



SC1 - FORTIFIED Home™ - Silver Compliance Form for Engineer

This form is intended to document compliance of gable ends, chimneys and attached structures with the requirements outlined in sections 5.5, 5.7 and 5.8 of the FORTIFIED Home 2020 Standard. All sections must be completed and signed by the professional engineer responsible for design(s). Form not valid if all sections are not filled out, initialed and/or signed by professional engineer. IBHS does not take responsibility for the design of these elements.

1. General Information (complete a thru g):

- a. FORTIFIED ID: _____ (Obtain from homeowner or FORTIFIED Evaluator)
- b. Homeowner’s Name: _____
- c. Property Street Address: _____
- d. City: _____
- e. State: _____
- f. ZIP: _____
- g. County: _____

2. Site Design Information (complete a thru e):

- a. Building Code and Edition: _____
- b. Design Wind Speed: _____ per ASCE: 7-05 7-10 7-16 (Check One)
- c. Exposure Category: B C D
- d. Mean Roof Height: _____
- e. Number of Stories: _____

3. Gable Section

Engineer shall complete items a thru c in this section for all engineered gable ends over 3 ft tall.

Check here if there are NO engineered gable ends over 3 ft tall (skip to Section 4)

- a. For gable end walls that are **balloon framed** (continuous from the floor/foundation to the roof deck):
 - i. I confirm that balloon framed gable end wall studs and connections to the floor/foundation and roof/ceiling diaphragms are designed to resist appropriate positive and negative lateral wind loads and wind uplift.
 - ii. I understand that for gable end overhangs over 9 inches long (for ASCE 7-16) or 12 inches long (for ASCE 7-10 or prior) that outlooker framing is required per section 5.5.3 of the 2020 FORTIFIED Home Standard.
 - iii. I confirm that any gable end overhang framing has been designed to resist the appropriate wind loads.
 - iv. **OR Check here if there are no balloon framed gable end walls.**
- b. For gable ends walls that are **platform framed** (Not continuous from the floor/foundation to the roof deck; i.e. triangular gable end wall sitting on top of a ceiling height wall below):
 - i. I confirm that attachments at top of gables are designed to brace the gable for the required out of plane wind load from both positive and negative pressures.

Describe how gable is connected/braced at top (select all that apply):

- Connected directly to roof sheathing diaphragm
- Attached to properly designed outlooker framing with metal connectors (not nails)
- Attached to properly designed horizontal bracing, compression blocking and tension connectors
- Other. Describe: _____



SC1 - FORTIFIED Home™ - Silver Compliance Form for Engineer

- ii. I understand that for gable end overhangs over 9 inches long (for ASCE 7-16) or 12 inches long (for ASCE 7-10 or prior) that outlooker framing is required per section 5.5.3 of the 2020 FORTIFIED Home Standard.
- iii. I confirm that any gable end overhang framing has been designed to resist the appropriate wind loads.
- iv. I confirm that attachments at the bottom of gable to top of wall are designed to brace the gable for out of plane wind load from both positive and negative pressures.

Describe how gable is connected/braced at bottom (select all that apply):

- Connected to ceiling diaphragm (roof framing members behind gable must have the same bottom profile shape and ceiling must be continuous to wall; i.e. no flat bottom gable ends with scissor trusses behind it)
- Attached to top of wall with metal clip connectors at regular spacing
- Attached to properly designed horizontal bracing, compression blocking and tensions connectors to wall below
- Other. Describe:

- ii. I confirm that gable studs have been designed to resist out of plane wind loads from both positive and negative pressures:

Describe how the gable studs are braced (select all that apply):

- Studs are designed for the appropriate out of plane load and do not require additional bracing
- Braced by retrofit studs connected to horizontal bracing/compression blocking with tension straps
- Other. Describe:

- vi. **OR Check here if there are no platform framed gable end walls.**

- c. I confirm that all gable end framing, connection and bracing requirements and specifications have been provided to the installing contractor in signed and sealed structural drawings/details/letters.

4. Chimney Section

Engineer shall complete items a thru c in this section for all engineered chimneys.

Check here if there are NO engineered chimneys (skip to Section 5)

- a. I confirm that chimney framing and connections to structure have been designed for all appropriate loads and load combinations for the site conditions and that overturning stability and base shear requirement have been analyzed.
- b. I confirm that the roof support members have been designed or evaluated to support all loads imposed due to chimney including overturning due to wind.
- c. I confirm that all framing and connection requirements including anchorage to the supporting structure have been provided to the installing contractor in signed and sealed structural drawings/details/letters.



SC1 - FORTIFIED Home™ - Silver Compliance Form for Engineer

5. Attached Structures Section

An attached structure is defined as an outdoor or semi-outdoor space with a solid roof that is attached to an exterior wall or to the roof structure of the main building.

Check here if there are NO attached structures designed by the engineer (skip to section 6)

Check here if the home is pursuing Gold designation (skip to section 6)

NOTE:

- *If the engineer is completing a “[Gold Compliance Form for Engineer](#)” then attached structures design information shall be entered in the Gold form.*
- *If the engineer designed the attached structure(s) but will NOT be completing a “[Gold Compliance Form for Engineer](#)”, then engineer must complete a thru e below.*
- *If the engineer did NOT design the attached structure(s) then skip to section 6*

- a. I confirm that all attached structures have been designed for all appropriate loads and load combinations including wind loads.
- b. I confirm that all attached structure connections have positive uplift connectors specified (gravity only connections are NOT permitted).
- c. For **single level attached structures**:
- I understand that nail-only connections for roof, beam, and column connections are not permitted and did not specify them.
- I confirm roof framing is directly connected to roof beam with metal connectors.
- I confirm roof beam is directly connected to columns with metal connectors or a minimum of (2) bolts.
- I confirm columns are directly connected to foundation with metal connectors or a minimum of (2) bolts.
- OR check here if there are no single level attached structures**
- d. For **multi-level attached structures** (multi-level porch with middle floor level):
- I understand that nail-only connections for roof, beam, and column connections are not permitted and did not specify them.
- I confirm roof framing is directly connected to roof beams with metal connectors.
- I confirm roof beams are directly connected to upper level columns with metal connectors or a minimum of (2) bolts.
- I confirm upper level columns are connected directly to one of the following at their bottom:
- i. Lower level columns with metal connectors or (2) bolts min.
 - ii. Middle floor structural support beams with metal connectors or (2) bolts min.
- I confirm middle floor beams are attached to lower level columns/pilings/piers with metal connectors or a minimum of (2) bolts.
- I confirm lower level columns are directly connected to foundation with metal connectors or a minimum of (2) bolts, or have proper embedment depth/footing specified.
- OR check here if there are no multi-level attached structures**
- e. Check here to confirm that all framing and connection requirements for attached structure(s) have been provided to the installing contractor in signed and sealed structural drawings/details/letters.



SC1 - FORTIFIED Home™ - Silver Compliance Form for Engineer

6. Certification

I certify that I am a licensed professional engineer in the state of _____.

I verify that, to the best of my knowledge, all applicable engineering requirements listed above have been incorporated in the design details of the home located at:

Furthermore, I understand that any person who makes a false statement or misrepresentation, and any other person knowingly, with an intent to injure, defraud, or deceive, who assists, abets, solicits, or conspires with such person to make a false statement or misrepresentation may be subject to both criminal and/or civil penalties. By completion of this Affidavit, the undersigned does not make a health or safety certification.

Signature: _____ Date: _____

Printed Name: _____

Company: _____

Phone Number: _____

Address: _____

City: _____

State: _____ ZIP: _____

License or Registration Number: _____

Affix Seal: