



City of Adelanto
Building and Safety Department
Design Loads and Special Considerations

****All commercial and 3-story or taller residential buildings and structures must be designed by a licensed Civil or Structural Engineer or Architect.**

Adopted Uniform Codes

- A. California Building Code Volumes 1 & 2, and Appendices Chapter A, C, G, I & J of Volume 2, 2019 edition;
- B. California Residential Code, 2019 edition;
- C. California Electrical Code 2019 edition;
- D. California Mechanical Code and Appendices Chapters A, B, C, and D, 2019 edition;
- E. California Plumbing Code and Appendices Chapters A, B, D, E, F, K, and L, 2019 edition;
- F. California Energy Code 2019 edition;
- G. California Historical Building Code 2019 edition;
- H. California Fire Code and Appendices B, C, E, F, G, H and San Bernardino County Fire Department Amendments, 2019 edition;
- I. California Historical Building Code 2019 edition;
- J. California Green Building Standards Code 2019 edition;
- K. California Referenced Standards Code 2019 edition;
- L. California Administrative Code, 2019 edition;
- M. International Property Maintenance Code. 2018 Edition
- N. Uniform Code for the Abatement of Dangerous Buildings, 1997 edition;
- O. City of Adelanto Municipal Code

Soils Investigation/Report Requirements required for:

- 1. All new single-family residential, multi-family residential, commercial and industrial buildings.
- 2. An addition to a commercial or industrial buildings.

A soils investigation is not required for:

- 1. A residential room addition, accessory dwelling unit (ADU) or non-habitable accessory structure where the allowable foundation and lateral pressure comply with the Category 5 Material Classification Soil Properties listed in CBC Table 1806.2 and not subject to potential liquefaction.

Wind – Residential & Solar (ASCE 7-10- CRC)

Design wind pressure is 110 miles per hour (mph), Exposure C (ASD)

Wind – Nonresidential (ASCE 7-16 CBC)

<u>Risk Category:</u>	<u>Wind Load: (Ultimate)</u>
I	90 mph Exposure C
II	96 mph Exposure C
III & IV	106 mph Exposure C

(Risk Categories are found within CBC Table 1604.5)

Seismic

Site Accelerations S_{DS} and S_{D1} shall be site specific and be determined per USGS Design Maps utilizing 2018 IBC or ASCE 7-16 values using Site Class D.

<http://earthquake.usgs.gov/designmaps/us/application.php>

Snow Loads

Ground: 5 PSF

Rain

15 min: 2.31 in./h

60 min: 0.97 in./h

Climate Zone

14

Use the ASCE 7 Hazard Tool for more site-specific design considerations at <https://asce7hazardtool.online/>

Please contact the City of Adelanto Building and Safety Department for any questions regarding required design criteria.

City of Adelanto
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