



**City of El Cajon**  
**Building and Fire Safety Division**  
200 Civic Center Way  
El Cajon, CA 92020  
Phone: (619) 441-1726

## **BUILDING DESIGN CRITERIA**

The design criteria listed below for building projects within the City of El Cajon are provided as general guidelines. They are not intended to be used in place of project specific information as may be supplied by a licensed design professional or geotechnical engineer.

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### **Applicable Codes:**

- 2010 California Administrative Code
- 2010 California Building Code (including access requirements)
- 2010 California Residential Code
- 2010 California Green Building Standards Code
- 2010 California Fire Code
- 2010 California Energy Code
- 2010 California Electrical Code
- 2010 California Plumbing Code
- 2010 California Mechanical Code

### **Seismic Design:**

- Occupancy Category I, II or III structures located where the mapped spectral response acceleration parameter at 1-second period,  $S_1$  is greater than or equal to 0.75 will be Seismic Category E. Occupancy Category IV structures located where the mapped spectral acceleration parameter at 1-second period  $S_1$  is greater than or equal to 0.75 will be Seismic Category F. All other structures shall be assigned to a seismic design category based on their occupancy category and the design spectral response acceleration coefficients,  $S_{DS}$  and  $S_{D1}$  determined in accordance with CBC section 1613.5.4.
- For structures designed under the 2010 CRC seismic design category  $D_2$  is assumed unless substantiated by analysis (2010 CRC 301.2.2.1).
- Use site soil **Class D** unless otherwise indicated in a geotechnical report specific to the site. (2010 CBC Section 1613.5.2)

### **Wind Design:**

- The minimum **Basic Wind Speed at any location is 85** miles per hour. (2010 CBC Figure 1609, Basic Wind Speed, 3-second gust, 2010 CRC Figure R301.2(4)). Surface roughness category will generally be category B, but could be category C depending on site specific conditions. The wind design shall comply with **Exposure B or C** requirements, depending on site specific conditions.

### **Climate Zone:**

- For Title 24 Energy Efficiency Design: Zone 10.

### **High Fire Severity Zone:**

- See the map on the reverse side of this document for general locations of high fire severity zones. The map may also be viewed online on the City's website at [www.ci.el-cajon.ca.us](http://www.ci.el-cajon.ca.us).