IBHS *Fortified...for safer living®*

Self-Assessment Checklist for Mandatory Requirements
Hurricane, High Wind, Tornado and Hail Hazards

Thank you for your interest in the ***Fortified*** program. You must complete this checklist before a project application can be released to you. Your goal is to understand the requirements of the program and assess your readiness to seek a ***Fortified*** designation.

Date:_____

Last Name:_____

First Name:_____

Business Name:_____

Email Address:_____

Business Phone:_____

Project Address:_____

City:_____

State:_____

Zip:_____

I am a:

☐Fortified Project Manager

☐Builder

☐Designer

☐Homeowner

☐Manufacturer

☐General Contractor

☐Other:_____

Instructions:

1. First, read the ***Fortified*** Builder's Guide---do not assume you understand this program without reading the Guide.

2. Answer ALL questions.

3. Return this completed checklist via email to FB@IBHS.ORG. ***Fortified*** staff will review your answers to determine if an application can be released to you.

I have read the above instructions:☑

1. To specifically meet ***Fortified*** wind criteria, the design will be prepared and sealed by a Registered Engineer: YES☑ and/or a Registered Architect: YES☑

   If both NO---project CANNOT meet ***Fortified*** requirements.

2. The design referenced above will be provided to IBHS: YES☑

3. Certified shop drawings and related engineering documents for components and their connections to superstructure (e.g.: piles, structural systems, wall panel products, or other pre-engineered and pre-manufactured building components) of the building will be reviewed/approved by the Professional of Record (Architect or Engineer licensed in the state of the site) **and** provided to IBHS: YES☑

   In addition, *if* roof or floor is conventionally framed, certified framing plans indicating size, spacing, and required connections to superstructure will be provided to IBHS: YES☐ N/A☑

4. An authorized inspector will verify that all mandatory design items have been correctly installed in the project during construction; inspection reports and photos will be provided to IBHS: YES☑

5. ***Fortified*** Design Wind Speed (FDWS) at the site = ASCE-7 + 20 MPH. To calculate FDWS, first identify the design wind speed at the site from ASCE-7 (see ***Fortified*** Builder's Guide Appendix A for wind speed maps), then add 20MPH:

   ASCE-7 = 90 +20 = 110 = FDWS. Project will be designed according to FDWS: YES☑

6. Identify the wind speed exposure category for the site (select one):

   ☑**Exposure B**: urban and suburban areas, wooded area, or other terrain with numerous closely spaced obstructions having the size of single-family dwellings or larger.

   ☐**Exposure C**: open terrain with scattered obstructions having heights generally less than 30 ft. This category includes flat open country, grasslands, and all water surfaces in hurricane prone regions.

7. Roof coverings (shingle, tile, or metal panel, etc.) and their attachment must be rated for FDWS pressures using **Exposure C**. Select applicable roof coverings for the design:

   i. Shingles and installation---will meet the following ASTM D-7158 criteria for the given FDWS:

   ✓ 110 MPH - Class F, G, or H
   ✓ 120 MPH - Class G or H
   ✓ > 130 MPH - Class H

   YES☐ FDWS = 110 Class = F

   ii. Roof tile and installation---will meet FDWS for Exposure C: YES☑ FDWS = 110

   iii. Metal roof/other roof covering and installation---will meet FDWS uplift pressures for Exposure C:

   YES☐ FDWS = 110. If "other" specify type _____

8. Roof Underlayment / Secondary Water Resistance: an approved secondary water barrier is required and must be installed according to ***Fortified*** specifications. See ***Fortified*** Builder's Guide, Section 3-V for options. Project will be designed accordingly: YES☑

9. Roof decks (sheathing): minimum of 5/8" (nominal) thick 40/20 rated sheathing is required and must be provided. Sheathing will be attached to roof members with 8d ring-shank nails at 6" o.c. maximum throughout supports. Project will be designed accordingly: YES☑ If conventional sheathing not used, specify reason_____

10. Soffits: wood or manufactured panels and their attachment will be capable of resisting FDWS pressure for the adjacent wall area: YES☑ If conventional soffits not used, specify reason_____

11. The design pressure (DP ratings) of all glazed openings and doors (including garage doors) will be capable of resisting FDWS pressures based on **Exposure C**: YES☑

    NOTE: Appendix C of the ***Fortified*** Builder's Guide contains window and door design pressures for quick reference.

12. Opening Protection Requirements: large missile impact rated (must meet ASTM E1886 and E1996, or Miami-Dade TAS/PA 201, 202, and 203) opening installations/materials or a large missile impact rated covering system required for all building doors/glazed openings in geographic areas with FDWS 120 MPH or higher.

    NOTE: opening protection also required where FDWS is 110 mph and site within 1 mile of coast.

    NOTE: impact-rated garage doors required for sites where FDWS exceeds 160mph.

    Are you in an area where impact protection is required?

    YES☐ NO☑ If YES, then:

    Approved window/door product impact protection will be provided: YES☐

    NOTE: plywood for opening protection is NOT permitted in the *Fortified* program.

13. Exterior walls will be fully sheathed, or use a construction system tested and approved to resist wind-borne debris: YES☑

14. Are you in a Tornado/Hail Region as defined in Figure 3-1 of the ***Fortified*** Builder's Guide?

    YES☐ NO☑ If YES, then:

    An impact resistant roof covering meeting the requirements of UL2218 Class 4 or FM4473 Class 4 must be installed---this is in addition to the requirements referenced in question 7: YES☐

END OF CHECKLIST