

IBHS Fortified...for safer living®

**Self-Assessment Checklist for Mandatory Requirements
Seismic Hazard**

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. Fortified structures located in seismic designated areas must be designed for ground motions that are **20% higher** than those used for design in the IRC 2006 or ASCE 07-05. See **Fortified** Builders Guide, Section 8 for Seismic Design Category determination.

IRC-2006 Seismic Design Category: _____

IRC-2006 Seismic Design Category is A, B or C, or S_{DS} is less than 0.50g: YES NO

If YES---**Fortified** seismic criteria not applicable. Submit checklist, but do not answer remaining questions.

If NO, proceed with checklist:

If S_{DS} is equal to or greater than 0.50g, increase S_{DS} by 20% to determine **Fortified** Seismic Design Category.

If Seismic Design Category E: Calculated S_{DS} = _____

then:

Fortified Design S_{DS} = Calculated S_{DS} x 1.20 = _____

Complete calculations will provided to IBHS: YES

2. The project will comply with all local, state and federal guidelines concerning safe distance from established and mapped fault zones: YES
3. To specifically meet **Fortified** seismic criteria, the design will be prepared and sealed by a Registered Engineer: YES
4. The design referenced above will be provided to IBHS: YES
5. 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
6. Is the structure located in an area designated at risk of either liquefaction or ground failure?
YES NO
If YES---the foundation will be designed by a professional Structural Engineer: YES
7. A Geotechnical soil report will be provided: YES
8. Structure will meet IRC prescriptive criteria and building limitations outlined in the **Fortified** Builders Guide, Section 8. YES NO
If NO---structure will be designed by a licensed professional engineer (structural specialty) to resist ground motion outlined above: YES
9. Complete elevation drawings and wall construction details, including complete load path and shear transfer will be submitted to IBHS: YES

10. Complete foundation plans will be submitted to IBHS: YES
11. Multistory structures---continuous paths will be provided to pass the upper floor shear forces down to foundation: YES
12. Masonry chimneys will be connected to structural members of exterior walls and provided with adequate restraint for the expected load: YES

NOTE: Chimneys must not extend more than 24" above the rooftop.
13. All mechanical equipment and associated pipes and conduit will be restrained with appropriate anchors to prevent damage under the design basis loads: YES
14. Natural pipes and gas propane lines will be flexible connections and have automatic shut off valves: YES
15. Water heaters will be attached to structural members such as wall studs within a load bearing wall: YES
16. Glazing will be tempered glass or a safety film applied on the interior surface: YES

END OF CHECKLIST