



**Municipal Services Agency
Building Inspection**
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Sacramento County Building Design Criteria

Structural plan review (and design) for the jurisdiction of Sacramento County will be based on the 2007 CBC, Volume 2.

REFERENCED STRUCTURAL STANDARDS:

Standards that are referenced in various sections of the 2007 CBC are listed in Volume II, Chapter 35, pages 585 through 605. The most commonly used references are: ASCE/SEI 7-05 (Minimum design loads), ACI 318-05/318R-05 (Concrete), 2005 NDS (Wood), AISC Steel Construction Manual- 13th edition (Steel) and ACI 530-05/ASCE 5-05/TMS 402-5 (Masonry).

SNOW LOADS:

Per 1608.2, 2007 CBC, and Figure 7-1, ASCE 7-05, The Pg factor for snow loads equal 0, thus eliminating snow load requirements in the County of Sacramento.

WIND REQUIREMENTS:

Wind design will be based on the requirements of section 1609, 2007 CBC and chapter 6 of ASCE/SEI 7-05. The basic wind speed of 85 mph will be used in the County and is based on Figure 1609, 2007 CBC. The exposure category (B, C or D) will be based on description per section 1609.4, 2007 CBC, and must be determined by the design architect or engineer. A simplified wind design procedure is scheduled to be included as an amendment to the 2007 CBC effective after July 1, 2009.

SEISMIC REQUIREMENTS:

Seismic design is based on the requirements of Section 1613, 2007 CBC, with design required to resist the effects of earthquake motions in accordance with ASCE 7-05, excluding Chapter 14 and Appendix IIA.

FOUNDATION & SOILS INVESTIGATIONS:

Foundation and soils investigations are based on the requirements of Chapter 18, 2007 CBC. In general, when a designed structure is determined to be in Seismic Design Category (SDC) C, an investigation is required per section 1802.2.6, unless satisfactory data from adjacent areas is available that demonstrates one is not necessary for any of the conditions in section 1802.2.1 through 1802.2.6. When a designed structure is determined to be in SDC D, E or F, an investigation is required per section 1802.2.7.

Exception: An investigation is not required for a designed one or two story wood-frame building with a total floor area equal to or less than 4000 square feet, or for a single story light-steel-frame building of Type V construction with a floor area equal to or less than 4000 square feet, provided the strength or compressibility of the soil are not in doubt, expansive soils are not likely and allowable foundation and lateral pressures used in the design do not exceed those given for a Class 5 material per Table 1804.2, 2007 CBC.