



Director Mike Lara

RIVERSIDE COUNTY BUILDING DESIGN DATA

SEISMIC DESIGN

The seismic design values for buildings can be obtained from:

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

DESIGN WIND SPEED (3 Seconds Gust: ASCE 7-05)

100 MPH : Cabazon, Desert Hot Springs, Garnet, Mira Loma, Hidden Springs, Painted Hills, Snow Creek Village, Thousand Palms, West Palm Springs, White Water, Windy Point.

120 MPH: For Wind Generators (WECS)

85 MPH: All other areas

GROUND SNOW LOAD

Ground snow load, P_g , shall be used to determine design snow loads for roofs in San Jacinto mountain area where ground elevation is 3500 feet AMSL (Above Mean Sea Level) or higher. Ground snow load for sites at 3500 feet AMSL shall be a minimum of 30 psf and increased 1.6 psf for every 100 feet of elevation increase to a maximum of 90 psf. This can be represented by the following equation:

$$P_g \text{ (PSF)} = 30 + 1.6 * (\text{EL}-3500)/100 \quad \text{but needs not to exceed 90 psf.}$$

EL (FT): Site Ground Elevation of 3500 feet AMSL or higher

Where Flat Roof Snow Load exceeds 30 PSF, 20% (of Flat Roof Snow Load) shall be combined with seismic loads. See Section 1605.3.2 exceptions #2, of the 2007 CBC.