



Planning & Development Services

Boise City Hall, 2nd Floor
150 N. Capitol Boulevard
P. O. Box 500
Boise, Idaho 83701-0500

Phone: 208/384-3802
Fax: 208/384-3867
TDD/TTY: 800/377-3529
Website: www.cityofboise.org/pds

Currently Enforced Building Codes

Codes are applied and enforced to any project submitted after January 1, 2011.

- [2009 International Building Code](#)
- [2009 International Residential Code, parts I through IV and IX, Appendix Chapter G](#)
- [2009 International Energy Conservation Code](#)
- 1997 Uniform Building Code, Appendix Chapter 33 only
- 2003 Uniform Plumbing Code (Including Chapter 13 – Medical Gas)
- 2008 National Electric Code
- [2009 International Fire Code](#)
- [International Code Council's Free Online Library](http://bit.ly/ICC-Library) (<http://bit.ly/ICC-Library>)

Mechanical Codes

Commercial projects and all residential projects with more than two units:

- [2009 International Mechanical Code and Appendix A](#)
- [2009 International Fuel Gas Code and Appendices A, B, C, and D](#)

Residential projects with one or two family dwellings:

- [2009 International Residential Code \(parts V, VI and Appendices A, B, C, and D\)](#)

2009 IBC Basic Design Criteria

- **Ground Snow Load = 20 psf (p_g)** (further local amendment for snow loads shall be determined per Section 7 of ASCE 7, but the design roof load shall not be less than a uniform load of 25 psf)
- **Basic Wind Speed (3 second gust) = 90 mph** (2009 IBC Figure 1609. Exposure category per IBC Sec. 1609.4)
- **Frost Depth = 24 inches** (local amendment to IBC)
- **Rainfall Rate = 1 inch per hour** (minimum per 2003 UPC)
- **Earthquake Loads** (IBC Section 1613)

Use this basic procedure to determine the Seismic Design Category:

Step 1: Determine the mapped maximum considered earthquake spectral response acceleration at short periods (S_s), and at 1-second period (S_1), for the site location from IBC Figures 1613.5(1) through 1613.5(14).

Step 2: Determine the (soil) site class in accordance with IBC Table 1613.5.2.

Step 3: Determine the site coefficients F_a and F_v from IBC Tables 1613.5.3(1) and 1613.5.3(2), respectively.

Step 4: Determine the 5-percent damped design spectral response acceleration at short periods (S_{DS}) and at 1-second period (S_{D1}) as follows:

$$S_{DS} = (2/3)(S_{MS})$$

$$S_{D1} = (2/3)(S_{M1})$$

Step 5: Determine the seismic design category as prescribed by IBC Tables 1613.5.6(1) and 1613.5.6(2). The highest of the seismic design categories from the two tables is the category assigned to the building, unless Section 1613.5.6.1 is applicable.