



Calaveras County

Building Department

(209) 754-6390
(209) 754-6396 fax

Code Compliance

(209) 754-66326
(209) 754-6328 fax

Website: www.co.calaveras.ca.us

Design Criteria:

- Seismic – 2007 CBC, Site Class D
- Basic wind speed 85 mph, Exposure B
- Snow loads shall be determined in accordance with 2007 CBC, Section 1608.1.
- Allowable Foundation & Lateral Pressure per 2007 CBC, Table 1804.2, Class 4 Material, Allowable Bearing 2000 psf
- Maximum rainfall (3" per hour)
- Applicable Codes: 2007 California Building / Mechanical / Plumbing / Electrical / Fire Code, & 2005 California Energy Standards
- T-24 Climate Zone 12 (Below 3000 ft) & Zone 16 (3000 ft and above)
- Fire Hazard Severity Zones in State Responsibility Area – High and Very High

Determine building site elevation from county web site at www.calaveras.ca.us

- Click on maps on left side of screen.
- Click on [Calaveras County GIS](#).
- Click on [Parcel Information Retrieval](#).
- Click on select layers.
- Image Layers – Click on USGS Topos
- Click on Refresh Map
- Click on Parcel
- Enter Parcel Number with no dashes, nine digit number required must be shown with the leading zeros. Example 042013029
- Click on submit.
- Click on parcel information.
- Parcel in question is marked in gold.
- Use map tools: Pan, Zoom In, Zoom Out, Zoom Last, & Zoom Full.

Other Web Sites for helpful design information

<http://osfm.fire.ca.gov/strucfireengineer/pdf/bml/wuiproducts.pdf>

Wildland Urban Interface (WUI) Products
California Department of Forestry and Fire Protection
Office of the State Fire Marshall

<http://earthquake.usgs.gov/research/hazmaps/design/>

Seismic design parameters website allows users to input latitude and longitude (or zip code) to obtain Ss and S1 values, soils modified Sms and Sm1 values, and site design response spectrum.

SNOW LOADS FROM TABLES MAY BE INTERPOLATED BETWEEN ELEVATIONS USING STRAIGHT LINE INTERPOLATION.

*All Structures located above an elevation of 3201 feet (50 psf snow load) are required to have drawings and structural calculations for the vertical design, stamped and signed by a California Licensed Architect, Registered Civil, or Structural Engineer.

**All Structures located above an elevation of 5401 feet (144 psf snow load) are required to have drawings and structural calculations for the vertical AND lateral design, stamped and signed by California Licensed Architect, Registered Civil, or Structural Engineer.

Ground Snow Load Chart:

Elevation		Snow Load (per square foot)	LDF	Engineering Req'd	Seismic Snow Load Reduction
From	To				
0	1800	16	1.25		100%
1801	2000	20	1.25		100%
2001	2100	22	1.25		100%
2101	2200	24	1.25		100%
2201	2400	28	1.25		100%
2401	2600	32	1.25		80%
2601	2800	36	1.25		80%
2801	3000	40	1.25		80%
3001	3200	48	1.25		80%
3201	3300	50	1.15	*Vertical Calcs Req'd	80%
3301	3400	56	1.15	"	80%
3401	3500	60	1.15	"	80%
3501	3600	64	1.15	"	80%
3601	3800	72	1.15	"	80%
3801	4000	80	1.15	"	80%
4001	4200	88	1.15	"	80%
4201	4400	96	1.15	"	80%
4401	4600	104	1.15	"	80%
4601	4800	112	1.15	"	80%
4801	5000	120	1.15	"	80%
5001	5200	128	1.15	"	80%
5201	5400	136	1.15	"	80%
5401	5600	144	1.15	**Vertical & Lateral Calcs Req'd	55%
5601	5800	152	1.15	"	55%
5801	6000	160	1.15	"	55%
6001	6400	168	1.15	"	55%
6201	6400	176	1.15	"	55%
6401	6600	184	1.15	"	55%
6601	6800	192	1.15	"	55%
6801	7000	200	1.15	"	55%
7001	7200	208	1.15	"	55%
7201	7400	216	1.15	"	55%
7401	7600	224	1.15	"	55%
7601	7800	232	1.15	"	55%
7801	8000	240	1.15	"	55%