

# FORTIFIED for Existing Homes®

## HURRICANE RESISTANCE BRONZE DESIGNATION

Field Checklist for Re-roofing Projects



### EXISTING ROOF

The Insurance Institute for Business & Home Safety FORTIFIED for Existing Homes® program helps any homeowner in a coastal area strengthen their home against the devastating power of tropical storms and hurricanes.

Whether working with a homeowner to upgrade, re-build, remodel or maintain their home, using the FORTIFIED for Existing Homes® Hurricane Resistance standards, can turn your client's home into a resilient, durable, hurricane resistant, single-family home.

This checklist is a tool that will assist roofing contractors to identify and track the installation of FORTIFIED upgrades to the roof and attic ventilation systems that are required to qualify for a FORTIFIED Hurricane Resistance Bronze designation.

COMPONENT/SYSTEM			
<b>ROOF</b> <ul style="list-style-type: none"> <li>• Roof deck is sealed</li> <li>• Roof deck attachment meets program standards</li> <li>• Roof covering condition meets standards</li> </ul>	✓	✓	✓
<b>ATTIC VENTILATION</b> <ul style="list-style-type: none"> <li>• Roof mounted vents are high wind rated</li> <li>• Soffit vents will resist water intrusion</li> <li>• Gable overhangs and vents properly constructed</li> <li>• Gable end vents are protected against water intrusion</li> </ul>	✓	✓	✓
<b>GABLES OVER 4' TALL - EXTERIOR</b> (if applicable) <ul style="list-style-type: none"> <li>• Must have structural sheathing</li> </ul>	✓	✓	✓
<b>OPENINGS</b> <ul style="list-style-type: none"> <li>• Impact protected with an approved system</li> </ul>		✓	✓
<b>ATTACHED STRUCTURES - PORCHES/CARPORTS</b> <ul style="list-style-type: none"> <li>• Roof to beam strapped to resist uplift</li> <li>• Beam to column strapped to resist uplift</li> <li>• Column to structure strapped to resist uplift</li> </ul>		✓	✓
<b>GABLES OVER 4' TALL- BRACING</b> (if applicable) <ul style="list-style-type: none"> <li>• Braced to withstand high wind pressures</li> </ul>		✓	✓
<b>CHIMNEYS</b> (if applicable) <ul style="list-style-type: none"> <li>• Properly attached to structure</li> </ul>			✓
<b>OPENINGS</b> <ul style="list-style-type: none"> <li>• Have adequate design pressure ratings</li> </ul>			✓
<b>CONTINUOUS LOAD PATH</b> <ul style="list-style-type: none"> <li>• Roof to wall connection</li> <li>• Wall to floor connection</li> <li>• Floor to foundation</li> </ul>			✓

### ADDITIONAL RESOURCES AVAILABLE AT DISASTERSAFETY.ORG/ FORTIFIED:

- FORTIFIED for Existing Homes® evaluation application
- Answers to Frequently Asked Questions
- Downloadable FORTIFIED for Existing Homes® Hurricane Resistance Engineering Guide
- Information on a home will be evaluated after the roof replacement is complete
- The FORTIFIED Evaluator Directory



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# The FORTIFIED for Existing Homes™ designation process involves six simple steps:

## STEP 1. APPLY

Once the re-roofing project is complete, the homeowner will need to visit the FORTIFIED for Existing Homes™ section at [www.DisasterSafety.org/fortified](http://www.DisasterSafety.org/fortified), and complete an online application. There is no charge and it takes less than 5 minutes.

## STEP 2. SCHEDULE AN EVALUATION

When the application is received and processed, the homeowner will be directed to a list of certified evaluators approved to work in your area. The next step is to schedule a fee-based evaluation of the home by an IBHS certified FORTIFIED evaluator. The homeowner has the option to interview any evaluator listed, discuss their fees and negotiate accordingly. All FORTIFIED Evaluators are certified by IBHS after completing a comprehensive training program, passing an exam and meeting IBHS' rigorous professional requirements.

## STEP 3. HAVE FORTIFIED EVALUATION PERFORMED

At the scheduled time, the evaluator selected by the homeowner will visit the home and conduct a FORTIFIED evaluation. The evaluator's role is to collect information about the home and complete a comprehensive checklist provided by IBHS. At the conclusion of the evaluation, the information is transmitted to IBHS for analysis.

## STEP 4. RECEIVE AND REVIEW CUSTOMIZED REPORT FROM IBHS

After the evaluation, the homeowner will receive a written report, called the Current Condition Report, by email from IBHS. This report will include an analysis of the home's current condition, explain deficiencies (if any) and identify further improvements needed to achieve each of the three FORTIFIED designations for the specified natural hazard.

## STEP 5. TAKE ACTION

If the criteria outlined in this checklist are executed and documented properly, the home will qualify for a FORTIFIED Bronze designation. If the property owner would like to further upgrade the home and achieve a Silver or Gold designation in the future, the Current Condition report can be used as the basis for creating a FORTIFIED action plan to further strengthen their home.




## STEP 6. GET DESIGNATED

Using this checklist will help ensure proper completion and documentation of FEH Bronze requirements and paves the way to a Bronze designation. Actual Bronze designation is contingent on verification of compliance by IBHS.






# Field Checklist for Re-roofing






## ROOF CONSTRUCTION

(refer to pages 8 & 9 of Engineering Guide)






			
Roof sheathing panels (plywood or OSB) are a minimum of 7/16" thick			
The roof sheathing panels must be fastened in accordance with Table 2 on page 9 of the Engineering Guide. This may require that fasteners be added.		or	
Complete the following (required):			
Design wind speed established by local jurisdiction: .....			
Fastener type: .....			
Existing fastener spacing - Along panel edge .....			
Existing fastener spacing - In the field .....			
-OR-			
Roof deck is sawn lumber or wood board decking (see page 8 for fastener type requirements)		or	
Roof framing members are maximum 24" on center		or	
NOTE: All deteriorated or damaged roof decking must be repaired in accordance with methods described on pages 10 – 12 of the Engineering Guide			

## PREVENTING WATER INTRUSION SEALING THE ROOF DECK






					
Reinforced synthetic underlayment installed w/ button cap nails, horizontal and vertical laps are sealed/taped		or	&		
Self adhering polymer modified bitumen tape at least 4" wide applied to all vertical and horizontal roof sheathing seams with 30# Type II underlayment applied over tape		or	N/A		
A full layer of self-adhering polymer modified bitumen membrane ("peel & stick") is applied to the entire roof deck		or	N/A		
-OR-					
A closed-cell 2-part spray applied polyurethane foam is applied to the underside of the roof sheathing panels at the joints between panels and along all intersections roof sheathing and roof framing members					

-  Photograph required: all photographs must clearly show the fortified upgrade installed
-  Product documentation required
-  Contractor affidavit: must identify product(s) used and must reference property address
-  Invoice/delivery documents: must reference property address
-  Item complete





## ROOF COVERING

Select one type:						
Asphalt Shingles	(must meet requirements provided in Table 5 on page 16 of the Engineering Guide)					
If asphalt shingles:	All shingles and starters at intersections, eaves, valleys a gable end shingles are set in 8"-wide strip of flashing cement			or	or	
Concrete or clay tiles	Installation meets requirements on page 16 of the Engineering Guide			or	or	
Metal roofing panels	Installation meets requirements on page 17 of the Engineering Guide			or	or	
Other roof covering materials	Installation meets requirements on page 17 of the Engineering Guide			or	or	
NOTE: Detailed material requirements and installation requirements by roof covering type are found on pages 12 – 15 of Engineering Guide.*						




## ATTIC VENTILATION SYSTEM - ROOF AND WALL VENTS CONSTRUCTION

						
Attic is sealed, no ventilation at overhangs or on roof of any kind (if checked, skip to Gables-Exterior)				N/A	N/A	N/A
If attic is not sealed:	ROOF MOUNTED VENTS: (indicate # of each vent type found on the roof)					
	Number of ridge-vents					
	Number of off-ridge vents					
	All roof mounted vents meet requirements of TAS 100(A)		N/A		or	
	All roof mounted vents are installed per manufacturer's high wind installation requirements		N/A		or	




## ATTIC VENTILATION SYSTEM - GABLE END WALL VENTS

(if not applicable, skip this section)					
House has gable end vents				N/A	N/A
Gable end vents are shuttered (with permanent anchors installed) to prevent water intrusion per the details on page 24 of the Engineering Guide					
NOTE: If home has gable end vents, vents must be protected to prevent water intrusion in order to qualify for a Bronze designation. See page 24 of the Engineering Guide for detail.					




## ATTIC VENTILATION SYSTEM - SOFFITS AND OVERHANGS

			
Soffits and overhangs are $\leq 12"$ deep (measured from face of wall to the outside edge of the soffit)			
Soffits and overhangs greater than 12", and covered with aluminium or vinyl material have additional support in accordance with details on pages 21 – 22 in Engineering Guide			
Soffit and Overhangs are covered with rigid material (for example, wood panels or fiber cement)			

## GABLES OVER 4' TALL - EXTERIOR

(if not applicable, skip this section)			
Gable end walls are sheathed with a minimum of 7/16" plywood, or OSB			
Gable end walls are sheathed with sawn lumber or wood board siding, nominally 1" thick			
NOTE: If either of these items is checked, the gable end walls will not require retrofit in order to qualify for Bronze designation.			

## GABLES WITH OVERHANG AND OUTLOOKERS

(to upgrade and verify compliance soffit material may have to be removed)			
Outlookers are a minimum 2 x 4 framing at 24" o.c.			or
Outlookers and/or roof framing members are not notched			or
Outlooker overhang does not exceed 26"			or
Gable end wall is sheathed with 7/16" plywood or OSB or 1" thick sawn lumber or board siding			or
Outlooker details comply with standards in Engineering Guide on pages 17 & 18			or

### OTHER IMPORTANT FORTIFIED INFORMATION:

This checklist is only a summary and omits detailed information related to compliance and verification. Further information about the prescriptive methods and performance standards herein and how they are verified for designation purposes can be found in the FORTIFIED for Existing Homes™ Hurricane Engineering Guide (available for download at [www.disastersafety.org](http://www.disastersafety.org)). Any questions related to compliance should be directed to your chosen FORTIFIED evaluator.

Many of the systems and components that will require improvement during the re-roofing process are typically concealed by finished materials (ie. roof underlayment is covered by roof covering). For a re-roofing project, documentation of FORTIFIED improvements will be required prior to the upgrades being concealed to verify that the work done meets FORTIFIED standards. Using this checklist and the compiled documentation, the contractor working with the homeowner can provide a detailed package of information critical for the designation process. The homeowner can then apply at [www.disastersafety.org/fortified](http://www.disastersafety.org/fortified) and request that their home receive a FORTIFIED for Existing Homes™ Hurricane Bronze resistance designation. A certified evaluator will be required to audit the property for compliance and submit documentation to IBHS for review and designation.

The Insurance Institute for Business & Home Safety provides local evaluator training and certification to ensure that designation is consistent, accurate, and technically rigorous throughout the country.

FORTIFIED building programs also include marketing and advocacy guidance for member companies and local FORTIFIED service providers to communicate the benefits and the importance of keeping homes FORTIFIED.