

Emmanuel Tuombe, P.E.
5796 Shelby Oaks Drive, Suite 16 A
Memphis, TN 38134
Phone: 901-340-3011
E-mail: etuombe@abesengineering.com

Date: 02/12/2018

Project: Container House

Project Owner: Luke Iseman

The Container House has been analyzed and the structure meets the 2016 California Building Code.

Summary of the Analysis:

CODES, STANDARDS & REFERENCES

2016 California Building Standards Code (CBC 2016)
American Society of Civil Engineers (ASCE 7-10)
United States Geological Survey (USGS)
American Concrete Institute (ACI 318)
American Institute of Steel Construction (AISC-ASD)

DESIGN LOAD

- Dead Load: Container self weight
- Roof Live Load: 300 psf
- Floor Live Load: 50 psf
- Basic Wind Speed, V: 80 mph
- Building Classification : II
- Exposure Category Clients: D
- Importance Factor, I: 1
- Spectral Response Accelerator, Ss: 2.07135
- Spectral Response Accelerator, S1: 0.9797
- Period, TL: 8
- Site Class : D
- Site Coefficient, Fa: 1
- Site Coefficient, Fv: 1.5
- Response Modification Factor, Rx: 8
- Response Modification Factor, Rz: 8

For more detailed calculation, see the structural calculation report.