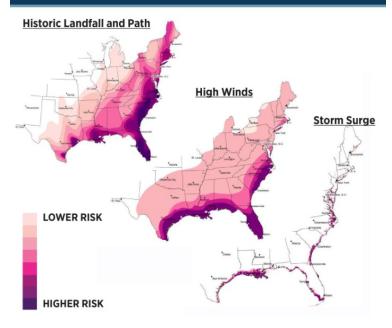
Shared Military Values Financial Strength & Wisdom Passionat e Member Advocacy

Risk Assessment



HURRICANE RISK

for the contiguous United States



This map portrays a general representation of risk associated with high winds and storm surge. They are not intended to predict a special event or occurrence. Source: National Hurricane Center (NHC), nhc.noaa.gov

Resources To Help Prepare for Disaster







Protect Your Home: A Month-by-Month Guide

With the right preparation and maintenance, you can help protect your home year-round from fire, floods, high winds and other potential disasters.

Learn More

More Disaster Preparedness Resources

Make Evacuation Less Stressful
Why Flood Insurance Is a Wise Homeowner Bet

Top Considerations for Military Families

4 Steps to Prepare Financially for a Disaster

Questions to Ask When Renting Your New Home

Prep Your Finances





Deductibles

Coverage limits

Policy exclusions

Emergency fund

Secure storage of records

Home inventory

Promoting Resilience





IBHS FORTIFIED



"Getting the Roof Right"





Education & Advocacy







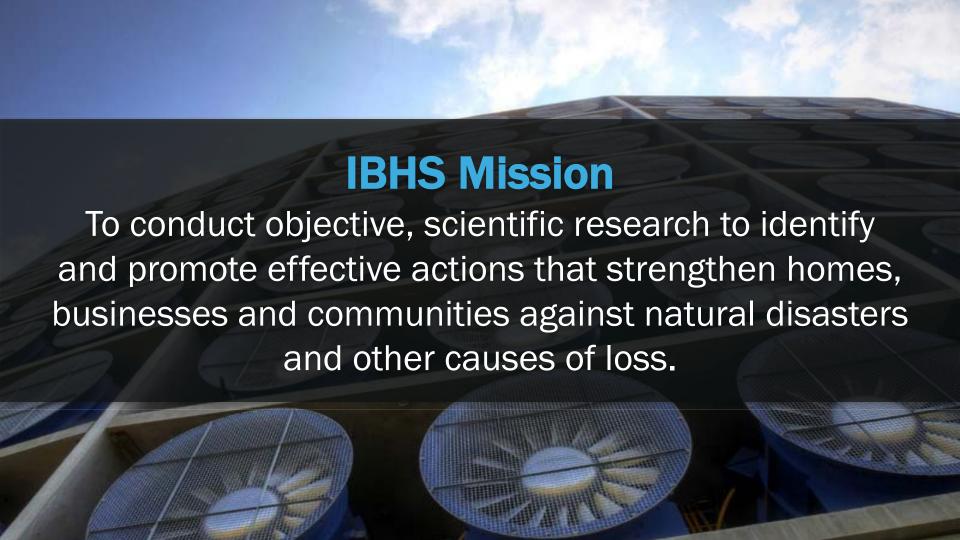
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National Hurricane Conference April 20, 2017 Alex Cary





WIND WILDFIRE RAIN







The Challenges for Resilience...

Consumers don't understand their risk

Need to Change Attitudes/Preferences

- Consumers value what they can see more than what they cannot.
- Consumers need an objective way to compare alternatives.

Consumers make purchasing decisions with incomplete information.



What is FORTIFIED?





What is FORTIFIED?



Hurricane



High Wind/High Wind & Hail



Roof and Attic Ventilation
System

*Class 3 or 4 Impact Rating for HWH



Openings, Gables and Attached Structures

Gables, Porches, Carports and Chimneys



Structure (Continuous Load Path) and Chimney

Garage Doors and Structure (CLP)



Why FORTIFIED?

Consistent

Definable

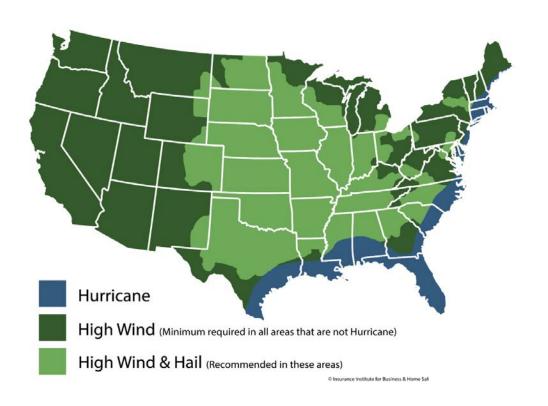
Verifiable

Systems Based





FORTIFIED Risk Map







Which home would you want?





https://www.youtube.com/watch?v=JMOgmDfVR_I

Which home would you want to....

Live in...

Live next to ...

Sell or Buy ...

Insure ...



Sealed Roof Deck Demonstration





Sealed Roof Deck Demonstration



Reduce Stress

"Repairs and/or reconstruction can be a long haul, and a challenging process to endure, so reducing the stress of your temporary living situation is critical.

If a family of 4 or 5 is crammed into a 2 bedroom apartment for 18 months when they are accustomed to living in a 5 bedroom home, that's an important factor to consider."

—JM, 2007 Witch Creek Fire Survivor





Why FORTIFIED?







FORTIFIED vs. Traditional Construction

Traditional

Focus: Life safety with limited property protection

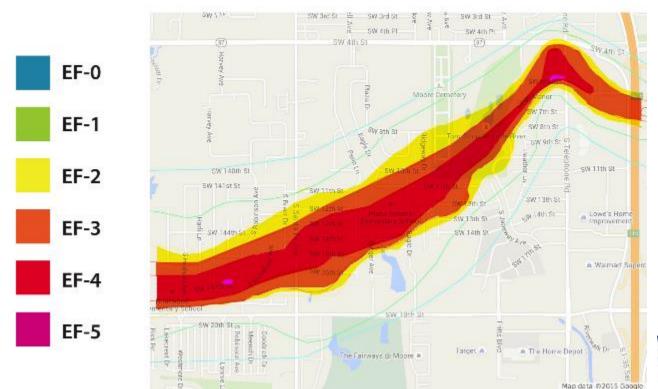
In Design Level Event: Building survives well enough to save lives

FORTIFIED

Focus: Life safety plus hazard-specific property protection In Design Level Event: **Building survives event** and will quickly be reuseable

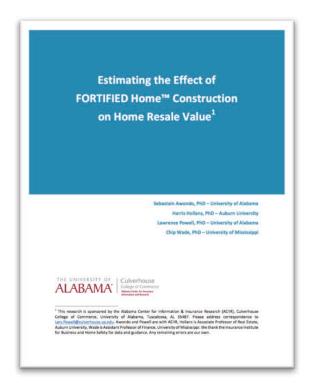
Narrowing the Path, Reducing Damage

May 20, 2013 Newcastle-South OKC-Moore EF-5 Tornado





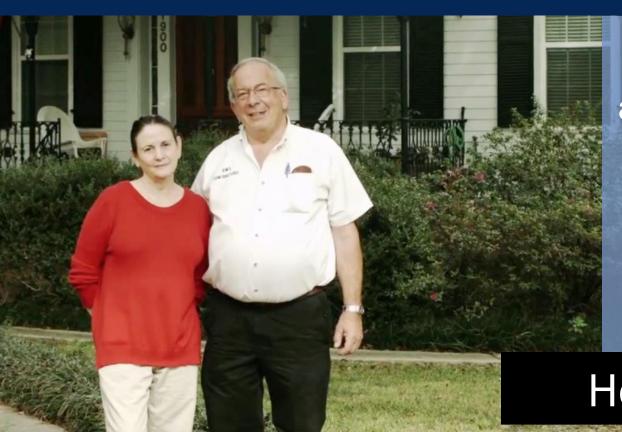
FORTIFIED Home™ Impacts Resale Values



"Results show that switching from a conventional construction standard to a Fortified designation increases the value of a home by **nearly 7%** holding all other variables constant."



FORTIFIED Homeowner



There was almost a million dollars of damage in this area during this event last spring, and we had zero damage.

Howard S.

FORTIFIED Testimonials

You're paying an extra percentage to protect your software, your computer, your car... why not do it with your home?



Building a home that's **FORTIFIED** raises the standard throughout the entire community.

Mike H.

FORTIFIED Contractor

Learn More

Download the FORTIFIED Home™
On the Go App for iPad





Visit www.FortifiedHome.org



Questions?

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Reduce the Loss and Cost of Disaster

Julie Shiyou-Woodard

President and CEO

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Informed Decisions Make a Smart Home



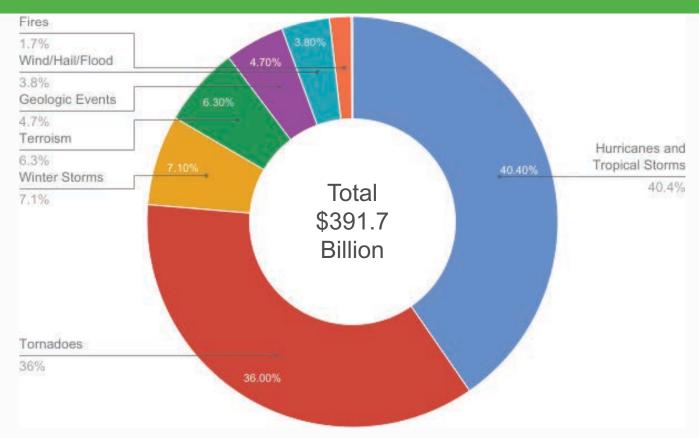


U.S Homes by Natural Disaster Risk Level





U.S Insured Catastrophe Losses by Cause, 1995-2014





Who we work with

Elected Officials Builders & Contractors

Building Officials Appraisers

Consumers Manufacturers & Suppliers

Building Inspectors Emergency Managers

Insurers Architects & Engineers

Realtors Academics



TOP 20 FORTIFIED[™]CITIES IN AMERICA

			FORTIFIED™
National Rank	State	City	Homes
1	AL	Fairhope	542
2	AL	Daphne	401
3	AL	Mobile	306
4	AL	Foley	274
5	AL	Gulf Shores	267
6	AL	Spanish Fort	255
7	AL	Semmes	132
8 9	MS	Gulfport	122
9	AL	Orange Beach	116
10	MS	Ocean Springs	114
11	MS	Biloxi	98
12	FL	Panama City Beach	87
13	sc	Myrtle Beach	74
14	AL	Theodore	67
15	AL	Saraland	62
16	MS	Long Beach	52
17	AL	Loxley	50
18	MS	Pass Christian	47
19	AL	Summerdale	39
20	TV	Galveston	22

Resources





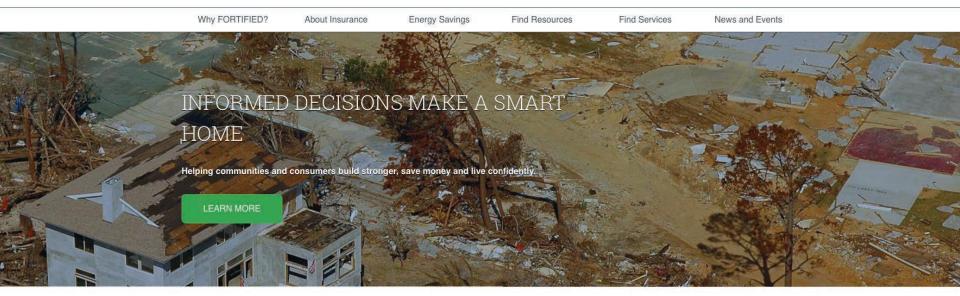








CONTACT US









The Building Industry



For Insurers



For Realtors







FORTIFIED Wise Certification



Available in several states:

Alabama, Mississippi, Oklahoma and the Carolinas

CEUs

- ICC
- AIA
- Departments of Insurance
- Associations of Realtors®

Fee includes the cost of the class, lunch, the FORTIFIED Wise Manual and listing in the FORTIFIED Wise Directory.

For more information and to register, please visit www.fortified.archtest.com

How does Alabama lead in FORTIFIED construction?





Alabama and FORTIFIED



- Alabama is one of four states to offer smart financing solutions for FORTIFIED
- FORTIFIED is attracting new insurers
- Each insurance company's discounts are different, homeowners should contact their insurer for details.
- We recommend shopping for your coverage



Smart Financing Solutions in Alabama



- ■2009 | Alabama passed Act SB500
 - Requires admitted insurers to provide actuarially sound discounts
 - Regulations updated in 2016
 - Expands Statewide in 2018
- Tax credits up to \$3,000
- Catastrophe savings accounts



Strengthen Alabama Homes



Provides grants up to \$10,000 for mitigating qualified, existing, primary homes

No income limits

Retrofits will meet the FORTIFIED Home™ Bronze or Silver standard

StrengthenAlabamaHomes.com



What was the solution?



Local group of advocates formed

Education of key stakeholders

Passage of innovative legislation

Convene stakeholders – Create path forward

Proof of concept projects

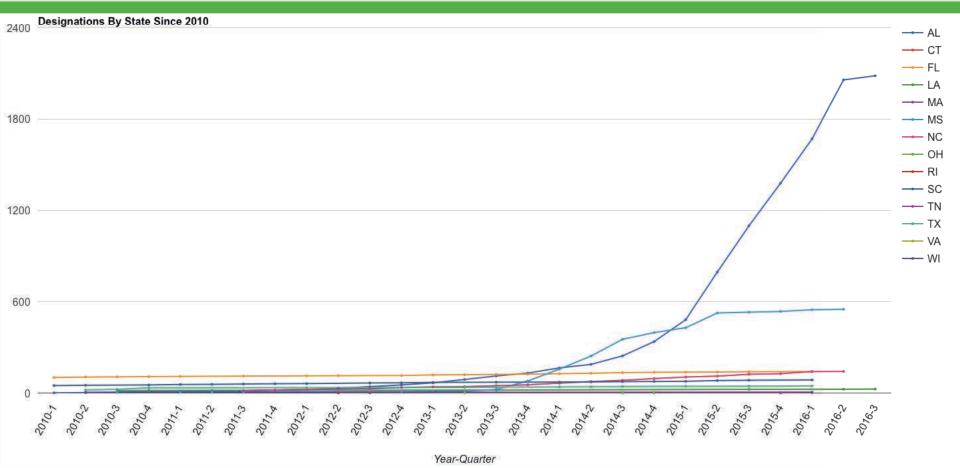
Code adopted at the local level

Educate public – demand increased

SmartHomeAmerica.org



Designation timeline in the U.S.



Why FORTIFIED?





Choose FORTIFIED because...



Renewable



Savings



Affordable



Strength



Transferable



Peace of mind



FORTIFIED Increases Home Value

Estimating the Effect of FORTIFIED Home™ Construction on Home Resale Value¹ Sebastain Awondo, PhD - University of Alabama Harris Hollans, PhD - Auburn University Lawrence Powell, PhD - University of Alabama Chip Wade, PhD - University of Mississippi College of Commerce, The University of Alabama, Tuscaloosa, Al. 35487. Please address correspondence to ars.Powell@culverhouse.ua.edu. Awondo and Powell are with ACIIR, Hollans is Associate Professor of Real Estate, Auburn University, Wade is Assistant Professor of Finance, University of Mississippi. We thank the Insurance Institute for Business and Home Safety (IBHS) for data and guidance. Any remaining errors are our own.

Preliminary results show an increase of nearly 7%...

But as you get closer to the water, further research shows it's nearing 12%

According to an ongoing study conducted by:









Habitat for Humanity

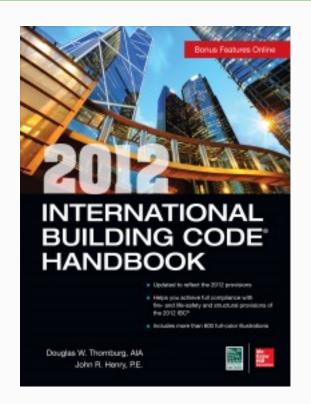


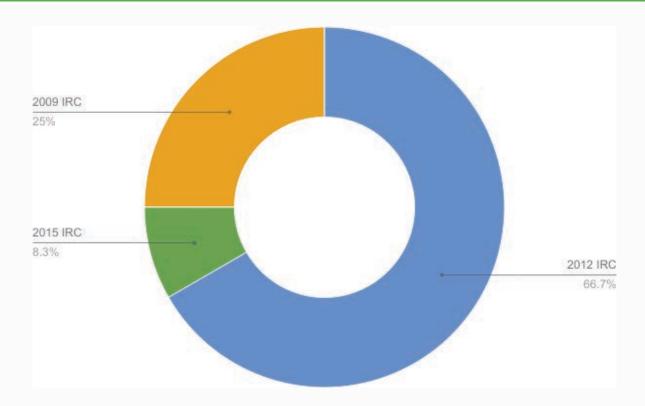
Planning for Disaster -Build Stronger-





Code adoption in coastal Alabama







The Coastal Code Supplement



With adoption of the 2009, 2012 or 2015 IRC and the full Coastal Code Supplement:

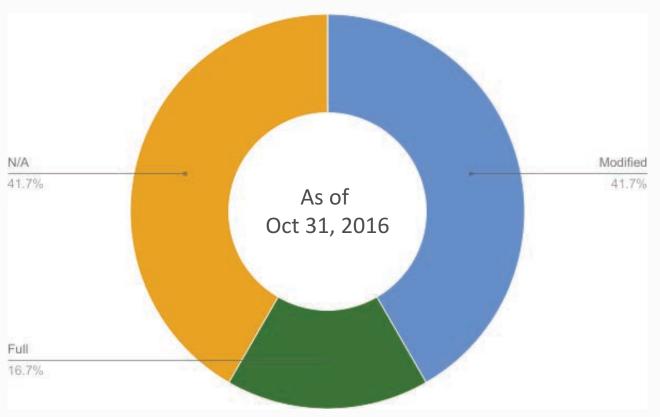
- A new, or re-roofed, home is built to, at minimum, FORTIFIED HomeTM Bronze
- With a certified Evaluation a FORTIFIED designation, insurance discounts* can be achieved.

^{*}if applicable in your area.



Code Supplement adoption in coastal Alabama





SmartHomeAmerica.org

Can FORTIFIED Reduce Loss and Cost?





Save Time and Money During Recovery

What if you reduce debris and the removal costs?

Take the example of a city with 24,000 people & 10,000 housing units.

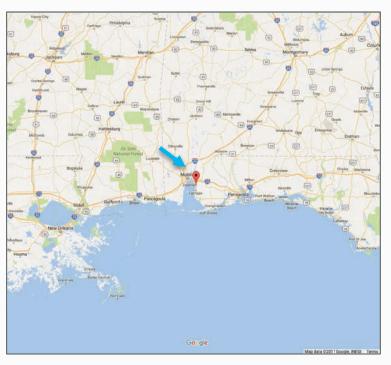
Daphne, Alabama

Lets use their Debris Management Plan estimates as a baseline

	Hurricane	Cubic Yardage	
	Category 1	9,466	
	Category 2	37,863	
	Category 3	123,055	
	Category 4	236,644	
	Category 5	378,631	



Where is Daphne, Alabama?



- On Mobile Bay 27.5 miles to Gulf
- The largest municipality in Baldwin County by population.
- Approximately 17.5 sq. miles
- Baldwin County has a wet, sub tropical maritime climate
- A major hurricane is likely to create the largest volume of debris on a citywide basis

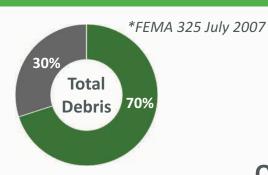


Example 1 = A Category 3 Storm Hits Anytown, USA



123,000 cubic yards (CY)

of debris is created
*City of Daphne Debris Management Plan



70% = 86,100 CYConstruction and demolition debris (C&D)



One 2,000 sq/ft house = 600 CY of debris & \$7,200 to remove

*FEMA 325 July 2007



86,100 CY = \sim **144,** 2,000 sq/ft homes



That's \$1,036,800 total potential C&D debris cost Anywhere, USA could owe \$259,200 *FEMA 75/25



Think about this

- Did Anytown, USA plan "good enough?"
- Should they build back the same way afterwards?
 - The vicious cycle of "rinse and repeat"
- If so, what does that look like in terms of future...
 - Debris removal costs
 - o Time
 - Effort
 - Lost economic productivity, businesses
 - Fewer residents and a smaller tax base

There are solutions to plan ahead and build stronger

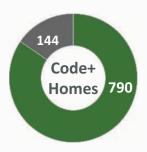




Example 2 = A Category 3 Storm hits Daphne, Alabama



86,100 cubic yards (CY) of debris is still created



934 Total
Built or rebuilt to code+

Data doesn't include code+ re-roofs



BUT...Daphne adopted the **Code Supplement** in June 2012





All **790 new homes** since 6/2012 have been built to code-plus standards

We can assume fewer fix's will be damaged during future events



How much could be being resilient save?



*UA, ACRE & IBHS

934 or 9.3% of all homes in Daphne are code-plus

790 built and 144 rebuilt to code+.
400 FORTIFIED



934 houses = 560,400 CY of debris

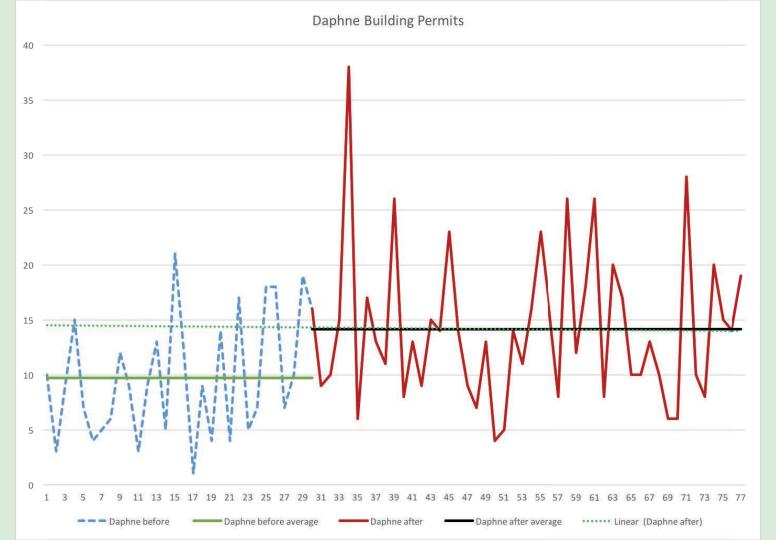
@600 CY of debris per house



934 homes x's \$7,200 for each home to be removed

\$6,724,800 potential total future C&D debris removal savings

Daphne can save \$1,681,200 *FEMA 75/25



THANK YOU Questions?

Stronger than the Wind: Building Better, Being Resilient Session J2



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