



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

- 2022 California Building Code (CBC)
- 2022 California Residential Code (CRC) (For detached one and two-family dwelling, townhouse not more than three stores above grade in height)
- 2022 California Mechanical Code (CMC)
- 2022 California Electrical Code (CEC)
- 2022 California Plumbing Code (CPC)
- 2022 California Energy Code (CEnc)
- 2022 California Fire Code (CFC)
- Town of Paradise Municipal Code (PMC)

Structural Design Criteria:

- Wind Speed: 95 mph (3 second gust)
- Wind Exposure Category: C
- Seismic Design Category: D for 2022 CBC, D⁰ for 2022 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 = $(130 \text{ psf} \times D \times A)$, not to exceed $(0.5 \times DL)$
- 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

WUI Wildland Urban Interface:

- 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 2022 CBC Chapter 7A and 2022 CRC section R337.