

Make your Logix XtraComfort™ Home MORE EARTHQUAKE RESILIENT

1

GENERAL

- Contact a building official to confirm your seismic zone. Regions that are more earthquake prone have additional requirements per the local building code.
- Follow your local building code for seismic requirements. Also use a structural engineer, when necessary, to design your Logix home or building (and all the connections) to the appropriate seismic zone for your area.

2

WALLS

- Logix reinforced concrete walls are easily built to take seismic loads. They are also good energy absorbers during earthquakes provided the connections to the roof, floors and foundation are well designed and integrated. By tying the Logix home together from roof to foundation, you provide a continuous load path that ensures the structural framework of the house can withstand earthquake loads as it transfers forces to the foundation.
- Logix-built shear walls are commonly designed to withstand sideways loading caused by earthquakes.
- Don't use brick in high seismic zones as it can collapse or crack. If using brick, tie it back to the concrete.

3

FOUNDATION

- Build a deep Logix foundation, if possible.

4

ROOF

- Ensure the roof is securely tied to the walls to prevent collapse during an earthquake event.
- Wood-framed roof trusses should be strapped to anchored sill plates. Steel trusses should be anchored to the Logix concrete core.
- Roof sill plates should be bolted to the Logix concrete core.
- The roof should be of lightweight material, if possible.

5

FLOORS & DECKS

- Ensure floors and decks are securely tied to the walls to prevent collapse during an earthquake event.
- For wood floors, ledgers should be anchored to the Logix concrete core with ICF ledger connectors or anchor bolts. The wood joists must be securely tied to the ledger.
- Suspended slabs should be properly designed and detailed for the wall/floor connection.
- For steel floor joists, the bearing must be supported in the Logix concrete wall.
- Decks must be securely anchored to the Logix concrete core with anchor bolts.
- The concrete topping should be composite to prevent movement.

6

SERVICES

- All services such as HVAC, hot water tank, heavy appliances and even heavy fixtures should be tied down, anchored or strapped to a concrete wall to minimize damage and injury.
- The gas line shut-off valve should be easily accessible.
- Use flexible water and gas pipe lines.



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The suggestions in this document are intended to be thought-starters only. Be sure to obtain the approval of your local building department, your designers and builder before implementing any suggestion contained herein. Logix Insulated Concrete Forms Ltd. does not warrant or in any way guarantee the successful performance of any suggestion contained in this document.

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