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CodeMaster - Seismic Design (2012 IBC / ASCE 7-10)

CodeMaster

SSEA
SEISMIC DESIGN
2012 IBC
ASCE 7-10

Seismic Design

The CodeMaster provides the proven step-by-step methodology for designing a structure according to the provisions of the 2012 IBC and ASCE 7-10. It is the only software program that provides the user with the ability to design a structure according to the 2012 IBC and ASCE 7-10. The user can design a structure according to the 2012 IBC and ASCE 7-10. The user can design a structure according to the 2012 IBC and ASCE 7-10.

The seismic design provisions of the 2012 IBC are based on those of ASCE 7-10 and make a number of changes to the provisions of ASCE 7-10. The user can design a structure according to the 2012 IBC and ASCE 7-10. The user can design a structure according to the 2012 IBC and ASCE 7-10.




ASCE 7-10 2012 International Building Code

SECRETS OF THE CODEMASTER: Why is there so much interest in CodeMaster? The user can design a structure according to the 2012 IBC and ASCE 7-10. The user can design a structure according to the 2012 IBC and ASCE 7-10. The user can design a structure according to the 2012 IBC and ASCE 7-10.

STEP 1: Determine S_a and S_d .

This first step is essential in determining the design spectral maximum ground acceleration (S_a) and spectral response acceleration at short periods (S_d) and at long periods (S_l). These values are determined from the following values:

- 2012 IBC Figures 16.13.1.1 through 16.13.1.3 or ASCE 7-10 Figures 16.13.1.1 through 16.13.1.3. For these and for other values not specified, see the 2012 IBC Section 16.13.1.1 and 16.13.1.2 or ASCE 7-10 Section 16.13.1.1 and 16.13.1.2.
- Web-based calculator available at the United States Geological Survey (USGS) website: <http://earthquake.usgs.gov/earthquake/hazardtools/acceleration/>. By using the above website, the user can determine the spectral acceleration at the location of the structure.

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Structures & Codes Institute

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STEP 2: Determine if Structure is Exempt from Seismic Requirements

2012 IBC Section 16.13.1 allows for buildings that are exempt from compliance with the 2012 IBC seismic design requirements.

Exempt buildings are not for: hotels, hospitals, schools, day-care centers, etc. See ASCE 7-10 Section 16.13.1.1 for more information.

Decision No. 1:



Areas of U.S. with $S_a \leq 0.5g$ (shown in green)

To determine if your structure is exempt, see the 2012 IBC Section 16.13.1.1.

Decision No. 2:

For this step, the IBC has not been determined. However, it has been determined that the user can design a structure according to the 2012 IBC and ASCE 7-10.

Decision No. 3:

Continental systems and structures complying with 2012 IBC Section 16.13.1.1 are exempt from the 2012 IBC seismic design requirements.

Decision No. 4:

Industrial storage structures intended for industrial hazard categories are not exempt from the 2012 IBC Section 16.13.1.1.

Decision No. 5:

Industrial bridges, electrical transmission towers, hydraulic structures, tunnel shafts and other structures, nuclear reactors and other safety-related structures are not exempt from the 2012 IBC Section 16.13.1.1.

Decision No. 6:

Structures located in areas with $S_a \leq 0.5g$ and $S_d \leq 0.25g$ need not comply with IBC requirements based on ASCE 7-10 Section 16.13.1.1.



Areas of U.S. with $S_a \leq 0.5g$ and $S_d \leq 0.25g$ (shown in green)

To determine if your structure is exempt, see the 2012 IBC Section 16.13.1.1.

For more information, see ASCE 7-10 Sections 16.13.1.1 and 16.13.1.2.



Synopsis

This 6-page laminated reference guide provides an easy-to-follow 11-step procedure for seismic design in accordance with the 2012 IBC and ASCE 7-10, with emphasis on the seismic design of a typical one-to-three story building. Illustrations are provided for many of the difficult to understand requirements. Subjects addressed include determination of mapped spectral response accelerations; consideration of exceptions to the seismic code requirements; Seismic Design Category determination; consideration of plan and vertical structural irregularities; determination of seismic base shear, redundancy coefficient and seismic load effects; and compliance with drift control requirements.

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