



Mariposa County Building Department

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Climatic and Geographic Design Criteria For Mariposa County CRC R301.2

Mariposa County is located in the foothills and mountains of the Central Sierra Nevada mountain range. Building elevations range from 1,000 feet AGL to above 6,000 feet AGL. Temperatures, soil conditions, seismic activity and wind design criteria vary widely. All of Mariposa County is in a Cal Fire, Wildland Urban Interface (W.U.I.) area. There are two energy zones associated with Mariposa County, zone 12 or zone 16. Geo Technical soils reports and building site compaction testing are generally required but may be waived in simple areas with local knowledge and a waiver request.

NOTE: It is the sole responsibility of the project’s designer or engineer to verify all the information provided on this page and apply it to the specific project site. Please do not put on your plans “per the Mariposa County Building Department”. The ultimate decision and responsibility to research and use this information properly is the project designer or engineer.

Below is some supplemental information relative to the California Residential Code Table R301.2 (1).

TABLE R301.2(1)													
CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA													
Ground Snow Load	WIND DESIGN				SEISMIC DESIGN CATEGORY	SUBJECT TO DAMAGE FROM			WINTER DESIGN TEMP	ICE BARRIER UNDERLAYMENT REQUIRED	FLOOD HAZARDS	AIR FREEZING INDEX	MEAN ANNUAL TEMP
	Speed (mph)	Topographic effects	Special wind region	Wind-borne debris zone		Weathering	Frost line depth	Termite					
1	2	3	4	5	6	7	8	9	10	11	12	13	14

1. Ground snow load in Mariposa County is generally determined by elevation. Please call the office with an APN# and address and we can provide you with an approximate ground snow load. Per CRC R301.2.3 any site that has a ground snow load greater than 70 lbs. per square foot shall require engineering.
2. Basic wind speed from CRC Table R301.2.1.3 is 110/85 and is suitable for many areas in Mariposa County. Many parts of Mariposa County are in the special wind design area. Special care is required in assigning a design wind speed to the site. Additionally the wind exposure category requirements from CRC R301.2.1.4 is site specific and shall be determined by the project designer or engineer for that specific project site.
3. Topographic effects may result in areas adjacent to our lakes or large mountain valleys. Research and assignment of values is the designer or engineer’s responsibility.
4. The Eastern part of Mariposa County is in the special wind region per CRC figure R301.2 (4) A. Designers and engineers please plan accordingly.

5. There are no known Windborne debris zones in Mariposa County at this time.
6. Basically Mariposa County has two seismic design category zones "C" and "D0". Please make sure you're designing to the correct zone.
7. Weathering may be a factor at higher elevations. The designer and/or engineer are required to research this one.
8. Frost line, as with weathering is a site specific call and is the responsibility of the designer or engineer.
9. Please consider most of Mariposa County termite active.
10. Winter design temperature is per the California Energy Code zone 12 or 16 for Mariposa County.
11. Ice barrier roofing underlayment is required in the upper elevations. This applies to re-roofing also.
12. Mariposa County does not officially participate in the FEMA's flood water program. However all construction in proximity to possible flood hazards must meet FEMA flood hazard construction specifications at the minimum. This generally involves retaining an engineer.
13. The air freezing index is addressed in the California Energy Code.
14. The mean annual temperature is also addressed in the California Energy Code and its design parameter requirements.

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