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 <u>licensed</u> Civil or Structural Engineer or Architect.**

<u>Adopted Uniform Codes</u>

A. California Building Code Volumes 1 & 2 of Volume 2, 2025 edition;
B. California Residential Code, 2025 edition;
C. California Electrical Code 2025 edition;
D. California Mechanical Code 2025 edition;
E. California Plumbing Code 2025 edition;
F. California Energy Code 2025 edition;
G. California Historical Building Code 2025 edition;
H. California Fire Code and San Bernardino County Fire Department Amendments, 2025 edition;
I. California Historical Building Code 2025 edition;
J. California Green Building Standards Code 2025 edition;
K. California Referenced Standards Code 2025 edition;
L. California Administrative Code 2025 edition;
M. International Property Maintenance Code 2024 Edition
N. Uniform Code for the Abatement of Dangerous Buildings 1997 edition;
O. City of Adelanto Municipal Code

<u>Soils Investigation/Report Requirements required for:</u>

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

<u>A soils investigation is not required for:</u>

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 7-22 CRC)

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

Wind – Nonresidential (ASCE 7-22 CBC)

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

(Special Wind Region uses 120 mph)

Seismic

Site Accelerations S_{DS} and S_{D1} shall be site specific and be determined per USGS Design Maps utilizing 2024 IBC or ASCE 7-22 values using Site Class D.
Design Ground Motions | U.S. Geological Survey

Snow Loads

Ground: 16 PSF

Rain

15 min: 2.31 in./h
60 min: 0.97 in./h

Climate Zone

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

Ambient Dry Bulb Low Temperature

30 °F

Ambient Dry Bulb High Temperature

98 °F

For questions about the required design criteria, please contact the City of Adelanto Building and Safety Department.