



# Town of Paradise

## Development Services

5555 Skyway Paradise CA 95969  
(530) 872-6291 Fax (530)877-5059

[www.townofparadise.com](http://www.townofparadise.com)

## Building and Structural Design Criteria

The purpose of this guideline is to provide a summary of the code adoption and design criteria applicable to the Town of Paradise. The design criteria shall be used as the basis for building and structural design of structures proposed in this jurisdiction.

### **Building Design Criteria**

- 2013 California Building Code (CBC)<sup>a</sup>
- 2013 California Residential Code (CRC)<sup>a</sup> (For detached one and two-family dwelling, townhouse not more than three stores above grade in height)
- 2013 California Mechanical Code (CMC)
- 2013 California Electrical Code (CEC)
- 2013 California Plumbing Code (CPC)
- 2013 California Energy Code (CEnC)
- 2013 California Fire Code (CFC)
- Town of Paradise Municipal Code (PMC)

### **Structural Design Criteria:**

- **Wind Speed:** 85 mph (3 second gust)
- **Wind Exposure Category:** B

**Seismic Design Category:** D for 2013 CBC, D<sub>0</sub> for 2013 CRC

**Roof Snow loads:** Minimum design snow load and roof live load shall be 20 pounds per square foot below elevation of 1,800 feet and thirty (30) pounds per square foot at 1,800 feet and elevations above.

### **Foundation Design Parameters:**

The following foundation design parameters shall be used unless higher values are justified by a soils report:

- **Footing**
  - Allowable Soil Bearing Pressure = 1500 psf
  - Allowable Lateral Bearing Pressure = 100 psf/ft below natural grade
  - Allowable Sliding Resistance = (130 psf x D x A), not to exceed (0.5 x DL)
  - D = footing depth below natural grade
  - A = footing/soil contact area
  - DL = dead load on footing
- **Pier/Poles**
  - Allowable Frictional Resistance for Piers = 250 psf
  - Allowable Lateral Bearing Pressure for Isolated Poles (for uses such as flagpoles, signs and fences that are not adversely affected by a 0.5" motion at the ground surface due to short-term lateral load) = 266 psf/ft

### **Energy Design Criteria:**

- **Climate Zone:** 11
- a. The Town of Paradise is located *Very-High Fire Hazard Severity Zone* and the requirements for *Materials and Construction Methods for Exterior Wildfire Exposure* shall apply per 2013 CBC Chapter 7A and 2013 CRC section R327.